# POOL TECHNOLOGY

PRODUCT CATALOG 2021/2022

MULTIPORT VALVES

SYSTEM &
SALT ELECTROLYSIS

HEAT PUMPS &
DRYER

FILTER & PUMPS

POOL CLEANING

SWIMMING POOL
EQUIPMENT

MOUNTING PARTS

LIGHTING

FITTINGS &
INSTALLATION ACCESSORIES

SWIMMING POOL
EQUIPMENT

# Welcome to MIDAS.

*Your satisfaction is our mission!*

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Dear customers,

This summer season has been like no other!
Due to recent events, 2020 was a tumultuous start for many, and the pool industry was no exception. It was thanks to our loyal partnerships and long standing clients, that MIDAS not only managed to maintain its course in this uncertain period, but we came out stronger than before!
Our resilient company culture, our growing team and our new leadership continue to assist you with a reliable, fast and personal service. Order today and get your products shipped shortly!

Our passion is your passion: to build your customer´s dream - a place where they can relax, reconnect and have fun. For that, we have a broad product range which keeps advancing on a technological level, a bigger sales department which can answer your questions and assist you in choosing the right products and a growing after-sales department, so that you can rely on our assistance and guidance years after your purchase!

Which products are new in 2020? Take a look at our premium products on next pages, such as:

- MIDA.Globe as a premium filter according to DIN EN16173
- MIDA.Rock as a high-quality GRP filter container
- MIDA.Sin Salt Easy as an extension to the MIDA.Sin Salt
- pH dosing system
- Dosing station flocculation
- Inlet nozzle according to DIN EN Norm 16582-1,
- MIDA.Fix Adriatic Blue

and much more

What else has changed? Our leadership! We welcome our new managing director, Marco Schneider, on board. His energy and commitment to the company is invaluable and he has been at the forefront of our sales department since 2014. Together, we set out new ambitious goals and look forward to collaborating with you in 2021!

Best greetings from MIDAS-Team

Sincerely,

Yours Elena Jakobson
Managing director

Yours Marco Schneider
Managing director

# YOUR PERSONALLY CONTACT

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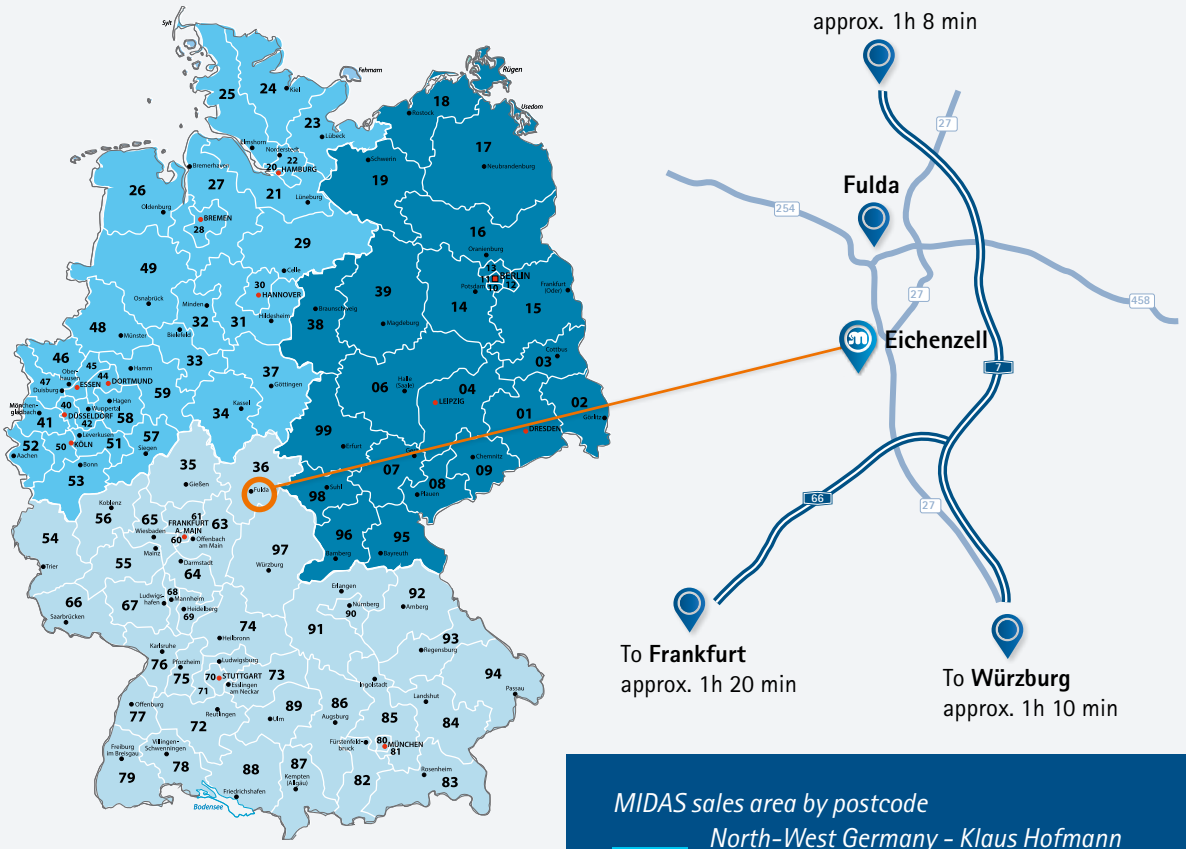
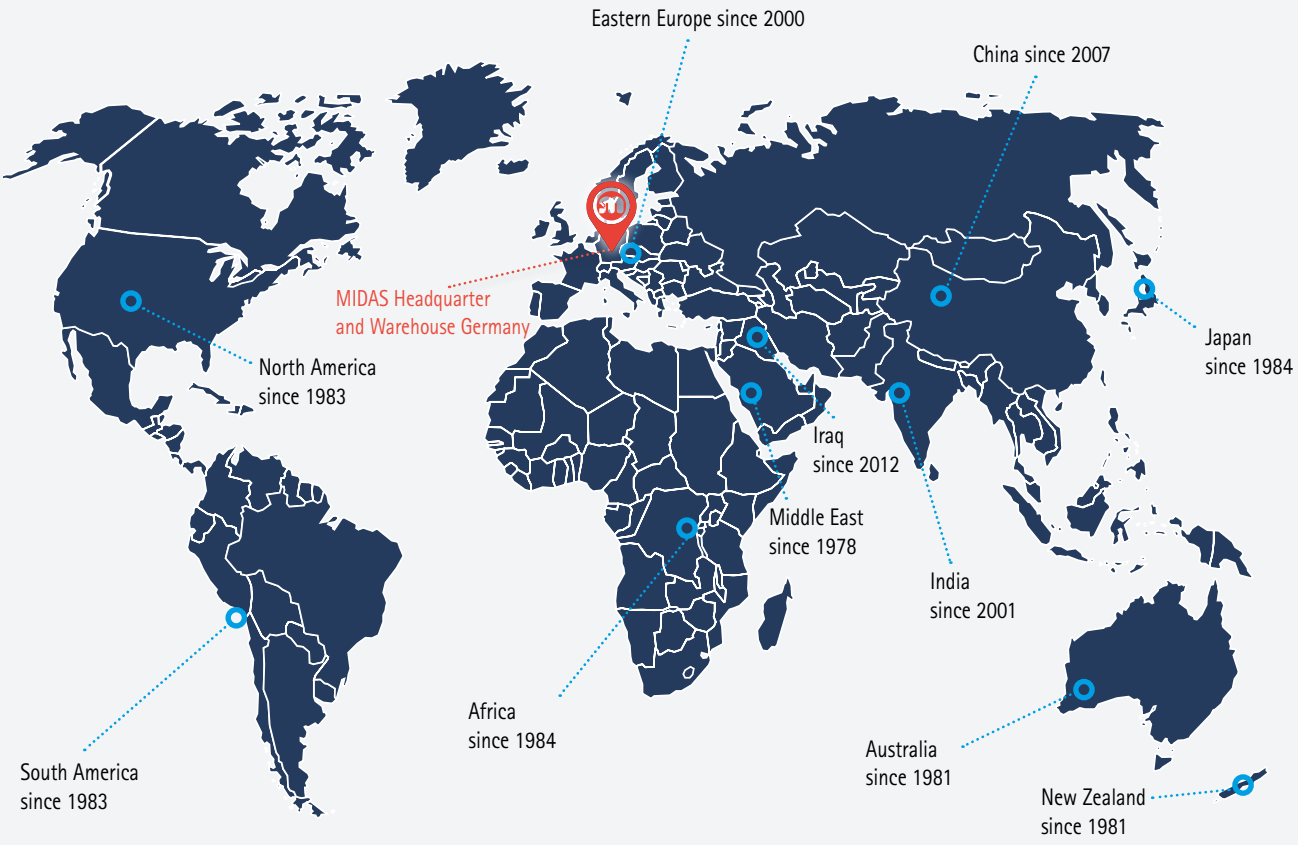
# HOW TO FIND US

MIDAS headquarters are located in the industrial area of Eichenzell (Rhein-Main region) – in the heart of Germany. The proximity to the economic and financial center Frankfurt/Main and its international airport allows us to ensure the best customer service with fast, reliable and worldwide delivery.



# MIDAS WORLDWIDE

From Eichenzell over Germany and Europe to the whole world. We distribute our products worldwide in over 90 countries. Wherever you are, we support you with knowledge, power and passion.




With an elephant labeled products are of or produced for MIDAS Pool Products GmbH.

Marking for dangerous goods

NEW

New Products

Freight intensive
Different freight costs

Sales only through specialist dealers

Acceptance **only** in full Packing units

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Automatic backwash valves
Hydraulic safety valve, automatic motorized
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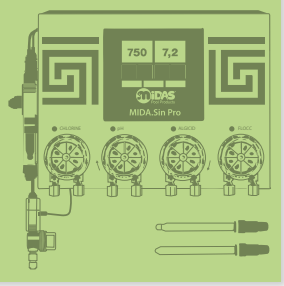
Manual 6-way-valves – TOP MOUNT
Manual multiport 6-way-valves – TOP MOUNT
Manual multiport 6-way-valves – SIDE MOUNT

01

## Dosing Systems & Salt Electrolysis

Measure- and dosing systems
Salt electrolysis & accessories
Optional equipment and spare parts
Pool salt
Chemistry and buffer solutions
UV-C disinfection system

02




## Water Heating & Dehumidifiers

Heat pumps
Equipment for heat pumps
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03

## Dosing Systems & Salt Electrolysis

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04

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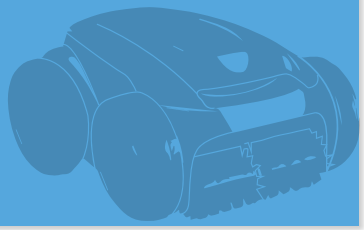
05



## Swimming pool equipment

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Skimmer ABS
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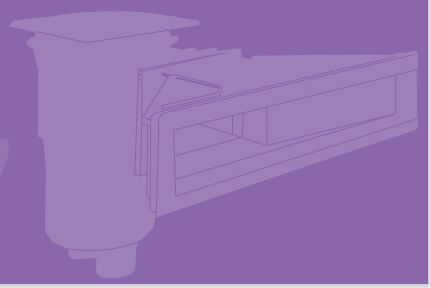

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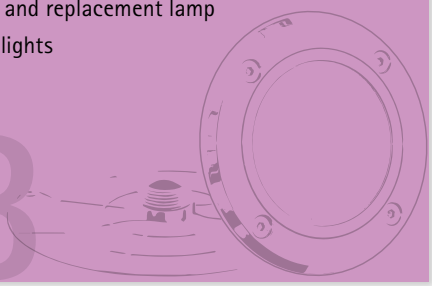

08

# Fittings & Installation accessories

Rotary disc valves
MIDAS 2- or 3-ways ball valves
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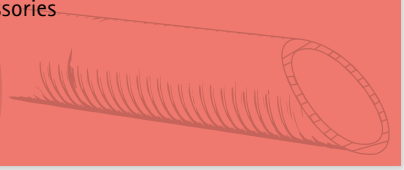
PVC-U assortement
Flanges, sealings
Flexible hoses
Pipes
Glue, cleaner, accessories



09

# Spare Parts

Valves
Heat pumps
Filters
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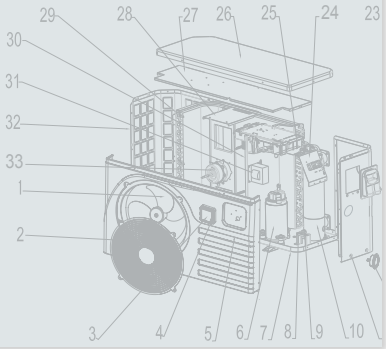
Rotary disc valve

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# 01

# VALVES

*MIDAS and its 6-way valves have been in harmony for more than 45 years. Since then, a lot of water has flowed through our valves worldwide. It could be a sea or ocean as a whole and our valves hold and make their contribution to clean water. The versions in all necessary sizes from 1½ "to 3", side-mount or top-mount, manual or half-automatic, remain constant. The Besgo rod valves in sizes 1 ½ inches and 2 inches complete the MIDAS valve range.*

## OVERVIEW


| | |
|---|---|
| 10 | MIDA.Mat Full automatic backwash valve |
| 11 | Half automatic backwash valves 1½" and 2" |
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# FULL AUTOMATIC BACKWASH VALVE

## MIDA.Mat

**AUTOMATIC BACKWASH VALVE MIDA.Mat:**

- ✓ innovative and trendsetting MIDAS-Development – including more than 40 yeas of experience
- ✓ the MIDA.Mat regulates filtering, backwashing, afterrinsing and draining itself
- ✓ circulation: countdown up to 3 days!
- ✓ digital filter control – up to 2 times a day
- ✓ individually programmable times for operating and backwashing the filter
- ✓ backwash: controlled by time AND pressure
- ✓ pressure setting via electronic controlled sensor – precision 0,1 bar
- ✓ battery operation in case of power cut – no emptying of the pool
- ✓ automatic stop of the pump before position change
- ✓ operation log
- ✓ error memory
- ✓ digital display
- ✓ real-time clock
- ✓ suitable for all MIDAS 1½" and 2" classic line valves (color: white or black)
- ✓ shock-resistant, splash-proofed housing (IP 65)
- ✓ regulation of several valves with one control possible
- ✓ easy to install
- ✓ the ideal technology for satisfied pool customers
- ✓ available in 85–264 VAC, 47–440 Hz
- ✓ working pressure: 1½" valves 1,5 bar
  2" valves 2 bar

✓ **MIDA.Mat**
**The clever and perfect solution for each pool(-professional)!**

digital display

| Function | Full automatic | Half automatic |
|---|---|---|
| Automatic filter | ✓ | ✓ |
| Automatic backwash | ✓ | ✓ |
| Automatic rinse | ✓ | ✓ |
| Free programmable times | ✓ | – |
| Pressure control mechanically | – | ✓ |
| Pressure control electronic | ✓ | – |
| Timed backwashing | ✓ | – |
| Backwashing pressure controlled | ✓ | ✓ |
| Autom. stop of the pump before position change | ✓ | ✓ |
| Relay and timer | – | ✓ |
| Circulation: countdown up to 3 days | ✓ | – |
| Battery operation during power failure | ✓ | – |
| Digital display | ✓ | – |
| Operation log | ✓ | – |
| Error memory | ✓ | – |
| Real-time clock | ✓ | – |
| Control of multiple valves | ✓ | – |
| Invididual special made solutions possible | ✓ | ✓ |

| Article | Packing | Code | kg |
|---|---|---|---|
| 1½" Side Mount #310-3T*, color: white | 1 | 310-MA | 4,3 |
| 1½" Side Mount #310-3TSB*, color: black | 1 | 310-MA-1 | 4,3 |
| 2" Side Mount #320-3T*, color: white | 1 | 320-MA | 7,8 |

Always install horizontally.
Backwashing and emptying required, emptying via channel button.

* The explanation of the valves can be found from page 96

# HALF AUTOMATIC BACKWASH VALVES

- automatic rear and rinsing – adjustable backwash and rinse time (backwash: 0.5-4.0 min. rinse: 20-40 sec.)
- pressure-controlled – mechanical sensor
- optional in the cycle of 7 days
- automatic stop of the pump before position change
- relay and timer
- easy to install
- shock-resistant, splash-proofed housing (IP 65)
- available in 115/230 Volt, 50/60Hz
- working pressure: 1½" valves 1,5 bar, 2" valves 2 bar

new display

**1½" SIDE MOUNT #310-A**

**2" SIDE MOUNT #320-A**

| Article | Packing | Code | kg |
|---|---|---|---|
| 1½" Side Mount #310-3T, color: white | 1 | 310-AN | 4,3 |
| 1½" Side Mount #310-3TSB, color: black | 1 | 310-ANB | 4,3 |
| 2" Side Mount #320-3T, color: white | 1 | 320-AN | 5,8 |
| 2" Side Mount #320-3TSB, color: black | 1 | 320-ANB | 5,8 |

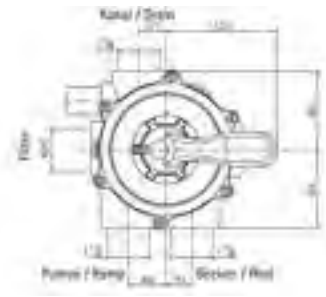
## HYDRAULIC SAFETY VALVE IN THE DRAIN

Pipe connections: Ø 50 mm adhesive connection; voltage: 24 VAC;
current consumption: 0.125 A; working pressure: 0.2-3 bar; flow: 0.5 $m^3/h$ -14 $m^3/h$

| Article | Packing | Code | kg |
|---|---|---|---|
| Hydraulic safety valve | 1 | 303 | 0,5 |

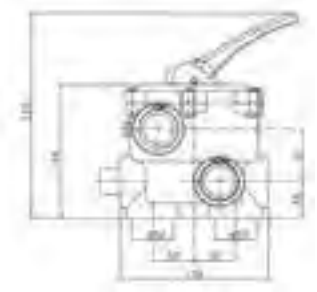
# MANUAL 6-WAY-VALVES

## SIDE MOUNT, SCREW ON TOP



### 1½" 6-WAY-VALVE

SIDE MOUNT - CLASSIC LINE



1½" SIDE-MOUNT valve classic generation, ABS material (cycolac) with slip or threaded connections.

- all-open-type with 2 plugs
- working pressure: 1,5 bar
- flow rate: 9,7 m³/h at 0,4 bar
- color: white or black

#310-3T

#310-3TSB

#310-OT

| Article | Packing | Code | kg |
|---|---|---|---|
| 3T-Model threaded | 6 | 310-3T | 1,83 |
| 3S-Model slip | 6 | 310-3S | 1,83 |
| 2 x adhesive & 3 x thread, color: black | 6 | 310-3TSB | 1,83 |
| OT-Model ALL-OPEN. threaded | 6 | 310-OT | 2,00 |
| OS-Model ALL-OPEN. slip | 6 | 310-OS | 2,00 |

### 1½" 6-WAY-VALVE-SET

INCLUSIVE PIPING* - CLASSIC LINE

1½" SIDE-MOUNT valve (#310-3TSB) with complete 50 mm tubing set (not glued), including 2 union nuts 2".

- 2 slip connections to the filter
- 3 threaded connections rest
- working pressure: 1.5 bar
- flow rate: 9.7 m³/h at 0.4 bar
- color: black

**FOR FILTER MIDA.Carbon 500 und 600**

Distance between the connections: 12,5 cm

| Article | Packing | Code | kg |
|---|---|---|---|
| Valve 1 ½": 50 mm to the filter, 3x 1 1/2" thread | 6 | 310-C | 1,83 |
| Valve 2": 63 mm to the filter, 3x 2" thread | 6 | 320-C | 2,33 |

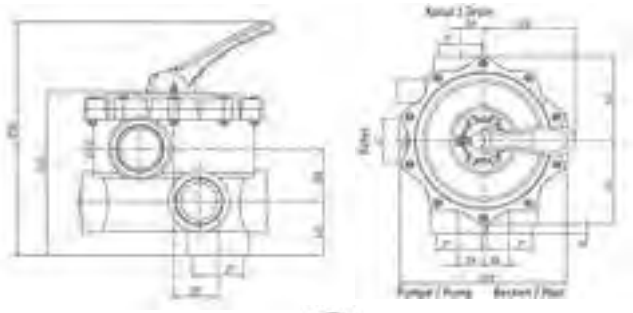
* not glued

## 2" 6-WAY-VALVE

SIDE MOUNT - CLASSIC LINE

2" SIDE-MOUNT valve classic generation, ABS material (cycolac) with slip or threaded connections.

- all-open-type with 2 plugs
- working pressure: 2 bar
- flow rate: 16 $m^3$/h at 0,2bar
- color: white or black



#320-3T

#320-0S

#320-0T

#320-3TSB

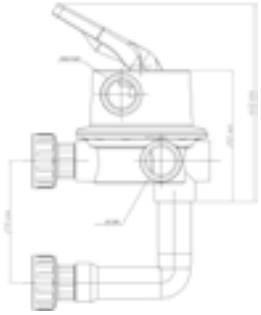
| Article | Packing | Code | kg |
|---|---|---|---|
| 3T-Model threaded, Color white | 6 | 320-3T | 3,17 |
| 3S-Model slip, Color white | 6 | 320-3S | 3,17 |
| 3S-Model slip, Color black | 6 | 320-3SB | 3,17 |
| 0T-Modell ALL-OPEN. threaded, Color white | 6 | 320-0T | 3,17 |
| 0S-Modell ALL-OPEN. slip, Color white | 6 | 320-0S | 3,17 |
| 2 x adhesive & 3 x thread, Color: black | 6 | 320-3TSB | 3,17 |

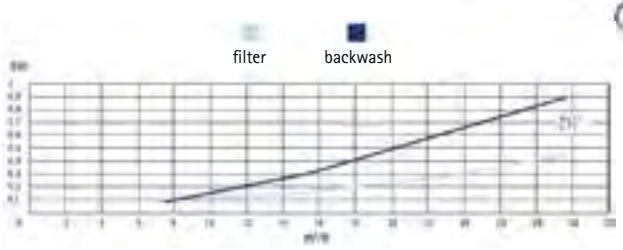
## 2½" 6-WAY-VALVE

SIDE MOUNT - MODERN LINE

ABS fibreglass reinforced. 2½" threaded connections. Complete with piping set: piping, bulkhead fittings & o-rings. Distance between connections 27 cm.

- working pressure: 2,5 bar
- flow rate: 27 m3/h at 0,4 bar
- color: black






| Article | Packing | Code | kg |
|---|---|---|---|
| 2½" -Model threaded | 1 | SM-25 | 10,00 |

# FIBERGLAS REINFORCED
# SIDE MOUNT, SCREW ON TOP

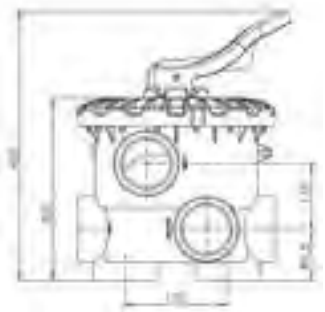
#331-OT

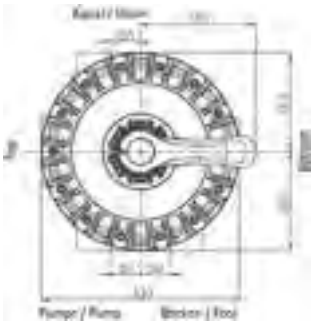
## 3" 6-WAY-VALVE

SIDE MOUNT - MODERN LINE

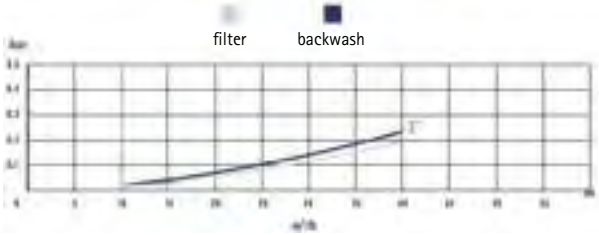
ABS fiberglass-reinforced! All-Open with 2 plugs, 3" threaded connection. Designed for swimming pool application only.

- connection system with screws in stainless steel
- EPDM o-rings
- working pressure: 3,5 bar
- color: black





### Performance diagram 3" 6-way-valves



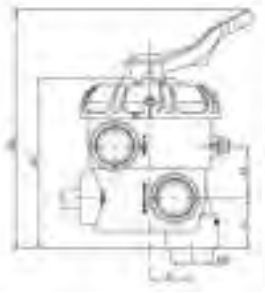

| Article | Packing | Code | kg |
|---|---|---|---|
| 3"- Model threaded | 1 | 331-OT | 10,00 |

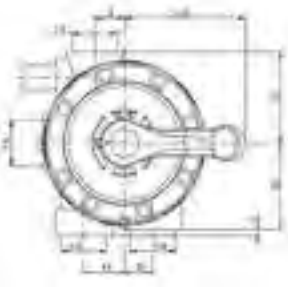
# SIDE MOUNT, BAYONET CATCH – EASY TO OPEN

## 1½" 6-WAY-VALVE SIDE MOUNT - MODERN LINE

1½" SIDE-MOUNT High-Tech Generation, ABS material (cycolac). Bayonet-catch-type lid for quick and easy opening. With 1½" threaded connections. Model "ST" with Ø 50 mm slip connection to the filter, other connections 1½" threaded.

- working pressure: 1,5 bar
- flow rate: 9,7 m³/h at 0,4 bar
- color: white or black





#315-WST

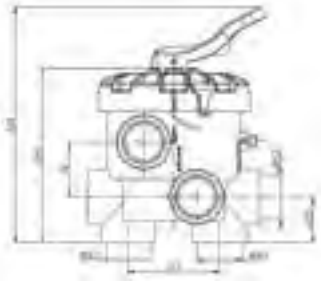
| Article | Packing | Code | kg |
|---|---|---|---|
| 1½" threaded; color: white | 6 | 315-W | 1,83 |
| 1½" threaded; color: black | 6 | 315-3T | 1,83 |
| 2 x slip & 3 x threaded; color: white | 6 | 315-WST | 1,83 |
| 2 x slip & 3 x threaded; color: black | 6 | 315-ST | 1,83 |

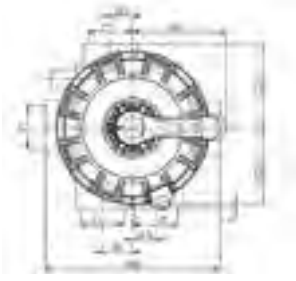
#315-ST

## 2" 6-WAY-VALVE SIDE MOUNT - MODERN LINE

2" SIDE-MOUNT High-Tech Generation, ABS material (cycolac). Bayonet-catch-type lid for quick and easy opening. With 2" threaded connections. Model "ST" with Ø 63 mm slip connection to the filter, other connections 2" threaded. Incl. key for opening.

- working pressure: 2 bar
- flow rate: 16 m³/h at 0,2 bar
- color: white or black





#325-WST

| Article | Packing | Code | kg |
|---|---|---|---|
| 2" threaded, color: white | 6 | 325-W | 3,50 |
| 2" threaded, color: black | 6 | 325-3T | 3,50 |
| 2 x slip & 3 x threaded, color: white | 6 | 325-WST | 3,50 |
| 2 x slip & 3 x threaded, color: black | 6 | 325-3ST | 3,50 |

key for opening

# TOP MOUNT, SCREW ON TOP

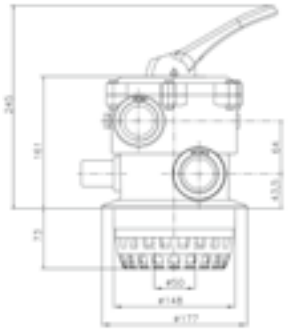
#313-S

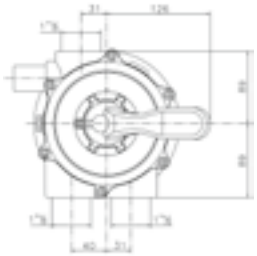
## 1½" 6-WAY-VALVE

TOP MOUNT - CLASSIC LINE

1 ½" TOP-MOUNT valve,
ABS material (cycolac),
1½" threaded connection.
Clamp set of reinforced incl.
bolts, nuts & o-ring.

- clamp Ø 177 mm
- working pressure: 1,5 bar
- flow rate: 8,2 m³/h at 0,4 bar
- color: white





| Article | Packing | Code | kg |
|---|---|---|---|
| 1½" 6-Way-Valve, Top Mount | 6 | 313-S | 2,50 |

#313-L

## 1½" 6-WAY-VALVE

TOP MOUNT

1½" TOP-MOUNT valve, as above,
but with large clamp Ø 208 mm.

- working pressure: 1,5 bar
- flow rate: 8,2 m³/h at 0,4 bar
- color: black

| Article | Packing | Code | kg |
|---|---|---|---|
| 1½" 6-Way-Valve, Top Mount | 6 | 313-L | 2,83 |

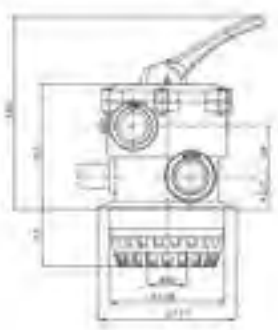
#312-TU/312-TB

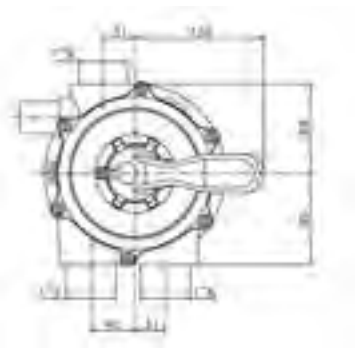
## 1½" 6-WAY-VALVE

TOP MOUNT

1½" TOP-MOUNT valve,
6" unified or buttress,
1½" threaded connection.

- o-ring
- working pressure: 1,5 bar
- flow rate: 8,2 m³/h at 0,4 bar
- color: white





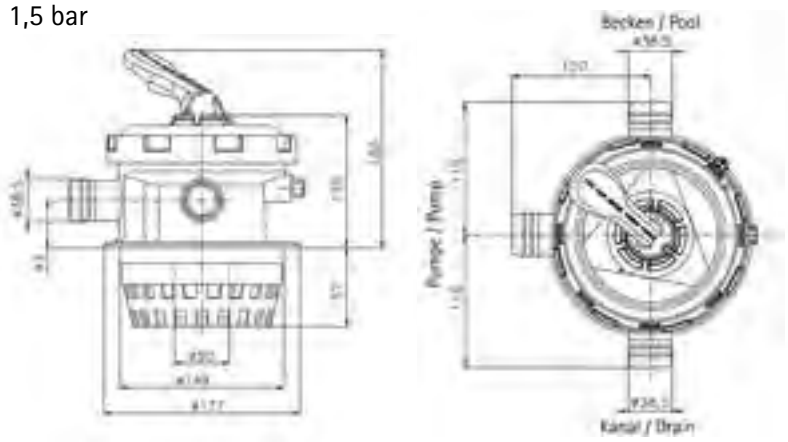
| Article | Packing | Code | kg |
|---|---|---|---|
| 6" unified | 6 | 312-TU | 2,17 |
| 6" buttress | 6 | 312-TB | 2,17 |

## 1½" 6-WAY-VALVE

TOP MOUNT - MODERN LINE, HOSE CONNECTION

1½" TOP-MOUNT high-tech generation valve.
"Mini". Perfect for above-ground pools.

- 38 mm hose connection
- clamped-on Ø 177 mm incl. bolts, nuts & o-ring
- flow rate: 8,2 m³/h at 0,4 bar
- working pressure: 1,5 bar
- color: black



#308-S

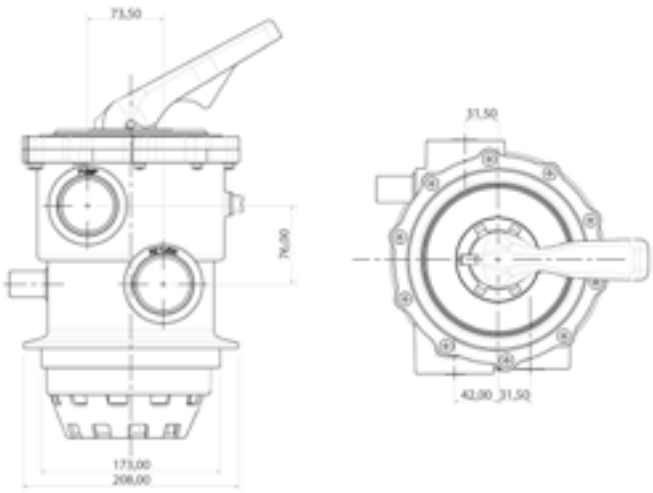
| Article | Packing | Code | kg |
|---|---|---|---|
| 6-Way-Valve, Mini Top Mount | 6 | 308-S | 1,70 |

## 2" 6-WAY-VALVE

TOP MOUNT - MODERN LINE

2" TOP-MOUNT-Valve, ABS (cycolac).
Clamp set incl. bolts, nuts & o-ring.

- clamp Ø 208 mm
- working pressure: 2 bar
- flow rate: 13 m³/h at 0,2 bar
- color: black



#322-AU-MET

| Article | Packing | Code | kg |
|---|---|---|---|
| 2" 6-way-valve, Top Mount, metric | 3 | 322-AU-MET | 7,34 |

# TOP MOUNT,
# BAYONET CATCH – EASY TO OPEN

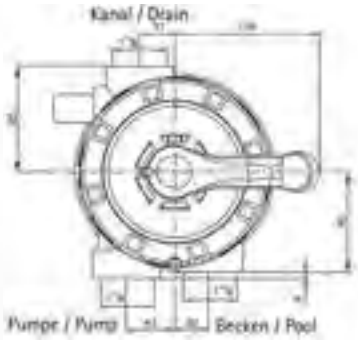
#317-S

## 1½" 6-WAY-VALVE

TOP MOUNT - MODERN LINE, SCREW CONNECTION

1 ½" TOP-MOUNT high-tech generation valve with Bayonet-catch-type lid for quick and easy opening. 1½" threaded connection. Clamp set incl. bolt, nuts & o-ring.

- clamp Ø 177 mm
- working pressure: 1,5 bar
- flow rate: 8,2 m³/h at 0,4 bar
- color: black




| Article | Packing | Code | kg |
|---|---|---|---|
| 1½" 6-Way-Valve, Top Mount | 6 | 317-S | 2,17 |

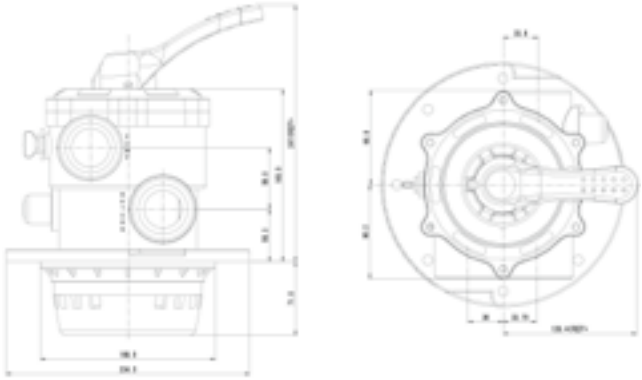
# TOP MOUNT, SCREW ON TOP

## 1 ½" MULTIPORT 6-WAY-VALVE

TOP MOUNT

ABS bolted, screw connection. Clear sight glass for backwash inspection.

- working pressure 2,2 bar
- flow rate: 9,1 $m^3$/h at 0,5 bar
- color: white



316

Pict. shows accessories

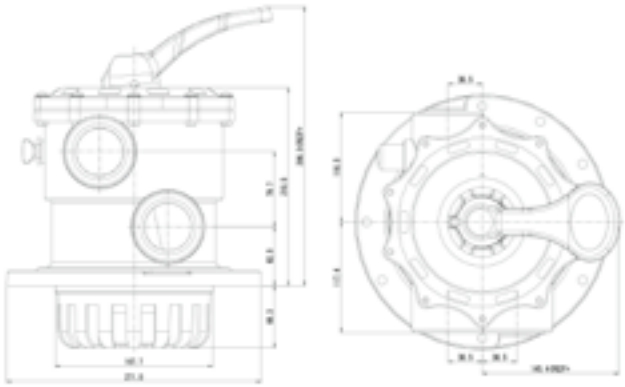
| Article | Packing | Code | kg |
|---|---|---|---|
| 1½" Top Mount Multiport Valve (240 x 240 x 310 mm) | 1 | 316 | 2,6 |
| Union-Set (screw, nut, fitting) | 1 | 316-E30 | 0,2 |
| Manometer ¼", 0–3 bar | 1 | MM-E1 | 0,2 |

## 2" MULTIPORT 6-WAY-VALVE

TOP MOUNT

ABS bolted, screw connection. Clear sight glass for backwash inspection.

- working pressure 2,2 bar
- flow rate: 19,6 $m^3$/h at 0,6 bar
- color: white



Pict. shows accessories

| Article | Packing | Code | kg |
|---|---|---|---|
| 2" Top Mount Multiport Valve (290 x 290 x 400 mm) | 1 | 326 | 3,8 |
| Union-Set (screw nut, fitting) | 1 | 326-E30 | 0,2 |
| Manometer ¼", 0–3 bar | 1 | MM-E1 | 0,2 |

# SIDE MOUNT, SCREW ON TOP

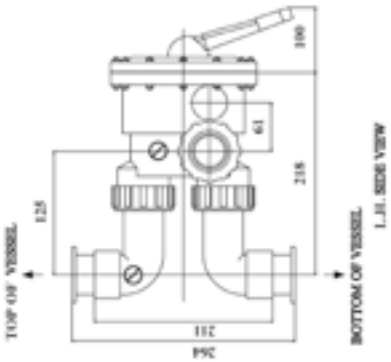
- inlet / outlet & to vessel top & bottom: 1½" BSPM union ends / 2" BSPM union ends
- pressure gauge & sampling points on: ¼" BSPF
- re-gene rant suction tubing size: ¾" WBSPF
- injector ratio: 1:1
- black injector suction rate: 750 lph.
- maximum operating pressure: 5 kg/cm²
- minimum pressure for uniform suction: 2 kg/cm²
- color: black

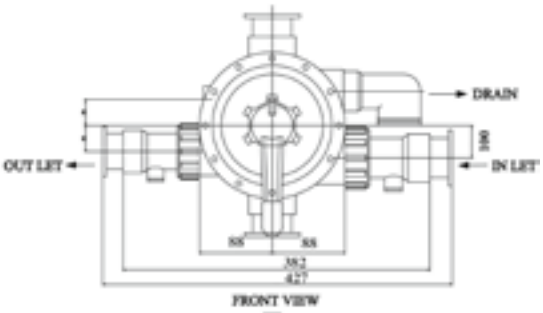
## 1½" MULTIPORT VALVE

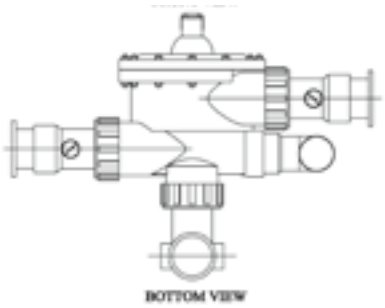
SIDE MOUNT - PRESSURE-SETTING PLASTIC MATERIAL

- flow rate: 10 – 12 m³/h
- maximum flow: 15 m³/h

| Article | Dimensions (L x W x H) | Packing | Code | kg |
|---|---|---|---|---|
| 1½" Side Mount Multiport Valve | 352 x 330 x 340 mm | | 318 | 2 |



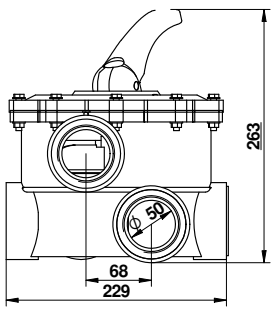



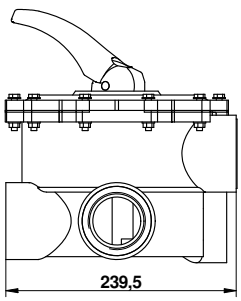
## 2" MULTIPORT VALVE

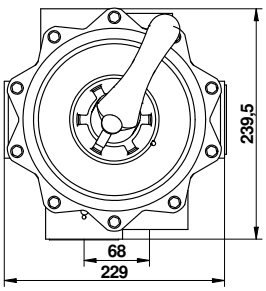
SIDE MOUNT - PRESSURE-SETTING PLASTIC MATERIAL

- flow rate: 20 m³/h
- maximum flow: 30 m³/h

| Article | Dimensions (L x W x H) | Packing | Code | kg |
|---|---|---|---|---|
| 2" Side Mount Multiport Valve | 239,5 x 229 x 263 mm | | 328 | 2,5 |



# SIDE MOUNT, SCREW ON TOP

Made in Germany

## 4" 6-WAY-VALVE

SIDE MOUNT – MODERN LINE

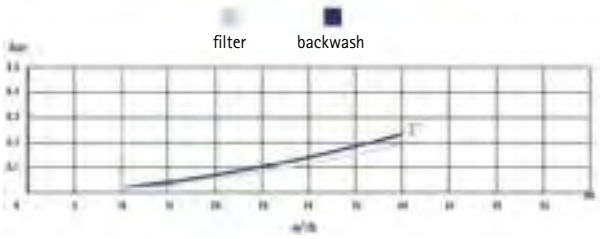
4" 6-way-valve are extremely pressure resistant, making them an ideal choice for public swimming pools. Spider gasket as part of disc.
New position-selecting configuration, threaded connections. ALL-OPEN with 2 plugs for flexible installation. Ozone-resistant by temperature up to 40°C.

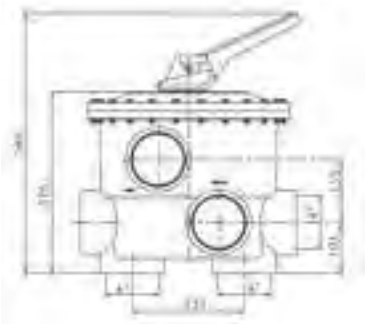
- working pressure: 3,5 bar = 49,75 PSI
- flow rate: 104 m³/h=458 GPM at 0,4 bar = 5,7 PSI,
- color: black

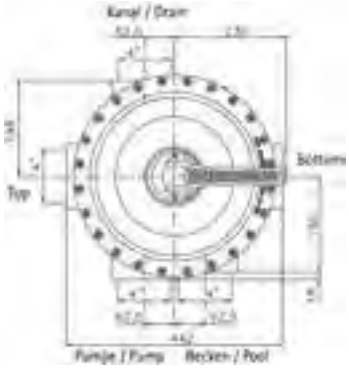
The 4" valve has a decisive advantage over the conventional gate valve system:

- ✓ faster & easier to install
- ✓ better overview of position selection, handling & maintenance
- ✓ less leakage possibilities than 5 gate valves
- ✓ less mistake rate of operating staff by service: closing or opening the wrong gate valve
- ✓ "RINSE" position

### Performance diagram 4" 6-way-valves





| Article | Packing | Code | kg |
|---|---|---|---|
| 4"-threaded | 1 | 380-OT | 18,00 |

## ADAPTER SYSTEM

4" adaptors with o-rings built-in can be supplied optionally and offering many advantages over using TEFLON tape: simpler and quicker assembly, better tightness.

| Article | Packing | Code | kg |
|---|---|---|---|
| 4"/110 mm "Metric" | 5 | 380-E20 | 0,70 |

02

# AUTOMATIC DOSING SYSTEMS & SALT ELECTROLYSIS

*The trend of salt electrolysis continues. The production of chlorine, coupled with exact dosage, is one of the key products for clean and clear water in the pool. We have environmentally friendly and modern devices for sterilizing and disinfecting and controlled dosing.*
*These include the easy-to-use measuring and control units with colored and comfortable touch displays, salt electrolysis / hydrolysis and oxygen disinfection systems, as well as all expansion modules.*
*There are also complete and compact systems for pool control and water treatment listed in this chapter.*

## OVERVIEW


| | |
|---|---|
| 24 | Quick Overview measuring and control units |
| 26 | Measuring and control unit MIDA.Sin Pro Oxygen |
| 28 | Measuring and control unit MIDA.Sin Pro |
| 30 | Measuring and control unit MIDA.Sin |
| 32 | pH dosing system and dosingstation flossulation |
| 34 | Salt electrolysis MIDA.Sin Salt |
| 36 | Optional equipment and spare parts MIDA.Sin Pro Oxygen, MIDA.Sin Pro, MIDA.Sin, Mida.Sin Salt |
| 42 | Salt electrolysis MIDA.Oxi |
| 44 | Optional equipment and spare parts MIDA.Oxi |
| 48 | Salt electrolysis / Hydrolysis MIDA.Low Salt |
| 50 | Salt electrolysis MIDA.Salt |
| 52 | Optional Equipment and spare parts MIDA.Low Salt, MIDA.Salt |
| 53 | Pool salt |
| 54 | Chemistry and buffer solutions |
| 55 | UV-C disinfection system |

# QUICK OVERVIEW MEASURING AND CONTROL UNITS

## STANDARD EQUIPMENT FOR MIDA.SIN Pro Oxygen, MIDA.Sin Pro, MIDA.Sin & MIDA.Sin Salt:

- Measuring and control device
- Long Life pH probe
- Electrical flow monitor including pre-filter
- Reductions 50 mm x ¼" IT for injection valves, Immersion sleeve and measuring water shut-off cocks 6 x 4 mm
- Suction feet for container removal
- Screws and dowels for wall mounting
- extensive and detailed manual
- WEEE reg. No. for recycling of old devices is requested

# VERGLEICHSTABELLE

| | MIDA.Sin Salt | MIDA.Sin Pro Oxygen | MIDA.Sin Pro | | MIDA.Sin | | | |
|---|---|---|---|---|---|---|---|---|
| | #30020VS | #30012VS | 30010VS | 30011VS | #30015 | #30016 | #30017 | #30018 |
| **Procedure** | Salt electrolysis | chlorine free | Liquid chlorine | | | | | |
| max. pool size | 75 m³ | 250 m³ | 250 m³ | 250 m³ | 250 m³ | 250 m³ | 250 m³ | 250 m³ |
| Size color touch Display | 5,7" | 5,7" | 5,7" | 5,7" | 3,5" | 3,5" | 3,5" | 3,5" |
| number eristaltic metering pump | 2 | 4 | 4 | 4 | 2 | 2 | 2 | 2 |
| pH measurement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Redox measurement (mv) | - | - | ✓ | - | ✓ | ✓ | - | - |
| free chlorine measure-ment (mg/l) | ✓ | - | - | ✓ | - | - | ✓ | ✓ |
| Salt measurement | ✓ | - | - | - | - | - | - | - |
| Measurement Water temperature | ✓ | ✓ | ✓ | ✓ | - | ✓ | - | ✓ |
| | | | | | | | | |
| pH dosage | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Chlorine dosage | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Chlorine dosage | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| Flocculation dosage | - | ✓ | ✓ | ✓ | - | - | - | - |
| Oxygen dosage | - | ✓ | - | - | - | - | - | - |
| | | | | | | | | |
| LAN connection | ✓ | ✓ | ✓ | ✓ | - | ✓ | - | ✓ |
| Water temperature sensor including immersion sleeve | ✓ | ✓ | ✓ | ✓ | - | ✓ | - | ✓ |
| Filter control | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| Backwash (Besgo) | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| Heating control | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| Level control | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| Frost protection | ✓ | ✓ | ✓ | ✓ | - | - | - | - |

# General description for MIDA.Sin Pro Oxygen, MIDA.Sin Pro & MIDA.Sin Salt

- **Compact measuring and control system with integrated probe holders and dosing pumps, 230 V, Degree of protection IP30**
- **Incl. Pool management system, controls the following components:**
  - Filter pump (230 V via socket attached to the device) and frequency-controlled pumps (Speck, Pentair, Hayward, DAB E.Swim), as well as 400 V via on-site relay
  - Backwash with Besgo rod valve
  - heating control (heat pump, heat exchanger, electric heater)
  - Level control (optional water level probe is required, see catalog page 36)
  - Frost protection (optional air temperature thermometer is required, see catalog page 36)
  - **incl. NET:** With LAN connection for remote querying of the water values (no change) via browser or app or external touch display (optional). There is a safe Communication without possible interference compared to WiFi connections. The Pool Live app shows the water values in real time, error messages and the fill levels of the container. The web application shows all parameters through clear graphics, as well as a detailed history. The data is recorded for 30 days. There is an external 7" touch display for wall mounting to display the water values, Temperature and humidity are optionally available (see catalog page 36).

**Benefits:**

- User-friendly, intuitive menu navigation using a 5.7" color touch display
- Easy installation and retrofitting possible for any existing system!
- Including flow monitor with pre-filter (safety shutdown if there is no flow)
- high quality dosing pumps (max. 3.6 l / h) with minimal maintenance
- Measuring and regulating the pH value (pH- or pH +, with MIDA.Sin Pro Oxygen and MIDA.Sin Pro both possible at the same time)
- Additional dosage of algicide to support disinfection and to prevent the formation of algae
- Additional dosing of flocculant for crystal clear water (only with MIDA.Sin Pro Oxygen and MIDA.Sin Pro)
- high quality glass probe with 2 year guarantee
- further safety devices (dosing time delay, overdosing, max. hourly dosing, too fast of pH changes and max. doses without feedback from the probe)

App view: *

Browser view: **

* Level control of the container is calculated (no level measurement), accuracy +/- 10% (max.)
Sample view MIDA.Sin Salt

** Saves the data for 30 days and export of the data as a csv file is possible

# MEASURING AND CONTROL UNIT

## MIDA.Sin Pro Oxygen

The chlorine-free water treatment with pH and oxygen, which in connection with algicide and a special flocculant MIDA.Sin Floc + #C0005 (see catalog page 49) ensures crystal-clear and skin-friendly water. Particularly suitable for metal and stainless steel components in the pool when liquid chlorine is not required.

**Additional scope of delivery to the standard (see from catalog page 34):**
- 20 m measuring and dosing line PE ¼" / 6x4 mm with 4 injection valves ¼"

intuitive Touch screen display

2 YEARS WARRANTY ON PROBE *

#30012VS

* The service life can be influenced by water hardness, pollution and temperature etc.w

Customer photo: company „Der Poolbauer GmbH"

App view: *

* The level control of the container is calculated (no level measurement), accuracy +/- 10% (max.)

included ZPM

#30010-E17

Coagulation mixer ZPM

| Technical specifications | MIDA.Sin Pro Oxygen |
|---|---|
| Max. pool volume | 250 m³ |
| Display | colored 7" touch display, 6 languages (D, FR, GB, NL, RUS, CZ) |
| Power | 230 V / 50 Hz |
| Rate of consumption | 24 VA |
| Dimensions | 430 x 330 x 160 mm |
| Casing | stainless steel V2A / AISI 304 |
| Communication | LAN / RS485 |
| Output control | potential-free relay, max. 1A, max. 230V (Besgo, solenoid valve, refill, heating relay) |
| Input | 4-20 mA sensor input |
| Power consumption with filter pump | 1.449 VA |
| Pump connection | max. 1,49 kW / 230 V AC |
| Circulation pump connection | max. 230 V / 1 A, potential-free relay |
| Fuse | T800 mA, T160 mA, T6,3 A |
| Protection class | II |
| Protection | IP30 |
| Operating temperatur | +5°C bis +40°C |
| Install | Wall mounting |
| Dosing pump performance | 60 ml / min., max. 1 bar |
| Measuring water pressure | max. 1,5 bar |
| Weight | 6,2 kg |

| Article | Code |
|---|---|
| MIDA.Oxygen pH / oxygen NET | 30012VS |

Customer photo: company „Der Poolbauer GmbH"

## MIDA.Sin Pro

This liquid chlorine dosing system regulates the pH as well as the chlorine value.
The regulation of the chlorine occurs via the redox potential (mV) or the free chlorine content (mg / l).
In addition, algicide and a special flocculant MIDA.Sin Floc + #C0005
(see catalog page 49) for crystal clear water. The system can be switched between redox and free chlorine at any time and continue to dose even if the probe fails (disinfection ml / m³).

**Additional scope of delivery to the standard (see from catalog page 34):**
- Long Life probe redox or membrane-covered chlorine measuring probe
- 20 m measuring and dosing line PE ¼" / 6x4 mm with 4 injection valves ¼"

intuitive Touch screen display

2 YEARS WARRANTY ON PROBE *

#30010VS

* The service life can be influenced by water hardness, pollution and temperature etc.

Customer photo: company „Altenhofen Schwimmbad und Saunabau"

#30011VS

App view: *

* The level control of the container is calculated (no level measurement), accuracy +/- 10% (max.)

| Technical specifications | MIDA.Sin Pro |
|---|---|
| Max. pool volume | 250 m³ |
| Display | colored 7" touch display, 6 languages (D, FR, GB, NL, RUS, CZ) |
| Power | 230 V / 50 Hz |
| Rate of consumption | 24 VA |
| Dimensions | 430 x 330 x 160 mm |
| Casing | stainless steel V2A / AISI 304 |
| Communication | LAN / RS485 |
| Output control | potential-free relay, max. 1A, max. 230V (Besgo, magnetic valv, refilling, heating relay) |
| Input | 4-20 mA sensor input |
| Power consumption with filter pump | 1.449 VA |
| Pump connection | max. 1,4 kW / 230 V |
| Circulation pump connection | max. 230 V / 1 A, potential-free relay |
| Fuse | T800 mA, T160 mA, T6,3 A |
| Protection class | II |
| Protection | IP30 |
| Operating temperatur | +5°C bis +40°C |
| Install | wall mounting |
| Dosing pump performance | 60 ml / min., max. 1 bar |
| Measuring water pressure | max. 1 bar |
| Weight | 6,7 kg |

| Article | Code |
|---|---|
| MIDA.Sin Pro pH / Redox NET | 30010VS |
| MIDA.Sin Pro pH / Chlor NET | 30011VS |

## MIDA.Sin

Compact measuring, control and dosing system for liquid chlorine with control of the pH value and the chlorine value with integrated electrode holders and dosing pumps.
The chlorine value is regulated via the redox potential (mV) or the free chlorine content (mg / l). The system can be switched between redox and free chlorine at any time and continue to dose even if the probe fails (disinfection ml / m³).
These systems do not include a pool management system.

intuitive Touch screen display

2 YEARS WARRANTY ON PROBE *

#30015 + #30016

**Advantages:**

- User-friendly, intuitive menu navigation using a 35" color touch display
- Easy installation and retrofitting possible for any existing system
- Including flow monitor with prefilter (safety shutdown if there is no Flow)
- high quality metering pumps 3.6 l / h with minimal maintenance
- including measurement of the water temperature (only for NET systems)
- Dosing of pH- or pH +
- The system can be switched between redox and free chlorine at any time and continue dosing even if the probe fails (disinfection ml / m³)
- high quality glass probes with a 2 year guarantee*
- further safety devices (dosing time delay, overdosing, max.hourly dosing, pH changes and max. dosing without Feedback from the probe)

- **Optional NET:** With LAN connection for remote querying of the water values (no change) via browser or app or external touch display (optional). There is a safe communication without possible interference compared to WiFi connections.
The Pool Live app shows the water values in real time, error messages and the fill levels of the containers. The web application shows all parameters with clear graphics and a detailed history. The data is recorded 30 days.
An external 7" touch display for wall mounting to display the water values, temperature and humidity are optionally available (see catalog page 36)

* The service life can be influenced by water hardness, pollution and temperature etc.

**Delivery:**

- Measuring and control device
- Long Life probes pH and ORP or pH and membrane-covered chlorine probe
- Electrical flow monitor including pre-filter
- Temperature sensor including immersion sleeve (only with NET version!)
- 15 m measuring and dosing line PE ¼"/ 6 x 4 mm with 2 injection valves ¼"
- Reductions 50 mm x ¼" IG for vaccination tile and measuring water shut-off cocks 6 x 4 mm
- Suction feet for removing the container
- Screws and dowels for wall mounting
- extensive and detailed manual

#30017 + #30018

App view: *

* The level control of the container is calculated (no level measurement), accuracy +/- 10% (max.)

| Technical specifications | MIDA.Sin |
|---|---|
| Max. pool volume | 250 m³ |
| Display | colored 7" touch display, 6 languages (D, FR, GB, NL, RUS, CZ) |
| Power | 230 V / 50 Hz |
| Rate of consumption | 14 VA |
| Dimensions | 290 x 240 x 115 mm |
| Casing | ABS plastic |
| Communication | LAN optional |
| Fuse | T80 mA |
| Protection class | II |
| Protection | IP50 |
| operating temperatur | +5°C bis +40°C |
| Install | wall mounting |
| Dosing pump performance | 60 ml / min., max. 1 bar |
| Measuring water pressure | max. 1 bar |
| Weight | 2,2kg |

| Article | Code |
|---|---|
| MIDA.Sin pH / Redox | 30015 |
| MIDA.Sin pH / Redox NET | 30016 |
| MIDA.Sin pH / Chlor | 30017 |
| MIDA.Sin pH / Chlor NET | 30018 |

NEW

#30019

## pH dosing system

Compact unit for automatic measurement and control of the pH value according to the set target value with LED display, glass probe, integrated dosing pump 60 ml / min. (3.6 l / h), as well as 10 m measuring and dosing line ¼", measuring water shut-off cocks and injection valve, easy installation and simple operation via 4 buttons, for wall mounting, including safety shutdown, for pools from 1-250 m³ and Whirlpools, 230 V / 50Hz, protection class IP30

2 YEARS WARRANTY ON PROBE *

| Article | Code |
|---|---|
| pH dosing system | 30019 |

* The service life can be influenced by water hardness, pollution and temperature etc.

NEW

#30013

## Dosing station flocculation

Effective coagulation and flocculation can only be achieved through continuous dosing, which means that very small particles can be filtered.
This device is for dispensing MIDA.Sin Floc + #C0005 (see catalog page 49), but also designed for other flocculants.
Including LED display with setting of the dosing amount, integrated dosing pump 10 ml / min. (0.6 l / h), as well as 10 m dosing line ¼" and injection valve, for wall mounting.
Can be used as a supplement to MIDA.Sin and MIDA.Sin Salt, for pools of 1-250 m³, 230 V / 50Hz, protection class IP50

| Article | Code |
|---|---|
| Dosing station flocculation | 30013 |

# SALT ELECTROLYSIS SYSTEM

## MIDA.Sin Salt

Advanced salt electrolysis system (2-4 g / l salt content) with pH control, as well Chlorine production, which is regulated by the free chlorine content (mg / l).
In addition, algae can be added to support disinfection and prevent algae formation. The system also shows the salinity permanently
(kg / m³), not only when this is too low. The service life of the self-cleaning electrolysis cell is approx. 8,000 operating hours ** (vertical or horizontal installation).
The transformer is cooled by the measuring water.

intuitive Touch screen display

2 YEARS WARRANTY ON PROBE *

#30020VS

App view: *

* The level control of the container is calculated (no level measurement), accuracy +/- 10% (max.)

**Additional scope of delivery to the standard (see catalog page from 34 onwards):**

- Salt electrolyser with electrolysis cell
- Membrane-covered Long Life chlorine measuring probe
- new conductivity probe integrated in the flow monitor, for measuring the salinity in kg / m³
- 15 m measuring and dosing line PE ¼"/ 6 x 4 mm with 2 injection valves ¼"

**PLEASE NOTE:**
We do not recommend the use of salt electrolysis and hydrolysis in connection with stainless steel components. However, corrosion can be avoided if an optional sacrificial anode (see catalog page 38) is installed.

** The service life can be influenced by water hardness, pollution and temperature etc.

| Technical specifications | MIDA.Sin Salt |
|---|---|
| Max. pool volume | 75 m³ |
| Display | colored 7 "touch display, 6 languages (D, F, GB, NL, RUS, CZ) |
| Power | 230 V / 50 Hz |
| Rate of consumption | 190 VA |
| Dimensions | 450 x 330 x 190 mm |
| Casing | stainless steel V2A (304) |
| Communication | LAN / RS 485 |
| Output control | potential-free relay, max. 1A, max. 230 V (Besgo, magnetic valve, heating relay) |
| Input | 4-20 mA sensor input |
| Chlorine production at 4% salinity | 20 g/h |
| Operating hours of the electrolysis cell | 8.000 hours |
| Power consumption with filter pump | 1.840 VA |
| Pump connection | max. 1,4 kW / 230 V |
| Circulation pump connection | max. 230 V / 1 A, potential-free relay |
| Fuse | T800 mA, T125 mA, T6,3 A |
| Protection class | II |
| Protection | IP30 |
| operating temperatur | +5°C bis +40°C |
| Install | wall mounting |
| Dosing pump performance | 60 ml / min., max. 1,5 bar |
| Measuring water pressure | max. 1,5 bar |
| Weight | 10 kg |

| Article | Code |
|---|---|
| MIDA.Sin Salt pH / Chlor NET | 30020VS |

## MIDA.Sin Salt Easy

NEW

This system can be used as an extension of the MIDA.Sin Salt # 30020VS or used as a stand-alone electrolysis.
Including electrolysis cell 20 g / h and flow monitor with pre-filter.
The expansion is controlled via the MIDA.Sin Salt.
The maximum pool size increases by up to 75 m³ for each system.
2-core connection cable between Mida.Sin Salt and Mida.Sin Salt Easy optionally available (see catalog page 38).
This system can also be installed as an independent, unregulated unit.
Here the system works according to the settings of the percentage output (10-100%), which means that manual control of the chlorine content is necessary.
Including display of the production output in g / h and display of the Salt content (low, 2-5 kg / m³) or error message if there is no water flow.
230 V / 50Hz, protection class IP30

| Article | Code |
|---|---|
| MIDA.Sin Salt Easy | 30020-E2 |

# OPTIONAL ACCESSORIES AND SPARE PARTS

## FOR ALL SYSTEMS ON PAGES 24 – 33

### Long Life probes

**2 year warranty on probes ***

#30010-E1

#30010-E2

#30010-E3

Electrode plug head

| Article | Code |
|---|---|
| pH probe Long Life quality glass probe | 30010-E1 |
| Redox probe Long Life quality glass probe | 30010-E2 |
| Chlorine probe Long Life membrane probe made of titanium, silver and stainless steel | 30010-E3 |

### TECHNICAL SPECIFICATIONS

| description | pH | redox | free chlorine (CLF) |
|---|---|---|---|
| Probe type | Glass | Glass | Titanium stainless steel / silver / PET |
| Measuring range | 4-9 pH | 0-1000 mV | 0-5 mg/l |
| Measurement accuracy | 0,1 pH | 1 mV | 0–3 mg/l |
| Material | Ag/Cl | Ag/Cl | Ag/Pt |
| Probe holder | PG 13,5 | PG 13,5 | PG 13,5 |
| Additional equipment | - | - | - |
| Electric wire | - | - | - |
| Plug | SN6/S7 | SN6/S7 | SN6/S7 |

#30010-E41

## PROBE ADAPTER CABLE

BNC connection on SN6 / S7, 30 cm cable

| Article | Code |
|---|---|
| Probe adapter cable | 30010-E41 |

#30010-E21

## MEMBRANE CAP

80 mm, for CLF probe (free chlorine)

| Article | Code |
|---|---|
| Membrane cap | 30010-E21 |

#30010-E33

## ELECTROLYTE

for CLF probe (free chlorine)

| Article | Code |
|---|---|
| Elektrolyte | 30010-E33 |

* Lifespan may be affected by water hardness, soiling and temperature etc.

## HOLDER AND KEY FOR PROBES

Probe holder connection hose 6.2 x 1 mm, incl. PG 13.5 screw connection

| Article | Code |
|---|---|
| Probe holder | 30010-E35 |
| Keys for probes | 30010-E39 |

#30010-E35

#30010-E39

## PE MEASURING WATER AND DOSING LINE

¼ „x 6.35 mm

| Article | Code | per meter |
|---|---|---|
| PE measuring water and dosing line ¼ "x 6.35 mm | 30010-E5 | |

#30010-E5

## PIPE WEIGHT

for the suction line in the container

| Article | Code |
|---|---|
| Pipe weight | 30010-E25 |

#30010-E25

## DOSIERSCHLAUCHPUMPE

Hochleistungspumpe mit 3,6 l/h Leistung, bis zu 1 bar Druck.
#30010-E6 dosiert bei 24 V Versorgung 7,2 l/h. Zum Dosieren von Desinfektions- und Flockungsmittel, sowie pH-Korrekturen, für Pools bis 250 m³

| Article | Code |
|---|---|
| Dosing hose pump 12-24 V | 30010-E6 |
| Dosing hose pump 230 V | 30010-E7 |

#30010-E6/#30010-E7

## REPLACEMENT DOSING HOSE PUMP

| Article | Code |
|---|---|
| Replacement dosing hose pump 12V, 3.6 l / h, for MIDA.Sin Pro, MIDA.Sin and MIDA.Sin Salt | 30010-E9 |
| Replacement dosing hose pump 12 V, 0.6 l / h, for flocculation for MIDA.Sin Pro and MIDA.Sin Pro Oxygen | 30010-E91 |
| Front cover including hose, without motor | 30010-E40 |

#30010-E9/#30010-E91

#30010-E8

## DOSING PUMP HOSE

Replacement dosing pump hose made of LDPE, resistant to acids and chemicals, including wrap and silicone grease.

| Article | Code |
|---|---|
| Dosing pump hose | 30010-E8 |

#30010-E10

## EXTERNAL 7" TOUCH-SCREEN DISPLAY

For remote access with display of water values, including air temperature and humidity sensor, dimensions: 253 x 168 x 39 mm, including dowels and screws

| Article | Code |
|---|---|
| External touch-screen display | 30010-E10 |

#30010-E11

## THERMOMETER AIR TEMPERATURE

Required for the frost protection function, without cable, electronic temperature sensor with 4 - 20 mA output

| Article | Code |
|---|---|
| Thermometer air temperature | 30010-E11 |

#30010-E28

## MIDA.Sin THERMOMETER

For water temperature including immersion sleeve 1/4"

| Article | Code |
|---|---|
| MIDA. Sin thermometer | 30010-E28 |
| Immersion sleeve 1/4" | 30010-E29 |

#30010-E12

## PRESSURE WATER LEVEL PROBE

This hydrostatic water level meter is compactly built into a stainless steel housing with strain gauges. For installation in the surge water tank, roller shutter shaft or vertical conduit leading out from the pool. 4 measurements: pump off, make-up on, make-up off, backwashing on. The measuring range is specified at the factory between 5 and 200 cm, but can be adjusted to 100 cm.
cable length: 4.0 m

| Article | Code |
|---|---|
| Pressure water level probe | 30010-E12 |

## 2/2-WAY SOLENOID VALVE ½“

NEW

- For automatic fresh water replenishment
- Servo-controlled diaphragm valve
- Spring-coupled diaphragm opens without differential pressure
- Damped closing and low noise
- High flow rate with a compact design
- Energy-saving double coil technology in kick and drop design
- Material: brass, seal: NBR

| Article | Code |
|---|---|
| 2/2-way solenoid valve ½ “ | 30010-E52 |

#30010-E52

## ZETA POTENTIAL MIXER - ZPM

The ZPM is a static mixer for cavitation of the water and for the injection of Floc+ flocculant. It increases the coagulation and flocculation effect for the conversion of the dissolved particles into filterable substances. Material: stainless steel V4A / AISI316 with plastic screw connections, suitable for MIDA.Oxygen (see catalog page 24) and MIDA.Sin Pro (see catalog page 29)

| Article | length | Code |
|---|---|---|
| Connection: d50 / DN40 | 195 mm | 30010-E16 |
| Connection: d63 / DN50 | 245 mm | 30010-E17 |

#30010-E16/#30010-E17

## ADHESIVE PLUG

d50mm -1/4 “IG, for removal of ball valve and injection valve

| Article | Code |
|---|---|
| Adhesive plug | 30010-E19 |

#30010-E19

## PVC REDUCTION ½“ AG X ¼“ IT

Transition to retrofitting all MIDA.Sin Pro, MIDA.Sin Salt and MIDA.Sin systems in existing ½“ connections

| Article | Code |
|---|---|
| PVC reduktion ½“ AG x ¼“ IT | 30010-E26 |
| Injection valve ¼“ | 30010-E4 |

#30010-E26

#30010-E4

## WITHDRAWAL BALL VALVE 1/4“

| Article | Code |
|---|---|
| Withdrawal ball valve 1/4“ | 30010-E24 |

#30010-E24

## ELEKTRONISCHER DURCHFLUSSWÄCHTER MIT FILTER

Erlaubt die visuelle Kontrolle des Messwassers der Sonden.
Fehlermeldung im Fall unzureichenden Durchflusses zu den Sonden.
Verhindert Falschmessungen und Falschdosierungen. inkl. Vorfilter

#30010-E27

| Article | Code |
|---|---|
| Flow switch | 30010-E27 |
| Sieve | 30010-E36 |
| poetry | 30010-E37 |
| Housing with fitting | 30010-E38 |

#30010-E36

#30010-E37

#30010-E38

#30020-E1

## ELECTROLYTIC CELL

Made of titanium with iridium-ruthenium coating, chlorine production of 22 g / h at 0.4% salinity, approx. 8,000 operating hours *

| Article | Code |
|---|---|
| Electrolytic cell with housing | 30020-E1 |
| Electrolysis cell without housing | 30020-E11 |
| Casing | 30020-E4 |

#30020-E4

#30020-E7

## CONNECTION CABLE

2-core connection cable between MIDA.Sin Salt and MIDA.Sin Salt Easy

| Article | Code |
|---|---|
| Thermometer air temperature | 30020-E7 |

## SACRIFICIAL ANODE

1½ „sacrificial anode for corrosion protection of stainless steel components, especially for salt electrolysis, material: zinc, in 50 mm or 63 mm PVC, with T-piece

**PLEASE NOTE:**
We do not recommend the use of salt electrolysis and hydrolysis in connection with stainless steel components. However, corrosion can be avoided if an optional sacrificial anode is installed. This should always be used with the Mida.Sin Salt (see Catalog page 32) and MIDA.Oxi (see catalog page 42) can be used.

#0A-50/#0A-63

| Article | Code |
|---|---|
| Sacrificial anode 50 mm with adhesive sleeves | 0A-50 |
| Sacrificial anode 63 mm with adhesive sleeves | 0A-63 |

* Lifespan may be affected by water hardness, soiling and temperature etc.

Customer photo: company „Eitzenberger Schwimmbadtechnik"

# SALT ELECTROLYSIS / HYDROLYSIS

1 year manufacturer's warranty
except sensors: 6 months warranty

## MIDA.Oxi

MIDA.Oxi is a water treatment system **AND** a controller for swimming pools. This water treatment combines electrolysis of low salinity with hydrolysis. With the electrolysis of low salinity we produce liquid chlorine from water which is very slightly salted (**from 1.5 g of salt per liter**). The hydrolysis produces disinfectants such as oxygen, peroxide, hydroxyls and ozone. All these oxidants eliminate organic matter and pathogen in water. The used chlorine reconverts into salt. The oxidants of the hydrolysis reconvert into water on its way back to the pool.
The system centrally controls all the components of the pool, by ensuring an efficient interaction.
Coaxial cable with BNC connector. Probes are exchangeable.
230 V, protection class IP54.

**Controls all components, e.g.:**
(Options can also be retrofitted)

- Filter pump 230 V, as well as 400 V and frequency-controlled pumps (Speck, Pentair, Hayward, DAB E. Swim) via on-site relay
- Backwashing with Besgo rod valve
- lighting
- Besgo rod valve
- Countercurrent system
- heat pump
- Pool cover
- with the options pH and ORP control, the device becomes a fully automatic measuring and control unit
- options can be retrofitted
- including dosing hose pump 1.5 l / h
- including integrated proportional control pH (from version 3.46)
- standard: PVC probes (optional glass)
- **lifespan cell: approx. 5,000 operating hours (guarantee),**
- probes warranty: 6 months, max. working pressure: 7 bar
- vertical installation (horizontal with flow switch see on catalog page 45)

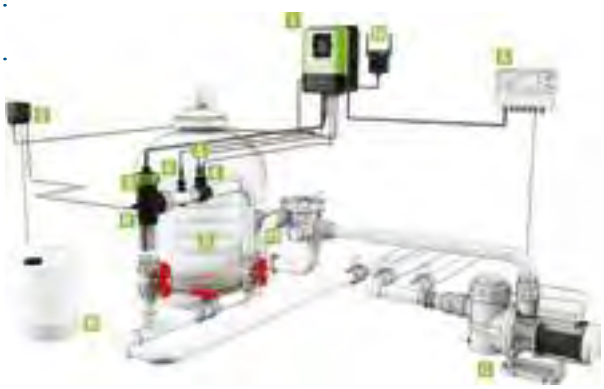
MIDA.Oxi for public pools

**PLEASE NOTE:**
We do not recommend the use of salt electrolysis and hydrolysis in connection with stainless steel components. However, corrosion can be avoided if an optional sacrificial anode (see catalog page 38) is installed.

Optional equipment and expansion modules on page 44

### Installation

A Filtration pump timer (not necessary)
B Silex / glass / diatom filter
C Circulation pump (230V, 400V, variable speed)
1 Electronic box
3 Low salinity electrolysis cell (always in vertical position)
4 pH sensor (optional - for models with pH control)
5 ORP sensor (optional - for models with ORP control)
6 Conductivity sensor (optional - for models with conductivity control)
8 Peristaltic dosing pump (optional - for models with pH control)
9 Injection valve (optional - for models with pH control)
10 Hydrochloric acid tank (optional, for models with pH control, not supplied with unit)
15 Other pool equipment
16 Module RF or RF/WIFI or WIFI



Optionally available with new connection sets pH Pro and ORP Pro incl. swiss quality glass sensor and separate measuring water container, see page 44.

| Description | MIDA.Oxi 1 | MIDA.Oxi 2 | MIDA.Oxi 3 | MIDA.Oxi 4 | MIDA.Oxi 5 | MIDA.Oxi 6 | MIDA.Oxi 7 | MIDA.Oxi 8 | MIDA.Oxi 9 |
|---|---|---|---|---|---|---|---|---|---|
| Use | Private pools | | Public pools | | | | | | |
| Intensity | 0-100 % | | 0-100 % | | | | | | |
| Salt concentration | 1.5 g per liter | | 1.5 g per liter | | | | | | |
| Production chlorine with 1.5 g salt | 14 g/h | 20 g/h | 30 g/h | 51 g/h | 75 g/h | 105 g/h | 150 g/h | 210 g/h | 300 g/h |
| m³ pool (up to 28°C)* | 60 m³ | 120 m³ | 40 m³ | 65 m³ | 120 m³ | 250 m³ | 350 m³ | 500 m³ | 750 m³ |
| m³ pool (from 28°C)* | 40 m³ | 80 m³ | – | – | – | – | – | – | – |
| Display | color display (9 languages: D, GB, F, CZ, E, P, I, TR, NL) | | | | | | | | |
| Power supply | 230 V / 1 ph / 50/60 Hz | | 230 V / 1 ph / 50/60 Hz | | | | | | |
| Outlet | 8-13 A | 8-25 A | 8-35 A | 8-65 A | 8-95 A | 10-65 A | 10-95 A | 2 (10-65 A) | 2 (10-95 A) |
| Maximum consumption | 120 W | 200 W | 400 W | 680 W | 1000 W | 1020 W | 1500 W | 1500 W | 1500 W |
| Dimensions | 270 x 220 x 115 mm | | 300 x 550 x 250 mm | | | | | | |
| Electronic box | Fireproof plastic ABS, black | | Black anodized aluminum | | | | | | |
| Front cover | ABS plastic, green | | ABS plastic, black | | | | | | |
| Protection class | IP 54 | | IP 54 – optional IP 65 (on request) | | | | | | |
| Electronic | Microprocessor 32 bit | | Microprocessor 32 bit | | | | | | |
| Intensity control | Ampere + Volt | | Ampere + Volt | | | | | | |
| Ventilation | Natural convection | | Forced | | | | | | |
| Automatic cleaning | Programmable 1 to 24 hours | | Programmable 1 to 24 hours | | | | | | |
| Flow switch | Gas sensor | | Flow sensor | | | | | | |
| Time counter | Yes - accessible by client | | Yes - accessible by client | | | | | | |
| Control production of disinfection | from 0 to 100% | | from 0 to 100% | | | | | | |
| Alarms | Insufficient salt / no flow / pH metering / pH extremely high or low / pH max. metering time / communication error | | | | | | | | |
| Test salinity | – | | Low conductivity indicator (± 10% accuracy) | | | | | | |
| Production control by pool cover | Programmable 0-100% production of disinfection depending on pool cover open or closed | | | | | | | | |
| Production control by external signal | – | | Configurable output level 0-100% depending on any external signal (second analog input) | | | | | | |
| Communication | MODBUS / WIFI | | MODBUS / WIFI | | | | | | |
| 230 V output control (3 outputs) | Acid pump / relay AUX 1 / relay AUX 2 | | Filtration control / lighting control / heating control | | | | | | |
| Potential-free output control (4 outputs) | Filtration / lighting / heating (AUX 4) / relay AUX 3 | | 4 additional relay outputs configurable by the user | | | | | | |
| Number of bags of salt (à 25 kg) | 4 | 8 | 3 | 4 | 8 | 15 | 21 | 30 | 45 |

* at least 8 hours filter runtime (with several users per day or less filter running time, the required chlorine production should be coordinated together).

### PRIVATE POOLS: maximum pool capacity up to 60 m³

| Article | Code | kg |
|---|---|---|
| Oxi 1 | 110000 | 8,0 |
| Oxi 1 pH | 112000 | 9,5 |
| Oxi 1 pH/ORP | 112030 | 9,6 |

### PRIVATE POOLS: maximum pool capacity up to 120 m³

| Article | Code | kg |
|---|---|---|
| Oxi 2 | 120000 | 8,0 |
| Oxi 2 pH | 122000 | 9,5 |
| Oxi 2 pH/ORP | 122030 | 9,6 |

### PUBLIC POOLS: maximum pool capacity up to 40 m³

| Article | Code | kg |
|---|---|---|
| Oxi 3 | 130000 | 8,0 |
| Oxi 3 pH | 132000 | 9,5 |
| Oxi 3 pH/ORP | 132030 | 9,6 |

### PUBLIC POOLS: maximum pool capacity up to 65 m³

| Article | Code | kg |
|---|---|---|
| Oxi 4 | 111000 | 25,2 |
| Oxi 4 pH | 111020 | 29,0 |
| Oxi 4 pH/ORP | 111030 | 29,5 |

### PUBLIC POOLS: maximum pool capacity up to 120 m³

| Article | Code | kg |
|---|---|---|
| Oxi 5 | 121000 | 38,0 |
| Oxi 5 pH | 121020 | 39,8 |
| Oxi 5 pH/ORP | 121030 | 40,5 |

### PUBLIC POOLS: maximum pool capacity up to 250 m³

| Article | Code | kg |
|---|---|---|
| Oxi 6 | 131000 | 46,0 |
| Oxi 6 pH | 131020 | 48,0 |
| Oxi 6 pH/ORP | 131030 | 49,0 |

### PUBLIC POOLS: maximum pool capacity up to 350 m³

| Article | Code | kg |
|---|---|---|
| Oxi 7 | 141000 | |
| Oxi 7 pH | 141020 | |
| Oxi 7 pH/ORP | 141030 | |

### PUBLIC POOLS: maximum pool capacity up to 500 m³

| Article | Code | kg |
|---|---|---|
| Oxi 8 | 151000 | |
| Oxi 8 pH | 151020 | |
| Oxi 8 pH/ORP | 151030 | |

### PUBLIC POOLS: maximum pool capacity up to 750 m³

| Article | Code | kg |
|---|---|---|
| Oxi 9 | 161000 | |
| Oxi 9 pH | 161020 | |
| Oxi 9 pH/ORP | 161030 | |

Oxi 8 = 2 x Oxi 6 Oxi 9 = 2 x Oxi 7

# OPTIONAL ACCESSORIES FOR MIDA.Oxi

## pH-SET

Index and management of the pH-value.
Consists of: pH sensor with cable and plug BNC (material PVC), chip, 3 x buffer solutions (1 x 20 ml neutral, 1 x 20 ml pH 7, 1 x 20 ml pH 10) and installation part (1 x T-piece 50 x ½" internal thread and 1 x screw connection sensor holder ½" external thread).

| Article | Code | kg |
|---|---|---|
| pH-set | 002000 | 0,4 |

## ORP-SET

Measurement and control of the ORP.
Consists of: ORP sensor with cable and plug BNC (material PVC), chip, 2 x buffer solution (1 x 20 ml neutral, 1 x 20 ml ORP 465 mV) and installation part (1 x T-piece 50 x ½" internal thread and 1 x screw connection sensor holder ½" external thread).

| Article | Code | kg |
|---|---|---|
| ORP-module | 000030 | 0,4 |

## pH-SET Pro

Index and management of the pH-value.
Consists of: swiss quality pH glass sensor with cable and plug BNC, chip, 3 x buffer solution (1 x 20 ml neutral, 1 x 20 ml pH 7, 1 x 20 ml pH 10), measuring water tank and installation part (2 x T-piece 50 x ½" internal thread, 2 x ball valve ½" external thread, 2 x hose connector ½" external thread, 4 m measuring water hose 8 x 12 mm).

| Article | Code | kg |
|---|---|---|
| pH-set Pro | 002010 | 0,4 |

## ORP-SET Pro

Measurement and control of the ORP.
Consists of: Swiss quality ORP glass sensor with cable and plug BNC, chip, 2 x buffer solution (1 x 20 ml neutral, 1 x 20 ml ORP 465 mV), measuring water tank and installation part (2 x T-piece 50 x ½" internal thread, 2 x ball valve ½" external thread, 2 x hose connector ½" external thread, 4 m measuring water hose 8 x 12 mm).

| Article | Code | kg |
|---|---|---|
| ORP-module Pro | 000040 | 0,4 |

## pH SENSOR

PVC plastic, 2 m cable with plug BNC

| Article | Code | kg |
|---|---|---|
| pH sensor | 001010 | 0,2 |

## ORP SENSOR

PVC plastic, 2 m cable with plug BNC

| Article | Code | kg |
|---|---|---|
| ORP sensor | 001030 | 0,2 |

## pH SENSOR Pro

Swiss quality pH glass sensor, 2 m cable with plug BNC.

| Article | Code | kg |
|---|---|---|
| pH sensor Pro | 001020 | 0,2 |

## ORP SENSOR Pro

Swiss quality ORP glass sensor, 2 m cable with plug BNC.

| Article | Code | kg |
|---|---|---|
| ORP sensor Pro | 001040 | 0,2 |

### TECHNICAL DETAILS

| Description | pH | ORP |
|---|---|---|
| Probe Type | Epoxi | Epoxi |
| Measuring range | 0-14 pH | 0-1000 mV |
| Measurement accuracy | 0,1 pH | 1-3 mV |
| Material | Ag/Cl | Gold |
| Probe holder | ABS 50/63 mm | ABS 50/63 mm |
| Additional equipment | - | - |
| Cable | 2 m | 2 m |
| Plug | BNC | BNC |

## FLOW SWITCH

with 2 m cable, including probe holder ABS-50/63 ¾" IT

| Article | Code |
|---|---|
| Flow switch | 000700 |

## Salt tester

Measurement and regulation of the conductivity value (MIDA.Oxi must be configured in the factory before ordering). Including KCl storage liquid # 102030-E17 and buffer solution # 102030-E26, # 102030-E27.

| Article | Code |
|---|---|
| Salt tester | 000405 |
| Replacement probe | 000410 |

## Measuremet free chlorine

Free chlorine measurement and control (ppm)
Probe type: Amperometric (Au-Cu);
Measuring range: 0-10 ppm; Measuring accuracy: 0.10 ppm; Material: copper / gold; Probe holder: ABS 50/63 mm; Additional equipment: 4 m flexible hose: PVC, transparent, 8 x 12mm and two ½ "valves;
Connector: terminals

| Article | Code |
|---|---|
| Control free chlorine | 000400 |

## DOSING HOSE PUMP 1.5 l/h

For pH or flocculation, algicide.
Incl. 2 m PE hose 4 x 6 mm and 2 m PVC 4–6 mm hose and manual on / off switch. 230 V, CE approved.

| Article | Code |
|---|---|
| Dosing hose pump 1,5 l/h | 000100 |

## DOSING HOSE PUMP 0–6 l/h

For pH or e.g. flocculation, algicide. Incl. Intake foot, inoculation valve, 2 m PE hose 4 x 6 mm and 2 m PVC hose 4 x 6 mm as well as manual on / off switch. Dosing capacity 0–100% adjustable (0–6 l / h), 230 V, CE approved.

| Article | Code |
|---|---|
| Dosing hose pump 0,6–6 l/h | 000101 |

## SCREEN MOUNT

Wall mounting set for external attachment of the color screen, including 10m extension cable and cover panel for the device.

| Article | Code |
|---|---|
| SCREEN MOUNT | WHFVA |

## WIFI MODULE

Control of the systems and pool components by smartphone, tablet or computer, incl. 10 m cable. Stores the history of the measured values for 30 days; The values can be exported as a PDF file.

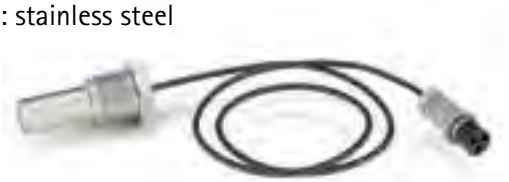
Note: for 2015 models is a software update as well as a change of Screen necessary.

| Article | Code |
|---|---|
| WIFI-Module 2016 | 000005 |

## TEMPERATURE MODULE

Temperature sensor for current water temperature and control of the heat source.

- description: temperature
- probe type: thermometer
- measuring range: 0-100 ° C
- measuring accuracy: 1 ° C
- material: stainless steel
- incl. Probe holder: ABS 50/63 mm ½"IT
- cable: 2 m
- connector: terminals



| Article | Code |
|---|---|
| Temperature module | 000500 |

## EARTHING-SET

With 2 m cable, including immersion sleeve and O-ring. If there is a „leakage current" in the pool, the pH value is not measured correctly, this can be remedied with the earthing set.

| Article | Code |
|---|---|
| Earthing-set | 000550 |

## PE safety container

PE safety container with handle 40 l, translucent, 40 x 40 x 33 cm for containers 25/30 l capacity

| Article | Code |
|---|---|
| PE safety container | 392 |

## SPARE PARTS FOR MIDA.Oxi

Zelle + Gehäuse

#102030-E30

#102030-E7

#102030-E8

#102030-E9

#102030-E10

#102030-E11

#102030-E12

#102030-E13

#102030-E18

#102030-E14

#102030-E22

#102030-E20

#102030-E21

#102030-E23

#001000

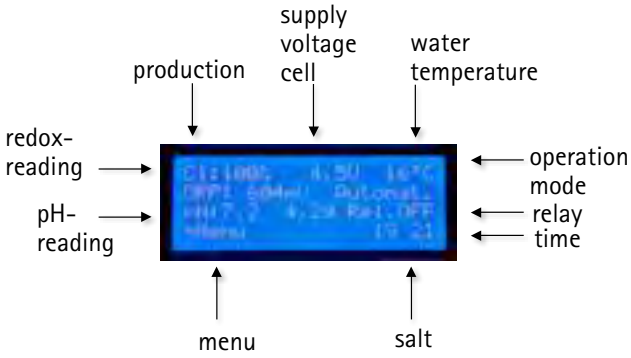
| Code | description |
|---|---|
| RCB16 | Titanium cell 15A (Oxi 1) - without housing |
| RCB33 | Titanium cell 30A (Oxi 2) - without housing |
| RCB50 | Titan cell 50A (Oxi 3) - without housing |
| RCS22 | Housing for RCB16, RCB33 |
| 102030-E30 | Color screen / display 2.8" |
| 102030-E7 | Santoprene replacement hose for pH metering hose pump ** |
| 102030-E8 | Turnstile for pH dosing hose pump ** |
| 102030-E9 | Inoculation valve ½" ET |
| 102030-E10 | Dosing hose 1 piece = 1 meter |
| 102030-E11 | Suction hose PVC, d 4 x 6mm, 1 piece = 1 meter |
| 102030-E12 | PVC T-piece probe holder 50 x ½ "IG, for 1 probe |
| 102030-E13 | PVC T-piece probe holder 50 x ½ "IG, for 2 probes |
| 102030-E18 | PVC probe holder 50 x ½ "IT, for 2 probes and 3/4" IT for flow switch |
| 102030-E28 | Plug ½ "for probe holder |
| 102030-E14 | Screw connection probe holder ½ "ET for pH / ORP probes |
| 102030-E20 | Bypass with sample water tank incl. 4 m hose 8 x 12 mm, 2 x impulse ½ "and 2 x ball valve ½" ET x ½ "IT |
| 102030-E21 | Bypass with double measuring water tank incl. 4 m hose 8 x 12 mm, 2 x impulse valve ½" and 2 x ball valve ½" ET x ½ "IT |
| 102030-E22 | Individual sample water tank including ½ "screw connection |
| 102030-E23 | Double sample water tank including ½ "screw connection |
| 102030-E24 | PVC ball valve ½ "(inside) x ½" (outside) with blue handle |
| 001000 | ph redox chip |

* with 3-stage switch ON / OFF, bottom right
** with 2-stage switch ON / OFF, bottom left and adjustment of the pump output

ET= external thread
IT= inner thread

## MIDA.Low Salt

Compact salt electrolysis for private pools with low salt content of 1-2 g / l = 0.1-0.2%, shockproof housing with stainless steel frame V4A / AISI 316 and digital display with menu navigation in 12 different languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR), 230V, protection class IP65.




**Characteristics:**

- works with 1 - 2 g of salt per liter
- integrated microprocessor
- pH / Redox / Chlorine options with high-quality PVC probes easy to install and maintainable wall mounting plate with 1.5 l / h pH dosing pump
- coaxial cable with BNC connector
- probes are interchangeable
- integrated gas sensor, optional flow switch for horizontal installation
- incl. filter control and a free relay for lighting etc.
- reduction of chlorine production when the pool cover is closed
- dosing time delay
- easy and intuitive menu navigation (3 buttons) in 12 different languages, see catalog page 52

**Advantages:**

- self-cleaning monopolar (MIDA.Low Salt 1 and 2) or bipolar cells (MIDA.Low Salt 3) with 10,000 hours operating life at 4 hours polarization and 18,000 hours at 8 hours polarization, vertical installation (horizontal with flow switch, see page 52)
- waterproof housing with IP65 protection
- easy to install because of the large clamping area
- less power consumption and less heat in the device, since no transformers are installed (less susceptible to interference)
- easy to retrofit into almost any pool area
- can be upgraded with any option, see catalog page 52)

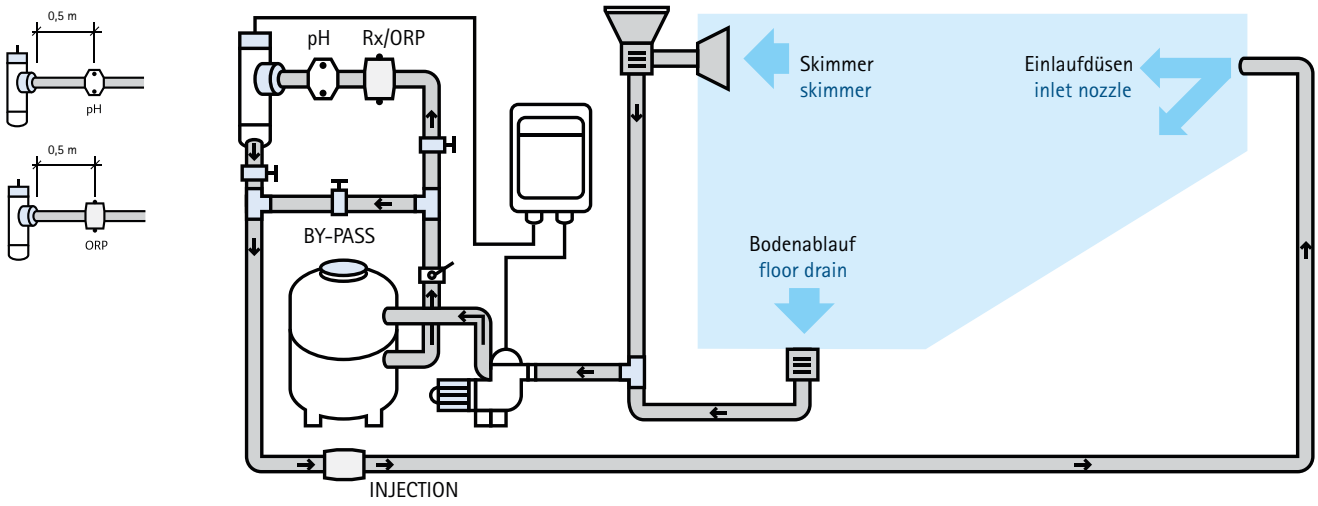
**Recommended chlorine production by pool size and filter usage**

| | | Pool volume | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 25 m³ | 50 m³ | 75 m³ | 100 m³ | 125 m³ | 150 m³ | 175 m³ | 200 m³ |
| filtration times | 4 h | 15 g/h | 25 g/h | | | | | | |
| | 6 h | 10 g/h | 20 g/h | 25 g/h | 35 g/h | | | | |
| | 8 h | 10 g/h | 15 g/h | 20 g/h | 25 g/h | 35 g/h | 35 g/h | | |
| | 10 h | | | 15 g/h | 20 g/h | 25 g/h | 35 g/h | 35 g/h | |
| | 12 h | | | | 20 g/h | 25 g/h | 25 g/h | 35 g/h | 35 g/h |

At >28 °C please use the next larger system

**Prerequisite of the water parameters**

| Parameter | Minimal | Maximal | Check |
|---|---|---|---|
| Hardness [ppm] | 150 | 250 | monthly |
| Alkalinity [ppm] | 100 | 160 | weekly |
| pH | 7,0 | 7,8 | weekly |
| Cyanuric acid | 0 | 50 | monthly |




For installation we recommend #1014, see catalog page 40.

| Description | MIDA.Low Salt 1 | MIDA.Low Salt 2 | MIDA.Low Salt 3 |
|---|---|---|---|
| Use | | private pools | |
| Intensity | | 0-100 % | |
| Minimal salt concentration | | 1 g per liter | |
| Recommended salt concentration | | 1-2 g per liter | |
| Production chlorine with 4 – 5 g salt | 15 g/h | 20 g/h | 30 g/h |
| m³ Pool (up to 28°C)* | 50 m³ | 75 m³ | 125 m³ |
| m³ Pool (over 28°C)* | 25 m³ | 50 m³ | 100 m³ |
| Display | LCD digital 20 x 4 cm, 12 languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR) | | |
| Power supply | | 230 V 50/60 Hz | |
| Outlet (cell) | 25 A | 35 A | 17,55 A |
| Maximum power output | 187,5 W | 363 W | 380 W |
| Max. voltage cell | 7,5 V (monopolar) | 7,5 V (monopolar) | 21 V (bipolar) |
| Dimensions | | 308 x 250 x 89 mm | |
| Electronic box | | fireproof plastic ABS, black | |
| Protection class | | IP 65 | |
| Electronic | | microprozessor 16 bit | |
| Intensity control | | Ampere + Volt | |
| Ventilation | | natural convection | |
| Automatic cleaning | | programmable 1-8 h | |
| Flow switch | | gas sensor | |
| Time counter | | yes | |
| Control production of disinfection | | 0 - 100 % | |
| Alarms | salt insufficient / too much salt / no flow / error pH pump / fault probe / short circuit / temperature | | |
| Test salinity | too much / too little salt without conductance probe or in g / l with conductance probe | | |
| Production control by pool cover | | 20% production with closed pool cover | |
| Production control by external signal | | – | |
| Communication | | RS 232 | |
| 230 V output control (1 output) | | acid pump | |
| Potential-free output control (1 output) | | AUX 1 | |
| Number of bags of salt | 2 - 4 backs à 25 kg | 3 -6 backs à 25 kg | 5 - 10 backs à 25 kg |

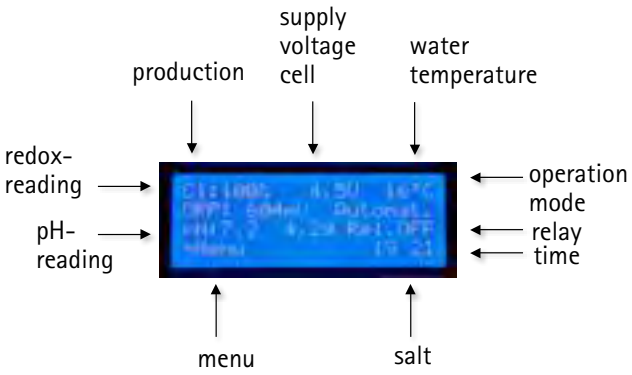
*At least 8 hours filter runtime (with several users per day or less filter running time, the required chlorine production should be coordinated together).

| Article | Max. pool volume | Code |
|---|---|---|
| MIDA.Low Salt 1 | 50 m³ | 1031 |
| MIDA.Low Salt 2 | 75 m³ | 1032 |
| MIDA.Low Salt 3 | 125 m³ | 1033 |

Other systems available on request

## MIDA.Salt

Compact salt electrolysis for private swimming pools with impact-resistant housing with stainless steel frame V4A / AISI 316 and digital display with menu navigation in 12 different languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR), 230V , protection class IP65.




**Characteristics:**

- works with 4 - 5 g of salt per liter
- integrated microprocessor
- pH / ORP / Chlorine options with high-quality PVC probes easy to install and maintainable wall mounting plate with 1.5 l / h pH dosing pump
- coaxial cable with BNC connector
- probes are interchangeable
- integrated gas sensor, optional flow switch for horizontal installation
- incl. filter control and a free relay for lighting etc.
- reduction of chlorine production when the pool cover is closed
- dosing time delay
- easy and intuitive menu navigation (3 buttons) in 12 different languages, see catalog page 52

**Advantages:**

- self-cleaning monopolar cells with 10,000 operating hours lifetime at 4 hours polarization and 18,000 hours at 8 hours polarization, vertical installation (horizontal with flow switch see page 52)
- waterproof housing with IP 65 protection
- easy to install because of the large clamping area
- less power consumption and less heat in the device, since no transformers are installed (less susceptible to interference)
- easy to retrofit in almost any pool area
- can be upgraded with any option, see catalog page 52

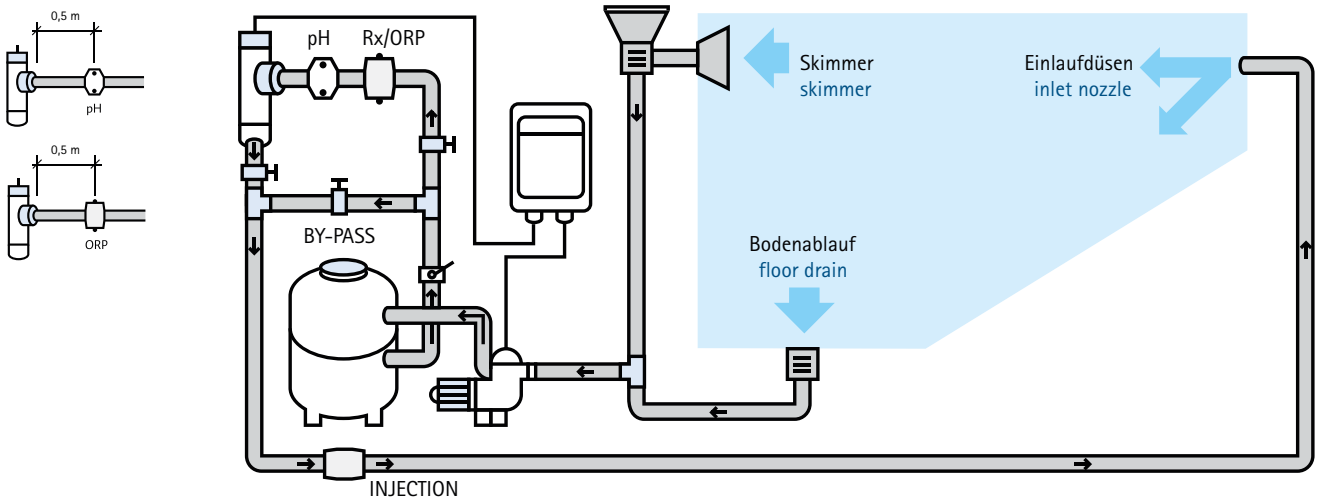
### Recommended chlorine production by pool size and filter usage

| | | Pool volume | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 25 m³ | 50 m³ | 75 m³ | 100 m³ | 125 m³ | 150 m³ | 175 m³ | 200 m³ |
| filtration times | 4 h | 15 g/h | 25 g/h | | | | | | |
| | 6 h | 10 g/h | 20 g/h | 25 g/h | 35 g/h | | | | |
| | 8 h | 10 g/h | 15 g/h | 20 g/h | 25 g/h | 35 g/h | 35 g/h | | |
| | 10 h | | | 15 g/h | 20 g/h | 25 g/h | 35 g/h | 35 g/h | |
| | 12 h | | | | 20 g/h | 25 g/h | 25 g/h | 35 g/h | 35 g/h |

At >28 °C please use the next larger system

### Prerequisite of the water parameters

| Parameter | Minimal | Maximal | Check |
|---|---|---|---|
| Hardness [ppm] | 150 | 250 | monthly |
| Alkalinity [ppm] | 100 | 160 | weekly |
| pH | 7,0 | 7,8 | weekly |
| Cyanuric acid | 0 | 50 | monthly |




For installation we recommend #1014, see catalog page 40.

| Description | MIDA.Salt 1 | MIDA.Salt 2 | MIDA.Salt 3 |
|---|---|---|---|
| Use | | private pools | |
| Intensity | | 0-100 % | |
| Minimal salt concentration | | 2 g per liter | |
| Recommended salt concentration | | 4–5 g per liter | |
| Production chlorine with 4 – 5 g salt | 15 g/h | 25 g/h | 35 g/h |
| m³ Pool (up to 28°C)* | 50 m³ | 100 m³ | 150 m³ |
| m³ Pool (over 28°C)* | 25 m³ | 50 m³ | 100 m³ |
| Display | LCD digital 20 x 4 cm, 12 languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR) | | |
| Power supply | | 230 V 50/60 Hz | |
| Outlet (cell) | 15 A | 25 A | 35 A |
| Maximum consuption | 112,5 W | 187,5 W | 263 W |
| Max. voltage cell | | 7,5 V (monopolar) | |
| Dimensions | | 308 x 250 x 89 mm | |
| Electronic box | | fireproof plastic ABS, black | |
| Protection class | | IP 65 | |
| Electronic | | microprozessor 16 bit | |
| Intensity control | | Ampere + Volt | |
| Ventilation | | natural convection | |
| Automatic cleaning | | programmable 1-8 h | |
| Flow switch | | gas sensor | |
| Time counter | | yes | |
| Control production of disinfection | | 0 - 100 % | |
| Alarms | salt insufficient / too much salt / no flow / error pH pump / fault probe / short circuit / temperature | | |
| Test salinity | too much / too little salt without conductance probe or in g / l with conductance probe | | |
| Production control by pool cover | | 20% production with closed pool cover | |
| Production control by external signal | | – | |
| Communication | | RS 232 | |
| 230 V output control (1 output) | | acid pump | |
| Potential-free output control (1 output) | | AUX 1 (e.g., circulating pump) | |
| Number of bags of salt | 8 - 10 backs à 25 kg | 16- 20 backs à 25 kg | 24 -30 backs à 25 kg |

*At least 8 hours filter runtime (with several users per day or less filter running time, the required chlorine production should be coordinated together).

| Article | Max. pool volume | Code |
|---|---|---|
| MIDA.Salt 1 | 50 m³ | 1021 |
| MIDA.Salt 2 | 100 m³ | 1022 |
| MIDA.Salt 3 | 150 m³ | 1023 |

Other systems available on request

# OPTIONAL EQUIPMENT FOR MIDA.Low Salt AND MIDA.Salt

## Optional equipment

#1017

#1018

| Article | kg | Code |
|---|---|---|
| pH / ORP Module Pro wall mounting plate with sample water tank, prefilter and dosing pump | 2,5 | 1017 |
| pH / free chlorine module Pro wall mounting plate with sample water tank, pre-filter and dosing pump | 0,5 | 1018 |
| pH module for PVC pipe Installation incl. dosing hose pump | | 1019 |
| Earthing | 1 | 1012 |
| NTC temperature module | 0,5 | 1013 |
| Flow switch | 0,1 | 1014 |
| Conductivity module for measurement of salinity in g/l | 0,5 | 1015 |

#1012

#1019

#1015

#1013

#1014

## Spare parts

#1021-E1

#1021-E4

#1021-E2 und
#1021-E3

#1021-E5

| Article | kg | Code |
|---|---|---|
| MIDA.Low Salt cell15 g/h | 5 | 1031-E1 |
| MIDA.Low Salt cell 20 g/h | 5 | 1032-E1 |
| MIDA.Low Salt cell 30 g/h | 5 | 1033-E1 |
| MIDA.Salt cell 15 g/h | 5 | 1021-E1 |
| MIDA.Salt cell25 g/h | 5 | 1022-E1 |
| MIDA.Saltcell 35 g/h | 5 | 1023-E1 |
| MIDA.Salt pH probe | 5 | 1021-E2 |
| MIDA.Salt Redox gold probe | 5 | 1021-E3 |
| MIDA.Salt free chlorine probe | 5 | 1021-E4 |
| MIDA.Salt pH peristaltic pump 1,5 l/h | 5 | 1021-E5 |
| MIDA.Salt pH peristaltic pump 1,5 – 4 l/h | 5 | 1021-E6 |

# POOL SALT

**Corresponding to quality standard EN 16401 and Biocidal Products Regulation (BPR) 528/2012 EU.**

Pool salt contributes to a safer use of the swimming pool for swimming and offers high comfort. Pool salt is made on the basis of natural, coarse sea salt with an extremely high purity and low sulfate content and contains no harmful release agents. The pool salt will be used for optimizing the salinity and for the production of chlorine by electrolysis.

**Application:** salt for swimming pools / salt electrolysis (not suitable for membrane electrolysis), sea salt for optimizing salinity

**Features:**
- salt crystals – grain size: 1–2 mm
- very high purity - contains no additives
- good and fast soluble
- suitable for all work of electrochlorinators

**Package contents:** 25 kg, only be purchased in full pallets

| Article | Code | kg | Packing |
|---|---|---|---|
| Pool salt | 799 | 25,0 | 40 (per pallet) |

# CHEMISTRY AND BUFFER SOLUTIONS

## WATER DISINFECTION LIQUID

#C0001

#C0002

#C0003

#C0004

#C0005

#C0006

| Type | Content | Weight | Classification | Code |
|---|---|---|---|---|
| MIDA.Sin Chlor Pure 13% | 20 l | 24 kg | ADR 8 / UN 1791 | C0001 |
| MIDA.Sin pH Minus 19% | 20 l | 24 kg | ADR 8 / UN 2796 | C0002 |
| MIDA.Sin pH Plus 5% | 20 l | 24 kg | ADR 8 / UN 1824 | C0003 |
| MIDA.Sin Algizid 10% | 20 l | 24 kg | ADR 9 / UN 3082 | C0004 |
| MIDA.Sin Floc+* | 20 l | 24 kg | ADR 8 / UN 3264 | C0005 |
| MIDA.Sin Oxy Pure 11,9% | 20 l | 24 kg | ADR 5.1 / UN 2984 | C0006 |

Also available in 5 kg canisters on request.

* Mixture of coagulant and flocculant

## BUFFER SOLUTIONS

#1070-E3

#102030-E1

#102030-E2

#102030-E3

#102030-E4

#102030-E17

| Article | Code |
|---|---|
| Buffer solution pH 4, red, 50 ml | 1070-E3 |
| Buffer solution pH 7, green, 50 ml | 102030-E1 |
| Buffer solution pH 10, blue, 50 ml | 102030-E2 |
| Buffer solution Redox 468 mV, clear, 50 ml | 102030-E3 |
| Buffer solution neutral, clear, 50 ml | 102030-E4 |
| KCl storage liquid (3 molar), clear, 50 ml | 102030-E17 |

# CLEAN WATER WITH UV-C DISINFECTION

Already in 1878 it was discovered that sunlight has an antibacterial effect. Further investigation revealed that the germicidal effect that the germicidal effect is not caused by visible light, but by invisible ultraviolet light in the range of 200 - 280 nanometer (nm) wavelenght. A popular accessory of swimming pool water treatment is therefore the UV-C radiation without influencing the water quality (pH, oxygen content). The addition of water care products can thus be considerably reduced.
The UV-C disinfection systems are integrated in the filter circuit of the swimming pool.
The UV-C light destroys the cells and DNA from bacteria, viruses and microorganisms.
This environmentally friendly and effective method often totally destroys the organism, or at the very least will impair its ability to reproduce.

- UV-C is effective against all microorganisms
- Crystal clear water
- Reduced use of chemicals for water treatment
- Lower costs for chemicals, energy and maintenance
- No overdosing risk
- UV-C is an environmentally friendly technology

## WHAT IS AOP?

The AOP process (Advanced Oxidation Process) combines the advantages of ozone and UV-C in one device. The combined use of ozone and UV-C light in water generates hydroxyl radicals (OH-). These radicals are a very effective remedy for chlorine-resistant microorganisms (like legionella bacteria and cryptosporidium), organic pollutants, and by-products of cleaning such as chloramines, which are responsible for eye and skin irritation and the typical smell of chlorine.
Since UV-C light destroys the residual ozone in the water, no de-ozonization device is required.
AOP is a very effective and efficient method for the disinfection efficient method for the disinfection of your pool. Therefore, the amount of chlorine in the pool can be kept to a minimum.

**The advantages of AOP:**

- highly effective combination of ozone (oxidation) and UV-C (disinfection)
- improves the disinfection efficiency
- enables minimal chlorine content in the pool
- effective against chlorine-resistant microorganisms
- prevents the appearance of skin and eye irritation
- can be quickly integrated into existing filter systems

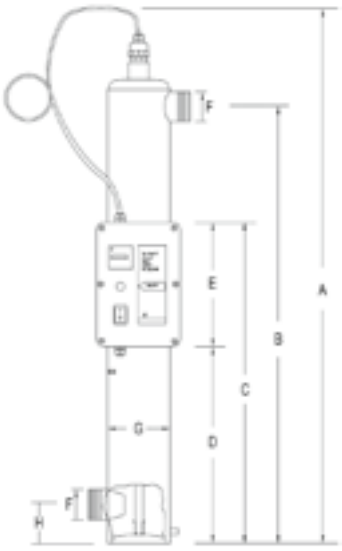
EASY UV (4-8 m³/h)

# UV-C DISINFECTION TECHNOLOGY

TYPE EASY-UV

The Easy-UV devices are bacteriologically tested. If the installation instruction is followed closely, a disinfection degree between 75% and 91% can be reached. On the second day the 94% mark will already be obtained. Easy-UV devices disinfect the water through UV-C light and destroy chloramines.
Bacteria, viruses, microalgae, fungi, parasites and other microorganisms will be destroyed. The unpleasant odor and the irritation of the mucus membranes in the nose, eyes, skin, and throat caused by the chloramines is absent. The water remains fresh, clean and clear and keeps its natural taste. Healthy minerals are not lost.
Easy-UV devices save chemicals. You will save up to 50% on chemical treatments and the aging of the building materials in and around the swimming pool slows down considerably.
UV-C disinfection is compatible with all other forms of water treatment.
Through the filter pump the device is easily connected to the water circuit.

| Technical Information | 4–8 m³/h | 5–15 m³/h |
|---|---|---|
| Max. pool volume | 40 m³ | 20–75 m³ |
| Lamp | 1x low pressure lamp | 1x low pressure lamp |
| Max. service lifetime of lamp | 9000 h | 9000 h |
| Power consumption | 75 W | 75 W |
| Wavelenght | 253,7 nm | 253,7 nm |
| Itensity at 1 m | 245 µW/cm² | 245 µW/cm² |
| Dwell time | 4 - 2 Sek. | 6,7 – 2,25 Sek. |
| Voltage | 230 V | 230 V |
| Frequency | 50 Hz | 50 Hz |
| IP - Code | IP 54 | IP 54 |
| Ballast | electronic | electronic |
| Fkow rate | 4 - 8 m³/h | 5 - 15 m³/h |
| Bypass operation up to | 15 m³/h pumps | 30 m³/h pumps |
| Max. pressure | 2,5 bar | 2,5 bar |
| Casing: electropolished | AISI 316 / 1.4404 | AISI 316 / 1.4404 |
| Water temperature | 10 - 40 °C | 10 - 40 °C |
| Time counter | no | yes |
| On/off switch | no | yes |
| Control lamp | yes | yes |



EASY UV (5-15 m³/h)

| Type | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| Easy-UV 4–8 m3/h | 1000 mm | 790 mm | 650 mm | 400 mm | 240 mm | 1½" AG | 90 mm | 60 mm |
| Easy-UV 5–15 m3/h | 1000 mm | 805 mm | 650 mm | 400 mm | 240 mm | 2" AG | 125 mm | 80 mm |

| Max. pool content | Flow rate | Max. flow in the bypass | External thread | Code | kg |
|---|---|---|---|---|---|
| 40 m³ | 4-8 m³/h | 15 m³/h | 1,5" | 129 | 12,0 |
| 20-75 m³ | 5-15 m³/h | 30 m³/h | 2,0" | 207 | 12,0 |

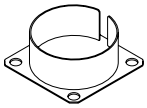
optionally available on base plate

## REPLACEMENT-UV-LAMP

| Article | Watt | Code | kg |
|---|---|---|---|
| Replacement-Lamp (#129 and #207) | 80 | 129-E1 | 0,2 |

## OPTIONAL EQUIPMENT (not included in delivery)

| Article | Code |
|---|---|
| Floor flange for #129 and #207 | 129-E2 |
| Pair plastic clamps for #129 | 129-E4 |
| Pair plastic clamps for #207 | 207-E1 |



Floor flange

Plastic clamps

# UV-C TECH DISINFECTION SYSTEMS

with timer

Plug-in device timer with LED display and operating hours counter

- housing stainless steel AISI316 / connection ABS
- 2 x 63/50 mm slip connection, alternatively 2 x 1½" internal thread
- 230 V

2 years manufacturer's warranty
except lamp and quartz glass

| | 40 Watt | 75 Watt | 130 Watt |
|---|---|---|---|
| Max. pool vloume | 45 m³ | 75 m³ | 90 m³ |
| Lamp | 1x low pressure lamp PHILIPS TUV 36T5 4P-SE 40W | 1x low pressure lamp PHILIPS TUV 36T5 HO 4P-SE 75W | 1x low pressure lamp PHILIPS TUV 130W 48-SE Amalgam |
| Max. service life of lamp | 9.000 h | 9.000 h | 16.000 h |
| Power consumption | 40 W | 75 W | 130 W |
| Wavelenght | 253,7 nm | 253,7 nm | 253,7 nm |
| Voltage | 230 V AC 50/60 Hz | 230 V AC 50/60 Hz | 230 V AC 50/60 Hz |
| Current consumption | 0,29 A | 0,57 A | 1,1 A |
| Material: housing | stainless steel 316L | stainless steel 316L | stainless steel 316L |
| Max. pressure | 2 bar | 2 bar | 2 bar |
| Water temperature | 10 - 40 °C | 10 - 40 °C | 10 - 40 °C |
| Recommended flow | 11 m³/h | 16 m³/h | 22 m³/h |
| Max. pool size | 45 m³ | 65 m³ | 90 m³ |
| Time counter | yes | yes | yes |
| Diameter | 70 mm | 70 mm | 70 mm |
| Length | 1000 mm | 1000 mm | 1000 mm |

#205, 206, 128

| Max. pool content | Watt | Length (cm) | Code | kg |
|---|---|---|---|---|
| 45 m³ | 40 | 100 | 205 | 4,1 |
| 75 m³ | 75 | 100 | 206 | 4,3 |
| 90 m³ | 130 | 100 | 128 | 6,0 |

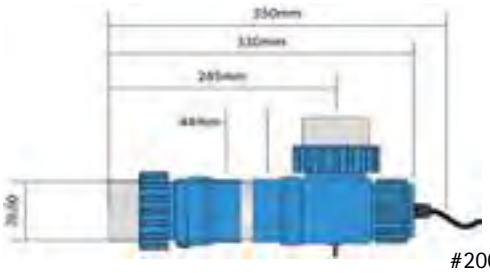
## REPLACEMENT-UV-LAMP

| Article | Watt | Code | kg |
|---|---|---|---|
| Replacement-Lamp Philips | 40 | 205-E1 | 0,5 |
| Replacement-Lamp Philips | 75 | 206-E1 | 0,5 |
| Replacement-Lamp Philips | 130 | 128-E1 | 0,5 |

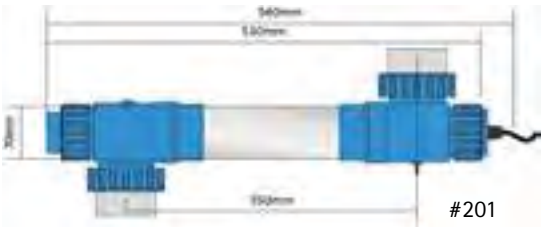
## UV-C TECH DISINFECTION SYSTEMS

- housing stainless steel 316 / connections PVC
- 2 x 63/50 mm slip connection, alternatively 2 x 1½" internal thread
- 230 V

| | 12 Watt | 16 Watt | 40 Watt | 75 Watt | 130 Watt |
|---|---|---|---|---|---|
| Max. pool volume | 12 m³ (Whirpool) | 20 m³ | 45 m³ | 65 m³ | 90 m³ |
| Lamp | 1x low pressure lamp PHILIPS PLS 12W | 1x low pressure lamp T5 16W 4P | 1x low pressure lamp T5 40W 4P | 1x low pressure lamp T5 75W 4P | 1x low pressure lamp PHILIPS 130W Amalgam |
| Max. service life of lamp | 9.000 h | 9.000 h | 9.000 h | 9.000 h | 16.000 h |
| Power consumption | 12 W | 16 W | 40 W | 75 W | 130 W |
| Wavelenght | 253,7 nm | 253,7 nm | 253,7 nm | 253,7 nm | 253,7 nm |
| Voltage | 230 V AC 50/60 Hz | 230 V AC 50/60 Hz | 230 V AC 50/60 Hz | 230 V AC 50/60 Hz | 230 V AC 50/60 Hz |
| Current consumption | 0,25 A | 0,29 A | 0,29 A | 0,57 A | 1,1 A |
| Material: housing | stainless steel 316L | stainless steel 316L | stainless steel 316L | stainless steel 316L | stainless steel 316L |
| Max. pressure | 2 bar | 2 bar | 2 bar | 2 bar | 2 bar |
| Water temperature | 10 - 40 °C | 10 - 40 °C | 10 - 40 °C | 10 - 40 °C | 10 - 40 °C |
| Recommended flow | 3 m³/h | 5 m³/h | 11 m³/h | 16 m³/h | 22 m³/h |
| Max. pool size | 12 m³ | 20 m³ | 45 m³ | 65 m³ | 90 m³ |
| Time counter | no | no | no | no | no |
| Diameter | 70 mm | 70 mm | 70 mm | 70 mm | 70 mm |
| Length | 420 mm | 560 mm | 1000 mm | 1000 mm | 1000 mm |


#200

2 years manufacturer's warranty
except lamp and quartz glass


#201

#202, 203, 204

| Max. pool volume | Watt | Length (cm) | Code | kg |
|---|---|---|---|---|
| 12 m³ (Whirlpool) | 12 | 40,5 | 200 | 1,6 |
| 20 m³ | 16 | 56 | 201 | 2,8 |
| 45 m³ | 40 | 100 | 202 | 3,6 |
| 65 m³ | 75 | 100 | 203 | 3,9 |
| 90 m³ | 130 | 100 | 204 | 5,0 |

## REPLACEMENT-UV-LAMP

| Article | Watt | Code | kg |
|---|---|---|---|
| Replacement-Lamp PL-S | 12 | 200-E1 | 0,5 |
| Replacement-Lamp T5 | 16 | 201-E1 | 0,5 |
| Replacement-Lamp T5 | 40 | 202-E1 | 0,5 |
| Replacement-Lamp T5 | 75 | 203-E1 | 0,5 |
| Replacement-Lamp Philips | 130 | 204-E1 | 0,5 |

- housing PVC / connections PVC
- UV-resistant coated
- suitable for saltwater)*
- 2 x 63/50 mm slip connection, alternatively 2 x 1½" internal thread
- 230 V

2 years manufacturer's warranty
except lamp and quartz glass

| | 202B | 203B |
|---|---|---|
| Max. pool volume | 45 m³ | 65 m³ |
| Lamp | 1x low pressure lamp PHILIPS SMART CAP 40W | 1x low pressure lamp PHILIPS SMART CAP 75W |
| Max. service life of lamp | 9.000 h | 9.000 h |
| Power consumption | 40 W | 75 W |
| Wavelenght | 253,7 nm | 253,7 nm |
| Voltage | 230 V AC 50/60 Hz | 230 V AC 50/60 Hz |
| Current consumption | 0,42 A | 0,8 A |
| Material: housing | PVC (UV-C stable) | PVC (UV-C stable) |
| Max. pressure | 2 bar | 2 bar |
| Water temperature | 10 - 40 °C | 10 - 40 °C |
| Recommended flow | 9 m³/h | 14 m³/h |
| Max. pool size | 45 m³ | 65 m³ |
| Time counter | no | no |
| Diameter | 70 mm | 70 mm |
| Length | 1000 mm | 1000 mm |

#202B, 203B

| Max. pool volume | Watt | Length (cm) | Code | kg |
|---|---|---|---|---|
| 45 m³ | 40 | 100 | 202B | 3,0 |
| 65 m³ | 75 | 100 | 203B | 3,2 |

## REPLACEMENT-UV-LAMP

| Article | Watt | Code | kg |
|---|---|---|---|
| Replacement-Lamp T5 | 40 | 202-E1 | 0,5 |
| Replacement-Lamp T5 | 75 | 203-E1 | 0,5 |

* max. salt concentration: 35 g/l

# 03

# WATER HEATING & DEHUMIDIFIERS



*The trend and demand for heat pumps is increasing every year. Pleasant water temperatures between 25 ° C and 29 ° C enhance wellbeing and invite you to relax. The balanced range of MIDAS heat pumps always meets the increasing customer requirements: The devices should heat effectively and economically, and work with little noise. At MIDAS, your wishes for the most modern full inverter heat pump technology are fulfilled.*
*You can also conveniently retrofit the pool with all of our heat pump models at any time.*
*Heat exchangers and swimming pool dehumidifiers round off our product range for your own wellness oasis.*

## OVERVIEW


| | |
|---|---|
| 62 | Quick Overview of heat pumps |
| 64 | Full Inverter heat pump MIDA.Maxx |
| 66 | Full Inverter heat pump MIDA.Boost |
| 68 | Full Inverter heat pump MIDA.Force |
| 70 | Full Inverter heat pump MIDA.Joy |
| 72 | Heat pump MIDA.Black |
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| 84 | Pool dehumidifiers |
| 87 | Heat exchangers |
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# QUICK OVERVIEW OF HEAT PUMPS

## STANDARD EQUIPMENT:

- titanium heat exchanger, ideal for salt water and chlorine
- digital display
- manometer
- cooling, heating and automatic function
- automatic defrosting device
- flow switch
- winter cover
- registered with WEEE registration no. DE 54436223 for recycling old devices

**Cooling function** **Heating function** **Automatic function**

# COMPARISON TABLE

| | MIDA.Maxx* Full-Inverter | MIDA.Boost* Full-Inverter | MIDA.Force* Full-Inverter | MIDA.Joy Full-Inverter | MIDA.Black* ON/OFF | MIDA.Quick ON/OFF |
|---|---|---|---|---|---|---|
| Temperature range | from -15°C up to + 43°C | from -15 °C up to + 43 °C | from -10 °C up to + 40 °C | from -5°C up to +43°C | from -10 °C bis + 40 °C | von -5 °C bis + 35 °C |
| Casing | stainless steel V2A (304) | ABS plastic | ABS plastic | ABS plastic | ABS plastic | stole galvanized |
| Sizes | 14-31 kW | 12-24 kW | 7-20 kW | 7-17 kW | 8-26 kW | 4-26 kW |
| fan orientation | vertical | horizontal | horizontal | horizontal | horizontal | horizontal |
| Max. Pool volume | approx 180 m³ | approx 120 m³ | approx 95 m³ | approx 75 m³ | approx 150 m³ | approx 135 m³ |
| WiFi included | yes | yes | yes | no | no | no |
| WiFi optional | - | - | - | yes | yes | yes |
| Refrigerant | **R32** | **R32** | **R32** | **R32** | **R32** | **R410A** |
| Display | 5" color Touchscreen LCD | 5" color Touchscreen LCD | 4.7" glass touch LED display B/W | 4.7" glass touch LED display B/W | LED | LED |
| Min./max. Water temperature | +8 °C / +43 °C | +8 °C / +43 °C | +8 °C / +43 °C | +8 °C / +35 °C | +8 °C / +40 °C | +8 °C / +40 °C |

**New and environmentally friendly Refrigerant R32**

***Sales only through specialist dealers**

Other models and sizes on request

# FULL-INVERTER HEAT PUMPS



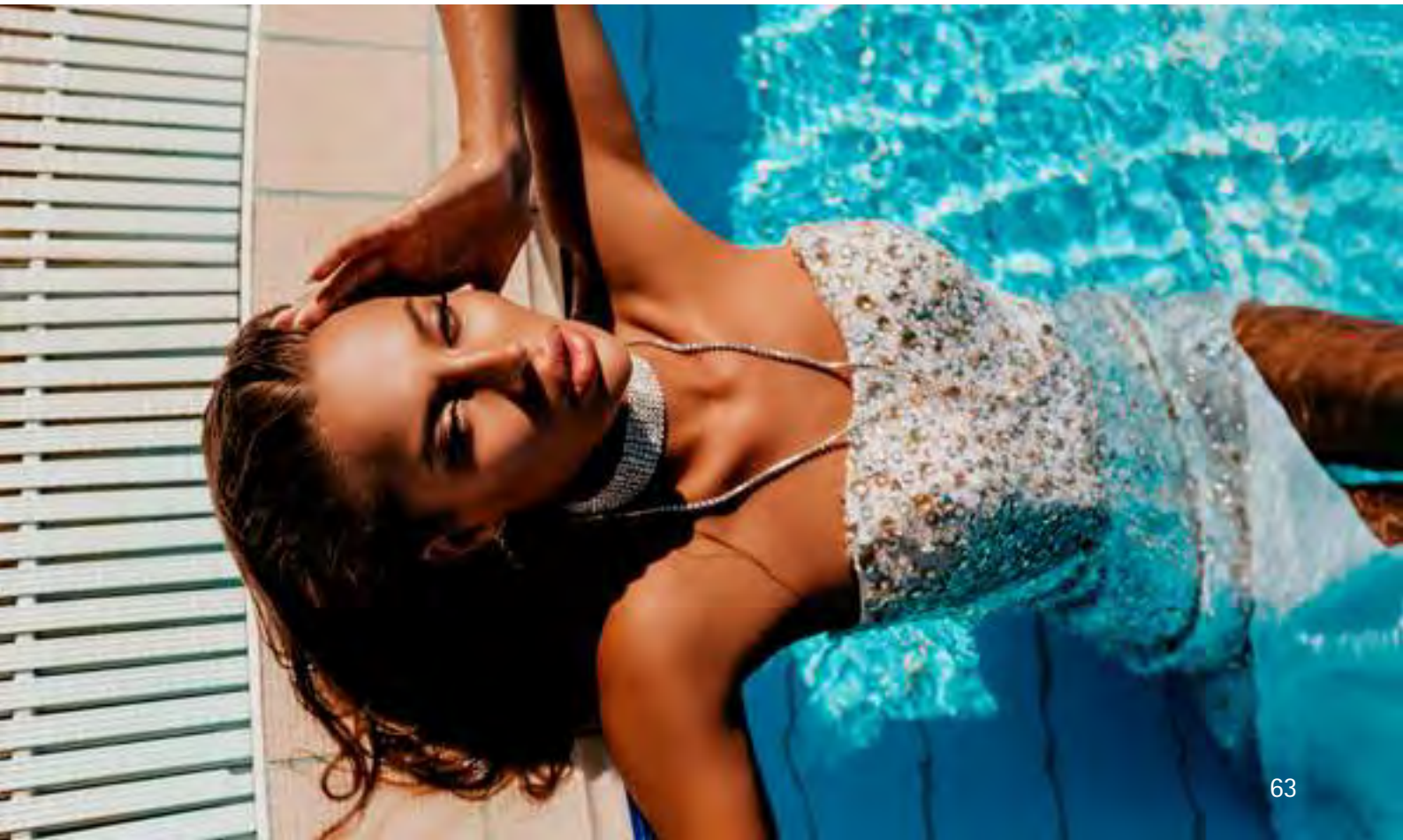
## HIGHLY EFFICENT AND ENERGY SAVING

With the heat pump MIDA.Maxx, MIDA.Boost, MIDA.Force and MIDA.Joy you decide to use the technically advanced solution of the Inverter technology. In this technology, the compressor speed adapts continously from 20 - 95 Hz precisely to the required cooling or heating demand. Through this effective regulation, a particularly energy-saving and material-saving operation is achieved with a high seasonal performance factor in comparison to conventional heat pumps.
In addition, the heat pump operates very quietly. During the startup process, the inverter technology needs only 1/3 time compared to conventional system.

**Compared to standard heat pumps, MIDA.Maxx, MIDA.Boost, MIDA.Force and MIDA.Joy achieves a higher COP and requires a substantially shorter start-up time. This saves costs.**

**Which advantages are given with by Inverter Technology:**

- stepless control
- higher servicelife
- shorter starting curve of the heat pump
- less starting power is needed
- very quiet operation
- increased COP figures



# HEAT PUMPS

## FULL-INVERTER HEAT PUMP MIDA.Maxx

With protective housing for the display

FEATURES
- available in sizes from 14-31 kW
- COP up to 15.65
- operating range from -15 °C to +43 ° C
- pool volume up to approx. 180 m³ (depending on size)
- housing made of high quality stainless steel V2A / AISI 304
- stepless regulation
- separate silent mode possible (e.g. at noon or at night)
- separate modes: cooling, heating, automatic
- automatic defrosting device
- with titanium heat exchanger, excellent for salt water and chlorine
- with 5" color touchscreen LCD display
- including winter cover
- including flow switch
- max. Water temperature (operation) up to + 43 ° C
- R32 refrigerant
- manometer
- electrical protection: fuse slow (C-automat), RCCB 30 mA <0.1s

including Wifi-Adapter

#2603

R32

Full Inverter

WiFi

Laden im App Store

JETZT BEI Google Play

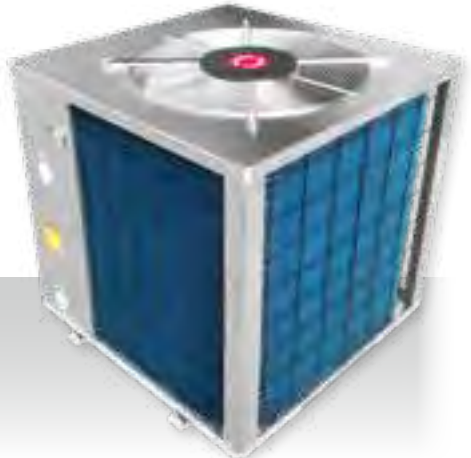
For accessories see catalog page 78

6 years warranty
on Mitsubishi-compressor

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request

## VERSIONS MIDA.Maxx

| | Type | MIDA.Maxx 14 | MIDA.Maxx 17 | MIDA.Maxx 25 | MIDA.Maxx 31 |
|---|---|---|---|---|---|
| | Air outlet | vertical | vertical | vertical | vertical |
| | Pool volume | max. 60 m³ | max. 85m³ | max. 130 m³ | max. 180 m³ |
| | Water flow (recommended) | 5,7 m³/h | 7,1 m³/h | 9,0 m³/h | 12,0 m³/h |
| | Connection | 50 mm on the right side | 50 mm on the right side | 50 mm on the right side | 50 mm on the right side |
| Measurement conditions Air temperature 27°C* Water temperature 26°C | Heating power | 3,66-13,48 kW 12,4-45,8 kBtu/h | 3,41-16,83 kW 11,6-57,2 kBtu/h | 5,49-24,26 kW 18,6-82,5 kBtu/h | 8,87-31,21 kW 30,2-106,1 kBtu/h |
| | Input power | 0,27-1,93 kW | 0,26-2,53 kW | 0,38-3,67 kW | 0,57-5,08 kW |
| | Operating current | 1,74-8,37 A | 1,5-11,1 A | 0,9-6,1 A | 1,2-8,2 A |
| | COP | 6,99-13,35 | 6,64-12,99 | 6,60-14,19 | 6,14-15,65 |
| Measurement conditions Air temperature 15°C* Water temperature 26°C | Heating power | 2,67-10,0 kW 9,1-34,0 kBtu/h | 2,72-12,72 kW 9,2-43,2 kBtu/h | 4,05-18,79 kW 13,7-63,9 kBtu/h | 6,55-23,60 kW 22,3-80,2 kBtu/h |
| | Input power | 0,43-2,01 kW | 0,40-2,53 kW | 0,57-3,71 kW | 0,79-4,73 kW |
| | Operating current | 1,89-8,73 A | 2,0-11,1 A | 1,2-6,1 A | 1,6-7,7 A |
| | COP | 4,98-6,19 | 5,03-6,77 | 5,06-7,1 | 5,0-8,23 |
| | Min. water temperature | +8 °C | +8 °C | +8 °C | +8 °C |
| | Safeguarding | 16 A | 16 A | 3 x 16 A | 3 x 16 A |
| | Voltage / frequency range | 230V/1 pH 20-70 Hz | 230V/1 pH 20-85 Hz | 400V/3 pH 20-85 Hz | 400V/3 pH 20-80 Hz |
| | Compressor brand | Mitsubishi | Mitsubishi | Mitsubishi | Mitsubishi |
| | Compressor | rotating | rotating | rotating | rotating |
| | Number of fans | 1 | 1 | 1 | 1 |
| | Cable cross section | 3 x 2,5 mm² | 3 x 4 mm² | 5 x 2,5 mm² | 5 x 2,5 mm² |
| | Noise pressure level[1] | 44-54 dB(A) | 46-56 dB(A) | 50-60 dB(A) | 53-62 dB(A) |
| | Noise pressure level[2] | 24-34 dB(A) | 26-36 dB(A) | 30-40 dB(A) | 33-43 dB(A) |
| | Protection class | IPX4 | IPX4 | IPX4 | IPX4 |
| | Refrigerant charge | R32/0,65 kg | R32/0,8 kg | R32/1,65 kg | R32/1,8 kg |
| | GWP-value | 675 | 675 | 675 | 675 |
| | Alternative placement display | possible | possible | possible | possible |
| | Refrigerant | R32 | R32 | R32 | R32 |
| | Net dimensions WxDxH | 723x835x865 mm | 723x835x865 mm | 770x990x970 mm | 920x960x1025 mm |
| | Shipping dimensions WxDxH | 773x885x915 mm | 773x885x915 mm | 820x1040x1000 mm | 970x1010x1075 mm |
| | Net weight | 723x835x865 mm | 723x835x865 mm | 770x990x970 mm | 920x960x1025 mm |
| | Delivery weight | 773x885x915 mm | 773x885x915 mm | 820x1040x1000 mm | 970x1010x1075 mm |
| | **Code** | **3140** | **3141** | **3142** | **3143** |



1) measured sound pressure level at 10 m (22 - 84 Hz)

2) measured sound pressure level at 1 m (22 - 85 Hz)

* at 70% - 80% humidity

## FULL-INVERTER HEAT PUMP MIDA.Boost

With protective housing for the display

#3130 + #3131

FEATURES
- available in sizes from 12 – 24 kW
- COP value up to 13,57
- operating range from -15°C to +43°C
- pool volume about 120 m³ (depending on size)
- housing made of ABS plastic, color: white/black
- stepless regulation
- separate silent mode possible (e.g. at noon or at night)
- operating modes: cooling, heating, automatic
- automatic defrosting
- with titanium heat exchanger, excellent suitable for salt water and chlorine
- with 5" color touchscreen LCD display
- incl. winter cover
- incl. flow switch
- max. water temperature (operation) +43°C
- refrigerant R32
- manometer
- electrical protection: fuse slow (C-machine), RCCB 30mA <0.1s

R32

Full Inverter

TÜVRheinland

For accessories see catalog page 78

6 years warranty
on Mitsubishi-compressor

including Wifi-Adapter

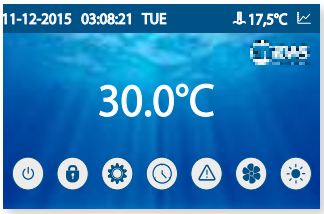
#2603

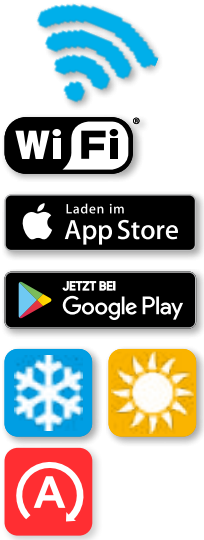
MIDA.Boost 24

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request.

## VERSIONS MIDA.Boost

| | Type | MIDA.Boost 12 | MIDA.Boost 18 | MIDA.Boost 24 |
|---|---|---|---|---|
| | Air outlet | horizontal | horizontal | horizontal |
| | Pool volume | max. 60 m³ | max. 75 m³ | max. 120 m³ |
| | Water flow (recommended) | 4,2 m³/h | 5,3 m³/h | 8,6 m³/h |
| | Connection | 50 mm on the back | 50 mm on the back | 50 mm on the back |
| Measurement conditions<br>Air temperature 27 °C**<br>Water temperature 26 °C | Heating power | 2,85 – 12 kW /<br>9,69 – 40,8 kBtu/h | 3,77 – 17 kW /<br>12,58 – 57,8 kBtu/h | 5,7 – 24,2 kW /<br>19,38 – 82,38 kBtu/h |
| | Input power | 0,21 – 2,12 kW | 0,3 – 3,02 kW | 0,46 – 4,8 kW |
| | Operating current | 0,95 – 9,2 A | 1,3 – 13,1 A | 3 x 2,3 – 8,5 A |
| | COP | 5,66 – 13,57 | 5,63 – 12,57 | 5,04 – 12,39 |
| Measurement conditions<br>Air temperature 15 °C*<br>Water temperature 26 °C | Heating power | 2,25 – 9,7 kW /<br>7,65 – 32,98 kBtu/h | 2,92 – 12,4 kW /<br>9,93 – 42,16 kBtu/h | 4,68 – 19,9 kW /<br>15,91 – 67,66 kBtu/h |
| | Input power | 0,32 – 2,08 kW | 0,44 – 2,86 kW | 0,72 – 4,74 kW |
| | Operating current | 1,4 – 9 A | 2 – 12,4 A | 3 x 1,8 – 8 A |
| | COP | 4,66 – 7,03 | 4,34 – 6,64 | 4,2 – 6,5 |
| | Min. water temperature | +8 °C | +8 °C | +8 °C |
| | Safeguarding | 16 A | 16 A | 3 x 16 A |
| | Voltage / frequency range | 230 V / 1 ph<br>20–65 Hz | 230 V / 1 ph<br>20–85 Hz | 400 V / 3 ph<br>20–70 Hz |
| | Compressor brand | Mitsubishi | Mitsubishi | Mitsubishi |
| | Compressor | rotating | rotating | rotating |
| | Number of fans | 1 | 1 | 2 |
| | Cable cross section | 3 x 2,5 mm² | 3 x 2,5 mm² | 5 x 2,5 mm² |
| | Noise pressure level[1] | 22–32 dB(A) | 24–33 dB(A) | 26–37 dB(A) |
| | Noise pressure level[2] | 42–52 dB(A) | 44–53 dB(A) | 46–57 dB(A) |
| | Protection class | IPX4 | IPX4 | IPX4 |
| | Refrigerant charge | 0,65 kg | 0,8 kg | 1,2 kg |
| | GWP-value | 675 | 675 | 675 |
| | Alternative placement display | possible | possible | possible |
| | Net dimensions WxDxH | 1046 x 453 x 768 mm | 1161 x 490 x 868 mm | 1161 x 470 x 1274 mm |
| | Shipping dimensions WxDxH | 1130 x 480 x 780 mm | 1210 x 510 x 880 mm | 1210 x 495 x 1300 mm |
| | Net weight | 65 kg | 75 kg | 117 kg |
| | Delivery weight | 80 kg | 90 kg | 137 kg |
| | **Code** | **3130** | **3131** | **3132** |




1) measured sound pressure level at 10 m (22 - 85 Hz) 2) measured sound pressure level at 1 m (22 - 85 Hz) * at 70% humidity ** at 80% humidity

# FULL-INVERTER HEAT PUMP MIDA.Force

With protective housing for the display

FEATURES

- available in sizes from 7-20 kW
- COP value up to 11,25
- operating range from -10°C to +40°C
- pool volume about 95 m³ (depending on size)
- housing made of ABS plastic, color: black
- stepless regulation
- operating modes: cooling, heating, automatic
- automatic defrosting
- with titanium heat exchanger, excellent suitable for salt water and chlorine
- with 4,7" glass touch LCD display b/w
- incl. winter cover
- incl. flow switch
- max. water temperature (operation) +43 °C
- refrigerant R32
- manometer
- electrical protection: fuse slow (C-machine), RCCB 30mA <0.1s

including Wifi-Adapter

#2603

R32

Full Inverter

WiFi

Laden im App Store

JETZT BEI Google Play

For accessories see catalog page 78

6 years warranty
on Mitsubishi-compressor

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request.

## VERSIONS MIDA.Force

| | Type | MIDA.Force 7 | MIDA.Force 12 | MIDA.Force 17 | MIDA.Force 20 |
|---|---|---|---|---|---|
| | Air outlet | horizontal | horizontal | horizontal | horizontal |
| | Pool volume | max. 35 m³ | max. 60 m³ | max. 75 m³ | max. 95 m³ |
| | Water flow (recommended) | 2,4 m³/h | 3,0 m³/h | 4,9 m³/h | 6 m³/h |
| | Connection | 50 mm on the back | 50 mm on the back | 50 mm on the back | 50 mm on the back |
| Measurement conditions Air temperature 27°C* Water temperature 26°C | Heating power | 1,12-6,80 kW | 1,80-11,90 kW | 3,25-16,80 kW | 3,5-19,7 kW |
| | Input power | 0,11-1,27 kW | 0,16-1,92 kW | 0,30-2,91 kW | 0,32-3,65 kW |
| | Operating current | 1,14-5,81 A | 1,08-8,96 A | 1,30-12,65 A | 1,33-15,8 A |
| | COP | 5,35-10,18 | 6,19-11,25 | 5,77-10,83 | 5,39-10,94 |
| Measurement conditions Air temperature 15°C* Water temperature 26°C | Heating power | 0,95-5,5 kW | 1,60-8,40 kW | 2,55-12,60 kW | 2,55-14,0 kW |
| | Input power | 0,21-1,25 kW | 0,26-1,81 kW | 0,44-2,80 kW | 0,47-3,24 kW |
| | Operating current | 0,91-5,43 A | 1,13-7,86 A | 1,91-12,17 A | 2,04-14,08 A |
| | COP | 4,40-5,70 | 4,64-6,15 | 4,50-5,80 | 5,43-4,32 |
| | Min. water temperature | +8 °C | +8 °C | +8 °C | +8 °C |
| | Safeguarding | 10 A | 16 A | 16 A | 20 A |
| | Voltage / frequency range | 230 V/1 pH 20–70 Hz | 230 V/1 pH 20–95 Hz | 230 V/1 pH 20–85 Hz | 230 V/1 pH 20-95 Hz |
| | Compressor brand | Mitsubishi | Mitsubishi | Mitsubishi | Mitsubishi |
| | Compressor | rotating | rotating | rotating | rotating |
| | Number of fans | 1 | 1 | 1 | 1 |
| | Cable cross section | 3 x 2,5 mm² | 3 x 2,5 mm² | 3 x 2,5 mm² | 3 x 2,5 mm² |
| | Noise pressure level[1] | 19-29 dB(A) | 22-32 dB(A) | 24-33 dB(A) | 24-34 dB(A) |
| | Noise pressure level[2] | 38-50 dB(A) | 42-53 dB(A) | 43-54 dB(A) | 43-55 dB(A) |
| | Protection class | IPX4 | IPX4 | IPX4 | IPX4 |
| | Refrigerant charge | 0,35 kg | 0,48 kg | 0,60 kg | 0,67 kg |
| | GWP-value | 675 | 675 | 675 | 675 |
| | Alternative placement display | possible | possible | possible | possible |
| | Refrigerant | R32 | R32 | R32 | R32 |
| | Net dimensions WxDxH | 1000 x 418 x 605 mm | 1000 x 418 x 605 mm | 1046 x 435 x 767 mm | 1160 x 490 x 862 mm |
| | Shipping dimensions WxDxH | 1030 x 435 x 615 mm | 1030 x 435 x 615 mm | 1130 x 480 x 780 mm | 1210 x 510 x 880 mm |
| | Net weight | 42 kg | 46 kg | 60 kg | 70 kg |
| | Delivery weight | 51 kg | 55 kg | 73 kg | 88 kg |
| | **Code** | **3120** | **3121** | **3122** | **3123** |

1) measured sound pressure level at 10 m (20 - 85 Hz) 2) measured sound pressure level at 1 m (20 - 85 Hz) * at 70% humidity ** at 80% humidity

## FULL-INVERTER HEAT PUMP MIDA.Joy

With protective housing for the display

FEATURES
- available in sizes from 7-17 kW
- COP value up to 11.25
- operating range from -5 °C to + 43 °C
- pool volume up to approx. 75 m³ (depending on size)
- housing made of ABS plastic, color: gray
- stepless regulation
- operating modes: cooling, heating, automatic
- automatic defrosting device
- with titanium heat exchanger, excellent suitable for salt water and chlorine
- with 4.7" glass touch LED display b/w
- including winter cover
- including flow switch
- max. Water temperature (operation) up to +35 °C
- refrigerant R32
- manometer
- electrical protection: fuse slow (C-automat), RCCB 30 mA <0.1s

WiFi adapter optional

#2603

R32

Full Inverter

For accessories see catalog page 78

6 years warranty
on Panasonic-Kompressor &
on Hitachi-Kompressor

WiFi

Laden im App Store

JETZT BEI Google Play

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request.

## VERSIONS MIDA.Joy

| | Type | MIDA.Joy 7 | MIDA.Joy 12 | MIDA.Joy 17 |
|---|---|---|---|---|
| | Air outlet | horizontal | horizontal | horizontal |
| | Pool volume | max. 35 m³ | max. 60 m³ | max. 75 m³ |
| | Water flow (recommended) | 2.4 m³/h | 4.1 m³/h | 5.2 m³/h |
| | Connection | 50 mm on the back | 50 mm on the back | 50 mm on the back |
| Measurement conditions Air temperature 27°C* Water temperature 26°C | Heating power | 1,12-6,80 kW | 1,80-11,90 kw | 3,25-16,80 kW |
| | Input power | 0,11-1,27 kW | 0,16-1,92 kW | 0,30-2,91 kW |
| | Operating current | 1,14-5,81 A | 1,08-8,96 A | 1,30-12,65 A |
| | COP | 5,35-10,18 | 6,19-11,25 | 5,77-10,83 |
| Measurement conditions Air temperature 15°C* Water temperature 26°C | Heating power | 0,95-5,5 kW | 1,60-8,40 kW | 2,55-12,60 kW |
| | Input power | 0,21-1,25 kW | 0,26-1,81 kW | 0,44-2,80 kW |
| | Operating current | 0,91-5,43 A | 1,13-7,86 A | 1,91-12,17 A |
| | COP | 4,40-5,70 | 4,64-6,15 | 4,50-5,80 |
| | Min. water temperature | +8 °C | +8 °C | +8 °C |
| | Safeguarding | 10 A | 16 A | 16 A |
| | Voltage / frequency range | 230V/1pH 20-65 Hz | 230V/1ph 20-90 Hz | 230V/1ph 20-85 Hz |
| | Compressor brand | Panasonic | Panasonic | Mitsubishi |
| | Compressor | rotating | rotating | rotating |
| | Number of fans | 1 | 1 | 1 |
| | Cable cross section | 3 x 2,5 mm² | 3 x 2,5 mm² | 3 x 2,5 mm² |
| | Noise pressure level[1] | 19-29 dB(A) | 22-32 dB(A) | 24-33 dB(A) |
| | Noise pressure level[2] | 38-50 dB(A) | 42-53 dB(A) | 43-54 dB(A) |
| | Protection class | IPX4 | IPX4 | IPX4 |
| | Refrigerant charge | 0,35 kg | 0,45 kg | 0,65 kg |
| | GWP-value | 675 | 675 | 675 |
| | Alternative placement display | possible | possible | possible |
| | Refrigerant | R32 | R32 | R32 |
| | Net dimensions WxDxH | 1000 x 418 x 605 mm | 1000 x 418 x 605 mm | 1046 x 435 x 767 mm |
| | Shipping dimensions WxDxH | 1030 x 435 x 615 mm | 1030 x 435 x 615 mm | 1130 x 480 x 780 mm |
| | Net weight | 47 kg | 51 kg | 66 kg |
| | Delivery weight | 58 kg | 62 kg | 79 kg |
| | **Code** | **3110** | **3111** | **3112** |

1) measured sound pressure level at 10 m (20 - 85 Hz) 2) measured sound pressure level at 1 m (20 - 85 Hz) * at 70% humidity ** at 80% humidity

# HEAT PUMP MIDA.Black ON/OFF

R32

Wifi adapter optional

WiFi

Laden im App Store

JETZT BEI Google Play

## VERSIONS MIDA.Black

| | Type | MIDA.Black 8 | MIDA.Black 11 | MIDA.Black 14 |
|---|---|---|---|---|
| | Air outlet | horizontal | horizontal | horizontal |
| | Pool volume | max. approx. 30 m³ | max. approx. 55 m³ | max. approx. 55 m³ |
| | Water flow (recommended) | 5,0 m³/h | 6,0 m³/h | 6,0 m³/h |
| | Connection | 50 mm on the back | 50 mm on the back | 50 mm on the back |
| Measurement conditions Air temperature 24°C* Water temperature 26°C | Heating power | 7,6 kW/25,9 kBtu/h | 10,7 kW/36,5 kBtu/h | 10,7 kW/36,5 kBtu/h |
| | Input power | 1,36 kW | 1,96 kW | 1,96 kW |
| | Operating current | 6,22 A | 9,01 A | 9,01 A |
| | COP | 5,6 | 5,5 | 5,5 |
| Measurement conditions Air temperature 15°C* Water temperature 26°C | Heating power | 6,1 kW/20,7 kBtu/h | 8,4 kW/28,7 kBtu/h | 8,4 kW/28,7 kBtu/h |
| | Input power | 1,21 kW | 1,79 kW | 1,79 kW |
| | Operating current | 5,55 A | 8,19 A | 8,19 A |
| | COP | 5,0 | 4,7 | 4,7 |
| | Min. water temperature | +8 °C | +8 °C | +8 °C |
| | Safeguarding | 16 A | 16 A | 16 A |
| | Voltage / frequency range | 230 V/1 pH/50 Hz | 230 V/1 pH/50 Hz | 230 V/1 pH/50 Hz |
| | Compressor brand | Gree | Gree | Gree |
| | Compressor | rotating | rotating | rotating |
| | Number of fans | 1 | 1 | 1 |
| | Cable cross section | 3 x 2,5 mm² | 3 x 2,5 mm² | 3 x 4,0 mm² |
| | Noise pressure level[1] | 38 dB(A) | 38 dB(A) | 40 dB(A) |
| | Noise pressure level[2] | 52 dB(A) | 52 dB(A) | 55 dB(A) |
| | Protection class | IPX4 | IPX4 | IPX4 |
| | Refrigerant charge | 0,75 kg | 0,9 kg | 1,0 kg |
| | GWP-value | 675 | 675 | 675 |
| | Alternative placement display | possible | possible | possible |
| | Display extension | incl. 10 m Cable | incl. 10 m Cable | incl. 10 m Cable |
| | Net dimensions WxDxH | 970 x 360 x 585 mm | 1045 x 370 x 625 mm | 1110 x 416 x 711 mm |
| | Shipping dimensions WxDxH | 1060 x 380 x 615 mm | 1130 x 390 x 665 mm | 1150 x 450 x 840 mm |
| | Net weight | 48 kg | 54 kg | 68 kg |
| | Delivery weight | 55 kg | 62 kg | 81 kg |
| | **Code** | **2950** | **2951** | **2952** |

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request.



1) measured sound pressure level at 10 m 2) measured sound pressure level at 1 m * at 60-70% humidity

FEATURES

- available in sizes from 8 – 26 kW
- COP value up to 4,5-6,6
- operating range from -10°C to +40°C
- pool volume about 150 m³ (depending on size)
- housing made of ABS plastic, color: black
- operating modes: cooling, heating, automatic
- automatic defrosting
- with titanium heat exchanger, excellent suitable for salt water and chlorine
- with LED-Display
- incl. winter cover
- incl. flow switch
- max. water temperature (operation) +40°C
- refrigerant R32
- manometer
- electrical protection: fuse slow (C-machine), RCCB 30mA <0.1s

For accessories see catalog page 78

| MIDA.Black 17 | MIDA.Black 21 | MIDA.Black 26 |
|---|---|---|
| horizontal | horizontal | horizontal |
| max. approx. 95 m³ | max. approx. 120 m³ | max. approx. 150 m³ |
| 10,0 m³/h | 12,0 m³/h | 15,0 m³/h |
| 50 mm on the back | 50 mm on the back | 50 mm on the back |
| 17,1 kW/ 58,4 kBtu/h | 20,6 kW/ 70,3 kBtu/h | 24,6 kW/ 83,6 kBtu/h |
| 2,74 kW | 3,14 kW | 3,94 kW |
| 3x5,97 A | 3 x 7,36 A | 3 x 8,29 A |
| 6,3 | 6,6 | 6,2 |
| 13,9 kW/ 47,5 kBtu/h | 7,92 kW/ 61,1 kBtu/h | 20,7 kW/ 70,6 kBtu/h |
| 2,72 kW | 3,57 kW | 4,26 kW |
| 3x5,89 A | 3 x 7,45 A | 3 x 8,66 A |
| 5,1 | 5,0 | 4,9 |
| +8 °C | +8 °C | +8 °C |
| 3x10 A | 3 x 16 A | 3 x 16 A |
| 400 V / 3 ph / 50 Hz | 400 V / 3 ph / 50 Hz | 400 V / 3 ph / 50 Hz |
| Gree | Gree | Gree |
| rolling | rolling | rolling |
| 1 | 1 | 2 |
| 5x 2,5 mm² | 5 x 2,5 mm² | 5 x 2,5 mm² |
| 41 dB(A) | 42 dB(A) | 42 dB(A) |
| 59 dB(A) | 60 dB(A) | 60 dB(A) |
| IPX4 | IPX4 | IPX4 |
| 1,1 kg | 1,45 kg | 1,75 kg |
| 675 | 675 | 675 |
| possible | possible | possible |
| incl. 10 m Cable | incl. 10 m Cable | incl. 10 m Cable |
| 1110 x 416 x 711 mm | 1110 x 446 x 958 mm | 1110 x 446 x 1260 mm |
| 1150 x 450 x 840 mm | 1150 x 475 x 1088 mm | 1150 x 475 x 1388 mm |
| 84 kg | 100 kg | 118 kg |
| 97 kg | 117 kg | 136 kg |
| **2953** | **2954** | **2955** |

MIDA.Black 26

**5** years warranty
on GREE-compressor

# HEAT PUMP MIDA.Quick ON/OFF

Wifi adapter optional

R410A

WiFi

Laden im App Store

JETZT BEI Google Play

## VERSIONS MIDA.Quick

| | Type | MIDA.Quick 4 | MIDA.Quick 7 | MIDA.Quick 10 | MIDA.Quick 13 |
|---|---|---|---|---|---|
| | Air outlet | horizontal | horizontal | horizontal | horizontal |
| | Pool volume | max. ca.10 m³ | max. ca. 20 m³ | max. ca. 45 m³ | max. ca. 60 m³ |
| | Water flow (recommended) | 1,5 m³/h | 2,3 m³/h | 4,5 m³/h | 5,3 m³/h |
| | Connection | 50 mm on the back | 50 mm on the back | 50 mm on the back | 50 mm on the back |
| Measurement conditions Air temperature 24°C* Water temperature 26°C | Heating power | 3,5 kW/ 11,9 kBtu/h | 6,7 kW/ 22,7 kBtu/h | 9,5 kW/ 32,4 kBtu/h | 12,5 kW/ 42,65 kBtu/h |
| | Input power | 0,76 kW | 1,31 kW | 1,9 kW | 2,8 kW |
| | Operating current | 3,5 A | 5,69 A | 8,7 A | 12,8 A |
| | COP | 4,6 | 5,1 | 5,0 | 4,5 |
| Measurement conditions Air temperature 15°C* Water temperature 26°C | Heating power | 2,6 kW/ 8,9 kBtu/h | 4,2 kW/ 14,2 kBtu/h | 7,1 kW/ 24,2 kBtu/h | 9,4 kW/ 32,4 kBtu/h |
| | Input power | 0,7 kW | 0,97 kW | 1,8 kW | 2,3 kW |
| | Operating current | 3,0 A | 4,21 A | 8,2 A | 10,7 A |
| | COP | 3,7 | 4,3 | 4,0 | 4,1 |
| | Min. water temperature | +8 °C | +8 °C | +8 °C | +8 °C |
| | Safeguarding | 10 A | 10 A | 16 A | 20 A |
| | Voltage / frequency range | 230 V / 1 ph / 50 Hz | 230 V / 1 ph / 50 Hz | 230 V / 1 ph / 50 Hz | 230 V / 1 ph / 50 Hz |
| | Compressor brand | GREE | GREE | GREE | GREE |
| | Compressor | rotating | rotating | rotating | rotating |
| | Number of fans | 1 | 1 | 1 | 1 |
| | Cable cross section | 3 x 1,5 mm² | 3 x 1,5 mm² | 3 x 2,5 mm² | 3 x 2,5 mm² |
| | Noise pressure level[1] | 35 dB(A) | 38 dB(A) | 40 dB(A) | 40 dB(A) |
| | Noise pressure level[2] | 47 dB(A) | 51 dB(A) | 53 dB(A) | 53 dB(A) |
| | Protection class | IPX4 | IPX4 | IPX4 | IPX4 |
| | Refrigerant charge | 0,37 kg | 0,6 kg | 0,85 kg | 1,0 kg |
| | GWP-value | 2088 | 2088 | 2088 | 2088 |
| | Alternative placement display | possible | possible | possible | possible |
| | Net dimensions WxDxH | 811 x 305 x 583 mm | 811 x 305x 583mm | 974 x 385 x 605 mm | 974 x 385 x 605 mm |
| | Shipping dimensions WxDxH | 910 x 310 x 590 mm | 910x 310x 590 mm | 1070 x 390 x 615 mm | 1070 x 390 x 615 mm |
| | Net weight | 35 kg | 39 kg | 58 kg | 63 kg |
| | Delivery weight | 39 kg | 43 kg | 62 kg | 70 kg |
| | **Code** | **2700** | **2708** | **2703** | **2704** |

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request.

1) Measured sound pressure level at 10 m 2) Measured sound pressure level at 1 m * at 60-70% humidity

FEATURES

- available in sizes from 4-26 kW
- COP-value up to 3,7 – 5,9
- operating range from -5°C to +35°C
- pool volume about 135 m³ (depending on size)
- housing made of stainless steel V4A / AISI 316, color: RAL 7016 anthracite gray
- operating modes: cooling, heating, automatic
- automatic defrosting
- with titanium heat exchanger, excellent suitable for salt water and chlorine
- with LED-Display
- incl. winter cover
- incl. flow switch
- max. water temperature (operation) +40°C
- refrigerant R410 A
- manometer
- electrical protection: fuse slow (C-machine), RCCB 30mA <0.1s

**For accessories see catalog page 78**

| MIDA.Quick 17 | MIDA.Quick 21 | MIDA.Quick 26 |
|---|---|---|
| horizontal | horizontal | horizontal |
| max. ca. 95 m³ | max. ca. 120 m³ | max. ca. 135 m³ |
| 6,0 m³/h | 8,0 m³/h | 7,9 m³/h |
| 50 mm on the back | 50 mm at the side | 50 mm at the side |
| 15,8 kW/ 53,91 kBtu/h | 18,6 kW/ 63,46 kBtu/h | 25,0 kW/ 85,0 kBtu/h |
| 2,7 kW | 3,2 kW | 5,0 kW |
| 13,3 A | 15,6 A | 3 x 8,3 A |
| 5,9 | 5,9 | 5,0 |
| 12,5 kW/ 42,65 kBtu/h | 15,4 kW/ 52,54 kBtu/h | 18,4 kW/ 62,78 kBtu/h |
| 2,5 kW | 3,0 kW | 4,1 kW |
| 12,6 A | 15,1 A | 3 x 7,9 A |
| 4,9 | 5,1 | 4,5 |
| +8 °C | +8 °C | +8 °C |
| 20 A | 20 A | 3 x 10 A |
| 230 V / 1 ph / 50 Hz | 230 V / 1 ph / 50 Hz | 400 V / 3 ph / 50 Hz |
| Mitsubishi | Sanyo | Sanyo |
| rolling | rolling | rolling |
| 1 | 2 | 2 |
| 3 x 4,0 mm² | 3 x 4,0 mm² | 5 x 2,5 mm² |
| 40 dB(A) | 40 dB(A) | 42 dB(A) |
| 53 dB(A) | 53 dB(A) | 58 dB(A) |
| IPX4 | IPX4 | IPX4 |
| 1,3 kg | 2,6 kg | 2,7 kg |
| 2088 | 2088 | 2088 |
| possible | possible | possible |
| 1134 x 475 x 845 mm | 1120 x 475 x 1240 mm | 1120 x 475 x 1240 mm |
| 1230 x 495 x 855 mm | 1200 x 490 x 1280 mm | 1200 x 490 x 1280 mm |
| 89 kg | 135 kg | 140 kg |
| 95 kg | 142 kg | 153 kg |
| **2705** | **2706** | **2707** |

MIDA.Quick 21 + 26

**5** years warranty
on GREE-compressor
on Mitsubishi-compressor
on Sanyo-compressor

# HEAT PUMP MIDA.Public

## VERSIONS MIDA.Public

| | Typ | MIDA.Public 55 | MIDA.Public 95 |
|---|---|---|---|
| | Air outlet | vertical | vertical |
| | Max. pool volume | 250 m³ | 440 m³ |
| | Water flow (recommended) | 25 m³/h | 28 m³/h |
| | Connection | 63 mm | 110 mm |
| **HEATING** | Heating power | 55 kW / 187,7 kBtu/h | 95 kW / 324,1 kBtu/h |
| Measurement conditions | Input power | 9,65 kW / 32,93 kBtu/h | 16,1 kW / 54,93 kBtu/h |
| Air temperature 24°C* | Operating current | 3 x 17,18 A | 3 x 28,8 A |
| Water temperature 26°C | COP | 5,7 | 5,9 |
| **HEATING** | Heating power | 38 kW / 129,7 kBtu/h | 62 kW / 211,5 kBtu/h |
| Measurement conditions | Input power | 12,3 kW / 41,97 kBtu/h | 15,4 kW / 52,55 kBtu/h |
| Air temperature 15°C* | Operating current | 3 x 20,1 A | 3 x 27,5 A |
| Water temperature 29°C | COP | 3 | 5,2 |
| **COOLING** | Cooling capacity | 29,70 kW / 101,34 kBtu/h | 37,25 kW / 127,09 kBtu/h |
| Measurement conditions | Consumed power | 11,80 kW / 40,26 | 17,75 kW / 60,56 kBtu/h |
| Air 35 °C** | Operating current | 3 x 20,26 A | 3 x 35,32 A |
| Water 30 °C | EER | 2,52 | 2,10 |
| | Min. water temperature | +8 °C | +8 °C |
| | Safeguarding | 3 x 23 A | 3 x 40 A |
| | Voltage / frequency range | 400 V / 3 ph / 50 Hz | 400 V / 3 ph / 50 Hz |
| | Compressor brand | Sanyo | Sanyo |
| | Compressor | 2 x scroll | 4 x scroll |
| | Number of fans | 2 | 3 |
| | Cable cross section | 5 x 8 mm² | 5 x 16 mm² |
| | Noise pressure level[2] | 60 dB(A) | 61 dB(A) |
| | Protection class | IPX4 | IPX4 |
| | Refrigerant charge | 2 x 2.5 kg | 4 x 2.4 kg |
| | Alternative placement display | possible | possible |
| | Net dim. WxDxH | 1448x730x1060 mm | 2180x1080x1930 mm |
| | Shipping dim. WxDxH | 1630x810x1180 mm | 2240x1200x2050 mm |
| | Net weight | 251 kg | 374 kg |
| | Delivery weight | 286 kg | 413 kg |
| | **Code** | **2681** | **2682** |

2) measured sound pressure level at 1 m * at 60–70 % humidity ** at 59.2 % humidity

FEATURES

- available in sizes from 55 – 190 kW
- COP value of 5.7 – 5.9
- operating range is -15 °C to +43 °C
- pool volume is 250 – 850 m³
- housing made of galvanized steel with powder painting, color: white
- cooling & heating function
- automatic defrosting
- with titanium heat exchanger, excellent suitable for salt water and chlorine
- with digital LCD display
- incl. water flow switch
- max. water temperature +43 °C
- refrigerant R410A
- RS485 connection port (centralized control)
- pressure gauge

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request.

2 years manufacturer's warranty
Warranty on Sanyo compressor: 6 years
Warranty on Copeland compressor: 6 years

| MIDA.Public 120 | MIDA.Public 145 | MIDA.Public 190 |
|---|---|---|
| vertical | vertical | vertical |
| 550 m³ | 650 m³ | 850 m³ |
| 35 m³/h | 42 m³/h | 60 m³/h |
| 110 mm | 110 mm | 110 mm |
| 120 kW / 409,4 kBtu/h | 145 kW / 494,7 kBtu/h | 190 kW / 648,3 kBtu/h |
| 21,8 kW / 74,38 kBtu/h | 25,4 kW / 86,66 kBtu/h | 32,8 kW / 111,91 kBtu/h |
| 3 x 39 A | 3 x 45,4 A | 3 x 58,6 A |
| 5,9 | 5,71 | 5,79 |
| 80 kW / 273 kBtu/h | 90 kW / 307, kBtu/h | 125 kW / 426,5 kBtu/h |
| 20,0 kW / 68,24 kBtu/h | 29,4 kW / 100,31 kBtu/h | 30,8 kW / 105,09 kBtu/h |
| 3 x 35,8 A | 3 x 42,0 A | 3 x 55,1 A |
| 5,1 | 5,1 | 5,2 |
| 51,80 kW / 176,76 kBtu/h | 59,56 kW / 203,23 kBtu/h | 95,80 kW / 326,85 kBtu/h |
| 20,29 kW / 69,23 kBtu/h | 27,45 kW / 93,66 kBtu/h | 37,88 kW / 129,25 kBtu/h |
| 3 x 35,28 A | 3 x 51,71 A | 3 x 75,34 A |
| 2,55 | 2,17 | 2,53 |
| +8 °C | +8 °C | +8 °C |
| 3 x 46 A | 3 x 55 A | 3 x 82 A |
| 400 V / 3 pH / 50 Hz | 400 V / 3 pH / 50 Hz | 400 V / 3 pH / 50 Hz |
| Sanyo | Copeland | Copeland |
| 2x scroll | 2 x scroll | 4 x scroll |
| 3 | 2 | 2 |
| 5 x 16 mm² | 5 x 25 mm² | 5 x 35 mm² |
| 62 dB(A) | 63 dB(A) | 67 dB(A) |
| IPX4 | IPX4 | IPX4 |
| 2 x 6.5 kg | 2 x 8.0 kg | 4 x 6.0 kg |
| possible | possible | possible |
| 2180x1080x1930 mm | 2180x1080x2060 mm | 2180x1080x2060 mm |
| 2240x1200x2050 mm | 2280x1180x2220 mm | 2280x1180x2220 mm |
| 560 kg | 664 kg | 891 kg |
| 584 kg | 709 kg | 964 kg |
| **2683** | **2684** | **2685** |

## HEAT PUMP MIDA.Cool

This heat pump not only ensures a constant water temperature for cooling and heating, it is also quieter and easier to operate.

**Where to use:** Use in public spaces all over the world, such as hotels, schools, aqua parks, gyms, etc.

**Centralized Control:** It makes temperature adjustment and failure review much easier and more practical. On the other hand, the units can work together with higher efficiency without interfered by any failure of the salve unit during operation.

### VERSIONS MIDA.Cool

| | Type | MIDA.Cool 30 | MIDA.Cool 60 |
|---|---|---|---|
| | Air outlet | vertical | vertical |
| | Max. pool volume | 190 m³ | 350 m³ |
| | Water flow (recommended) | 10 m³/h | 20 m³/h |
| | Connection | 63 mm | 90 mm |
| **HEATING** Measurement conditions Air temperature 24°C* Water temperature 26°C | Heating power | 45.0 kW / 153.0 kBtu/h | 85 kW.0 / 289.0 kBtu/h |
| | Input power | 9.5 kW / 32.3 kBtu/h | 18.4 kW / 62.56 kBtu/h |
| | Operating current | 3 x 16.9 A | 3 x 32.8 A |
| | COP | 4.3 | 4.3 |
| **HEATING** Measurement conditions Air temperature 15°C* Water temperature 26°C | Heating power | 33.0 kW / 112.2 kBtu/h | 62.3 kW / 213.52 kBtu/h |
| | Input power | 8.24 kW / 28.00 kBtu/h | 16.30 kW / 55.42 kBtu/h |
| | Operating current | 3 x 15.57 A | 3 x 31.6 A |
| | COP | 4.0 | 4.0 |
| **COOLING** Measurement conditions Air 43 °C** Water 32 °C | Cooling capacity | 30.0 kW / 120.0 kBtu/h | 60.0 kW / 204.0 kBtu/h |
| | Input power | 10.4 kW / 35.3 kBtu/h | 20.8 kW / 70.7 kBtu/h |
| | Operating current | 3 x 18.5 A | 3 x 37 A |
| | EER | 4.3 | 3 |
| | Min. water temperature | +8 °C | +8 °C |
| | Safeguarding | 3 x 40 A | 3 x 63 A |
| | Voltage / frequency range | 400 V / 3 ph / 50 Hz | 400 V / 3 ph / 50 Hz |
| | Compressor brand | Copeland | Copeland |
| | Compressor | 2 x scroll | 4 x scroll |
| | Number of fans | 2 | 2 |
| | Cable cross section | 3 x 6 mm² | 3 x 10 mm² |
| | Noise pressure level[2] | 61 dB(A) | 63 dB(A) |
| | Protection class | IPX4 | IPX4 |
| | Refrigerant charge | 2 x 2.5 kg | 4 x 2.2 kg |
| | Alternative placement display | possible | possible |
| | Net dim. WxDxH | 1490 x 735 x 1130 mm | 2050 x 900 x 1820 mm |
| | Shipping dim. WxDxH | 1510 x 790 x 1305 mm | 2150 x 1020 x 1900 mm |
| | Net weight | 251 kg | 530 kg |
| | Delivery weight | 288 kg | 553 kg |
| | **Code** | **2690** | **2691** |

2) measured sound pressure level at 1 m * at 62,8 % humidity ** at 70 % humidity

FEATURES

- available in sizes from 30 – 120 kW (cooling)
- available in sizes from 45 – 160 kW (heating)
- COP value of 3.0 – 4.3 (cooling)
- COP value of 4.0 – 4.3 (heating)
- operating range is –7 °C to +45 °C
- pool volume is 190 – 750 m³
- housing made of galvanized steel with powder painting, color: white
- cooling & heating function
- automatic defrosting
- patented dual coil titanium heat exchanger: enlarge the exchanging surface and increases the efficiency by providing a sufficient action area
- with digital LCD display
- incl. water flow switch
- max. water temperature 35 °C
- refrigerant R407C
- RS485 connection port (centralized control)
- pressure gauge

**Details:**

- copeland compressor with precise energy stage settings, ensure the working unit to achieve the desired energy saving effect
- variable speed fan: the working unit can adjust the fan speed at any time to reduce the input power and even the noise level to achieve silent running

*Since the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. For this there is a calculation tool, which we provide on request.

| MIDA.Cool 75 | MIDA.Cool 120 | MIDA.Cool 150 |
|---|---|---|
| vertical | vertical | vertical |
| 450 m³ | 650 m³ | 750 m³ |
| 25 m³/h | 40 m³/h | 60 m³/h |
| 110 mm | 110 mm | 110 mm |
| 105.0 kW / 357.0 kBtu/h | 160.0 kW / 544.0 kBtu/h | 210.0 kW / 714.0 kBtu/h |
| 21.6 kW / 73.44 kBtu/h | 34.2 kW / 116.28 kBtu/h | 44.8 kW / 152.32 kBtu/h |
| 3 x 38.6 A | 3 x 61 A | 3 x 79.8 A |
| 4.3 | 4.3 | 4.3 |
| 73.7 kW / 250.58 kBtu/h | 90.7 kW / 308.38 kBtu/h | 122 kW / 414.8 kBtu/h |
| 35.50 kW / 120.70 kBtu/h | 21.00 kW / 105.40 kBtu/h | 29.80 kW / 101.32 kBtu/h |
| 3 x 17.7 A | 3 x 41.2 A | 3 x 60.8 A |
| 4.2 | 4.3 | 4.2 |
| 75.0 kW / 255.0 kBtu/h | 120.0 kW / 408.0 kBtu/h | 150.0 kW / 510.0 kBtu/h |
| 26.0 kW / 88.4 kBtu/h | 41.6 kW / 141.4 kBtu/h | 52.1 kW / 177.1 kBtu/h |
| 3 x 46.3 A | 3 x 74.2 A | 3 x 92.8 A |
| 4.3 | 4.3 | 3.2 |
| +8 °C | +8 °C | +8 °C |
| 3 x 63 A | 3 x 100 A | 3 x 100 A |
| 400 V / 3 pH / 50 Hz | 400 V / 3 pH / 50 Hz | 400 V / 3 pH / 50 Hz |
| Copeland | Copeland | Copeland |
| 2 x scroll | 3 x scroll | 4 x scroll |
| 3 | 3 | 4 |
| 3 x 10 mm² | 3 x 25 mm² | 3 x 25 mm² |
| 63 dB(A) | 65 dB(A) | 67 dB(A) |
| IPX4 | IPX4 | IPX4 |
| 2 x 6.7 kg | 3 x 5.0 kg | 4 x 5.0 kg |
| possible | possible | possible |
| 2170 x 1070 x 2100 mm | 2170 x 1070 x 2100 mm | 2850 x 1108 x 2220mm |
| 2260 x 1180 x 2180 mm | 2270 x 1220 x 2300 mm | 2950 x 1160 x 2320 mm |
| 789 kg | 752 kg | 969 kg |
| 812 kg | 790 kg | 971 kg |
| **2692** | **2693** | **2694** |

2 years manufacturer's warranty
Warranty on Sanyo compressor: 6 years
Warranty on Copeland compressor: 6 years

# WiFi WIFI-ADAPTER FOR HEAT PUMPS

FREE APP!

Wireless control of the heat pumps with your tablet, smartphone or PC with internet access - at any time and at any place. Control your pool heat pump with the Midas app. Inform yourself about important parameters water temperature, the operating state or change important settings. This saves energy and protects the environment. The app is free in Google Play Store or the App Store on iTunes.

**Also for retrofitting.**

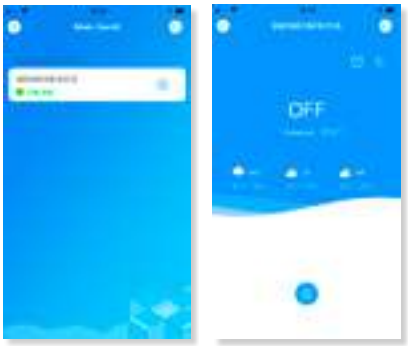
erhältlich im App Store

JETZT BEI Google play

## WiFi-Adapter for MIDA.Maxx, MIDA.Boost, MIDA.Force and MIDA.Joy from series 2020

| Article | Code |
|---|---|
| WiFi-Adapter for MIDA.Maxx, MIDA.Boost, MIDA.Force and MIDA.Joy | 2603 |

**WiFi App:** Aqua Temp




## WiFi-Adapter for MIDA.Black

| Article | Code |
|---|---|
| WiFi-Adapter for MIDA.Black | 2602 |

**WiFi App:** Pool Comfort

## WiFi-Adapter for MIDA.Quick

| Article | Code |
|---|---|
| WiFi-Adapter for MIDA.Quick | 2601 |

**WiFi App:** Midas Pool

# EQUIPMENT FOR HEAT PUMPS

## CONNECTION MODULE FOR LINK TOUCH

Is required as an accessory for temperature control of the heat pump via Link-Touch (see catalog page <?>).

The connection is made between the circuit board and the display via the contact plug of the heat pump. Suitable for: MIDA.Maxx (from series 2020), MIDA.Boost, MIDA.Force and MIDA.Joy. Note: Cannot be connected at the same time as the WiFi module.

| Article | Code |
|---|---|
| Connector | 3601 |

## BYPASS SET FOR HEAT PUMPS

Bypass set for pool heat pumps consisting of the following Items:

**Bypass set for heat pumps – 50 mm**
3 x PVC-U ball valve d 50 mm
2 x PVC-U Tee d 50 mm
6 x PVC-U d 50 mm pipe à 15 cm
1 x Griffon PVC glue WDF-05 125 ml
1 x Griffon cleaner can 125 ml
2 x hose clamp St. Galvanitz 32 – 50 mm
2 x hose 50 x 38

**Bypass set for heat pumps – 63 mm**
3 x PVC-U ball valve d 63 mm
2 x PVC-U Tee d 63 mm
6 x PVC-U d 63 mm pipe à 15 cm
1 x Griffon PVC glue WDF-05 125 ml
1 x Griffon cleaner can 125 ml
2 x hose clamp St. Galvanitz 50 – 70 mm

Parts individually in box (not glued).

#2600

| Article | Code | kg |
|---|---|---|
| Bypass set for heat pumps – 50 mm | 2600 | 2,9 |
| Bypass set for heat pumps – 63 mm | 2604 | 3,5 |

## PRO CLEAN HEAT PUMP AND AIR CONDITIONING CLEANER

| Article | VPE | Code |
|---|---|---|
| 1 liter spray bottle | 6 | 8047 |

#8047

## STAINLESS STEEL CARE SPRAY

Care, protection and cleaning of shiny and matt stainless steel. Ideal for our MIDA.Maxx heat pump, pool ladders, surge showers made of stainless steel, outdoor showers or pool edges of stainless steel pools.

| Article | VPE | Code |
|---|---|---|
| 400ml Spray | 12 | 8048 |

#8048

## ACCESSORIES FOR HEAT PUMPS

#2670-E40

#3000-E44

#3000-E32

#2670-E41

#3000-E33

| Article | Code |
|---|---|
| MIDA.Maxx, MIDA.Boost, MIDA.Force & MIDA.Joy<br>10 m extension cable display / WiFi module | 2670-E40 |
| MIDA.Black<br>10 m extension cable display / WiFi module | 2900-E44 |
| MIDA.Quick<br>10 m extension cable display / WiFi module | 3000-E32 |
| MIDA.Maxx & MIDA.Boost<br>Empty housing for external display attachment | 2670-E41 |
| MIDA.Force, MIDA.Joy, MIDA.Black & MIDA.Quick<br>Empty housing for external display attachment | 3000-E33 |

## WINTER COVERS FOR HEAT PUMPS

| Winter cover for | Dimensions (WxDxH) | Code |
|---|---|---|
| MIDA.Maxx 14 | 729mm x 783mm x 767mm | 2633 |
| MIDA.Maxx 17 | 729mm x 783mm x 767mm | 2633 |
| MIDA.Maxx 25 | 787mm x 827mm x 887mm | 2634 |
| MIDA.Maxx 31 | 921mm x 877mm x 920mm | 2635 |
| MIDA.Boost 12 | 1100mm x 440mm x 750mm | 2624 |
| MIDA.Boost 18 | 1190mm x 470mm x 850mm | 2625 |
| MIDA.Boost 24 | 1190mm x 495mm x 1275mm | 2626 |
| MIDA.Force 7 | 1040mm x 380mm x 585mm | 2631 |
| MIDA.Force 12 | 1040mm x 380mm x 585mm | 2631 |
| MIDA.Force 17 | 1100mm x 440mm x 750mm | 2624 |
| MIDA.Force 20 | 1160mm x 490mm x 862mm | 2632 |
| MIDA.Joy 7 | 1040mm x 380mm x 585mm | 2631 |
| MIDA.Joy 12 | 1040mm x 380mm x 585mm | 2631 |
| MIDA.Joy 17 | 1100mm x 440mm x 750mm | 2624 |
| MIDA.Black 8 | 990mm x 360mm x 605mm | 2613 |
| MIDA.Black 11 | 1060mm x 370mm x 640mm | 2614 |
| MIDA.Black 14 | 1120mm x 420mm x 730mm | 2615 |
| MIDA.Black 17 | 1120mm x 420mm x 730mm | 2615 |
| MIDA.Black 21 | 1120mm x 450mm x 980mm | 2616 |
| MIDA.Black 26 | 1120mm x 450mm x 1280mm | 2617 |
| MIDA.Quick 4 | 800mm x 300mm x 580mm | 2627 |
| MIDA.Quick 7 | 800mm x 300mm x 580mm | 2627 |
| MIDA.Quick 10 | 1000mm x 400mm x 630mm | 2628 |
| MIDA.Quick 13 | 1000mm x 400mm x 630mm | 2628 |
| MIDAQuick 17 | 1140mm x 455mm x 840mm | 2629 |
| MIDA. Quick 21 | 1200mm x 500mm x 1300mm | 2630 |
| MIDA.Quick 26 | 1200mm x 500mm x 1300mm | 2630 |

# POOL DEHUMIDIFIERS

If left unchecked, humidity can cause serious problems. The ideal value is around 55 - 65 %.
More than 70 % can be seen on fogged windows and walls. This provides a breeding ground for bacteria and mold. Under 45 % leads to dry air and possible damage to the mucous membranes. With the help of our dehumidifiers you can keep a comfortable humidity of 55 - 65 %. 230 V/50Hz.

3 YEARS WARRANTY

**Advantage: high degree of heat recovery!**

- including automatic defrosting
- for ambient temperatures of +22 °C to +35 °C
- min. 5 °C, max. 42 °C on request
- with automatic defrost available on request

MIDA.Air DRY 800 steel

## DEHUMIDIFIER MIDA.Air
DRY 800

| Model | MIDA.Air DRY 800 |
|---|---|
| Material | steel |
| Pool surface | up to 90 m² ideal for medium to large pools or spa areas |
| Noise pressure level | low noise – 46 dB at a distance of 1 m |
| Electrical input power | 1.600 W |
| Heating power | 5.100 W |
| Dehumidification | max. 90 liter per day |
| Air flow | 1.200 m³/h |
| Pool Security microlight LED | compatible (optional) |
| Montage housing | floor mounting (wall mounting optional with accessories) |
| MHousing | ✓ |
| Regulation of humidity | digital |
| Humidity display | yes |
| Display-calibration | yes |
| Accuracy | +/– 1 % |
| Dimensions (w x h x d) | 1250 x 950 x 310 mm |
| Weight | 100 kg |
| Code | M800 S |

Digital display MIDA.Air steel or stainless steel

also available in other ral colors. Free of charge. Please specify the ral code when ordering.

# DEHUMIDIFIER MIDA.Air

DRY 400, DRY 500

MIDA.Air DRY 400, 500
Stainless steel V4A / AISI 316

MIDA.Air DRY 400, 500 steel

MIDA.Air DRY 400, 500
stainless steel V4A / AISI 316

| Model | MIDA.Air DRY 500 | | | MIDA.Air DRY 400 | | |
|---|---|---|---|---|---|---|
| Material | plastic | steel | stainless steel V4A/AISI 316 | plastic | steel | stainless steel V4A/AISI 316 |
| Pool surface | up to 60 m² ideal for medium-sized pools or spa areas | | | up to 45 m² ideal for small pools or spa areas | | |
| Noise pressure level | low noise – 44 dB at a distance of 1 m | | | low noise – 42 dB at a distance of 1 m | | |
| Electrical input power | 1.000 W | | | 700 W | | |
| Heating power | 3.500 W | | | 1.900 W | | |
| Dehumidification | max. 66 liter per day | | | max. 48 liter per day | | |
| Air flow | 800 m³/h | | | 600 m³/h | | |
| Pool Security microlight LED | compatible (optional) | | | compatible (optional) | | |
| Montage housing | wall mounting (floor mounting optional with accessories) | | | wall mounting (floor mounting optional with accessories) | | |
| MHousing | ✓ | ✓ any color on request possible | ✓ | ✓ | ✓ any color on request possible | ✓ |
| Regulation of humidity | mechanical | digital + temperature regulator | digital + temperature regulator | mechanical | digital + temperature regulator | digital + temperature regulator |
| Humidity display | – | yes | yes | – | yes + temperature | yes + temperature |
| Display-calibration | – | yes | yes | – | yes | yes |
| Accuracy | +/– 5 % | +/– 1 % | +/– 1 % | +/– 5 % | +/– 1 % | +/– 1 % |
| Dimensions (w x h x d) | 1245 x 660 x 255 mm | 1.245 x 642 x 300 mm | 1.245 x 642 x 300 mm | 780 x 660 x 255 mm | 780 x 642 x 300 mm | 780 x 642 x 300 mm |
| Weight | 60 kg | 77 kg | 77 kg | 40 kg | 50 kg | 50 kg |
| Code | M500 K | M500 S | M500 E | M400 K | M400 S | M400 E |

# OPTIONAL EQUIPMENT MIDA.Air

| Optional equipment MIDA.Air | code |
|---|---|
| 2 m cable for all sizes | M400-E2 |
| Fresh air supply (adapter, Ø 100 mm, length 50 mm, galvanized) suitable for all versions | M301 |

#M400-VK, #M400-V, #M500-VK, #M500-V & #M800-V

## MIDA.Air DRY 400

| Optional equipment MIDA.Air DRY 400 | Housing plastic | steel | stainless steel | Code |
|---|---|---|---|---|
| Heater 3,5 kW / 11,9 kBtu/h, incl. magnetic valve for DRY 400 K **WITH** 230V/5A connection for external thermostat | ✓ | | | M400-VK |
| Heater 3,5 kW / 11,9 kBtu/h, incl. magnetic valve for DRY 400 S + E **WITHOUT** 230V/5A connection, since thermostat already included | | ✓ | ✓ | M400-V |
| Mobile floor console with 4 wheesl for DRY 400 K, S + E | ✓ | ✓ | ✓ | M400-M |
| Backmounting-Set for DRY 400 K* | ✓ | | | M400-W |
| Wireless hydrostat (humidity and temperature)** | ✓ | ✓ | ✓ | M300 |
| Air filter MIDA.Air DRY 400 | ✓ | ✓ | ✓ | M400-F |

Mobile floor console

Backmounting-set (front view)

## MIDA.Air DRY 500

| Optional equipment MIDA.Air DRY 500 | Housing plastic | steel | stainless steel | Code |
|---|---|---|---|---|
| Heater 5,0 kW / 17,1 kBtu/h, incl. magnetic valve for DRY 500 K **WITH** 230V/5A connection for external thermostat | ✓ | | | M500-VK |
| Heater 5,0 kW / 17,1 kBtu/h, incl. magnetic valve for DRY 500 S + E **WITHOUT** 230V/5A connection, since thermostat already included | | ✓ | ✓ | M500-V |
| Mobile floor console with 4 wheesl for DRY 500 K, S + E | ✓ | ✓ | ✓ | M500-M |
| Backmounting-Set for DRY 500 K* | ✓ | | | M500-W |
| Wireless hydrostat (humidity and temperature)** | ✓ | ✓ | ✓ | M300 |
| Air filter MIDA.Air DRY 500 | ✓ | ✓ | ✓ | M500-F |

Backmounting-set (back view)

Wireless hydrostat

## MIDA.Air DRY 800

| Optional equipment MIDA.Air DRY 800 | Housing steel | Code |
|---|---|---|
| Heater 7,0 kW / 23,9 kBtu/h, incl. magnetic valve for DRY 800 | ✓ | M800-V |
| Wallmounting-Set for DRY 800* | ✓ | M800-W |
| Wireless hydrostat (humidity and temperature)** | ✓ | M300 |
| Air filter MIDA.Air DRY 800 | ✓ | M800-F |

Illustration shows backmounting installation

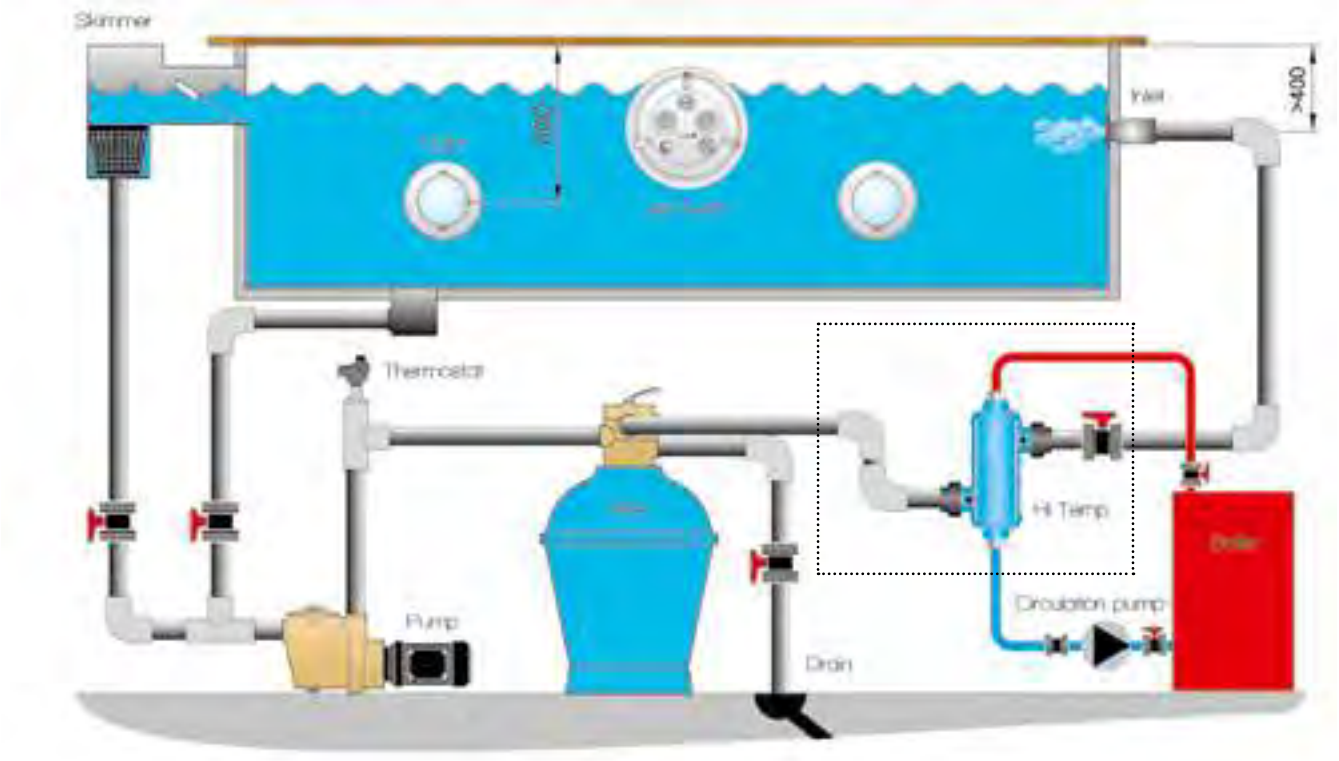
* max. wall thickness 400 mm

** max. range 30 m in buildings or up to 100 m without restrictions

# HEAT EXCHANGERS

For a fast and flexible heating: a heat exchanger is used to transfer heat energy from one medium to another without the two media being mixed. The heat exchanger can be built into the existing house heating system. All the models can be installed and connected to the electric, firewood, pellet or oil-fired boilers, and to a heat pump and solar panel system. The heat exchangers are designed and made of materials that permit their use for a wide variety of needs and in many different types of installations.

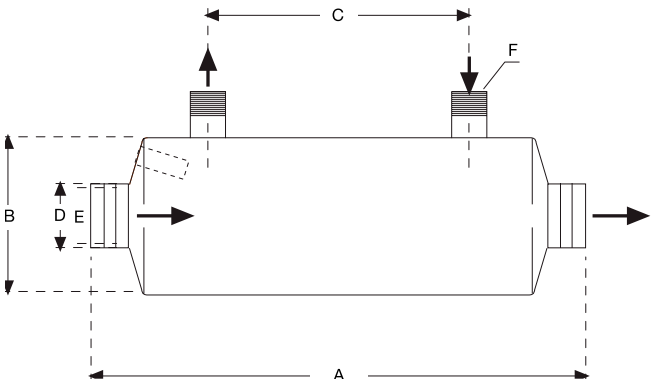
## INSTALLATION SCHEME OF HEAT EXCHANGER HI-TEMP



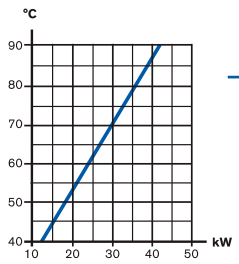
## HEAT EXCHANGER FULL TITANIUM**

Full titanium water heat exchanger, excellent for warming bathing water with high disinfection requirements such as brine bath, salt electrolysis, sea water, 90/60°C, without plastic clamps.
Operating pressure, heating side: maximal 10 bar, operating pressure, pool water side: up to 3 bar.
Heating by boiler, solar collector or other sources.

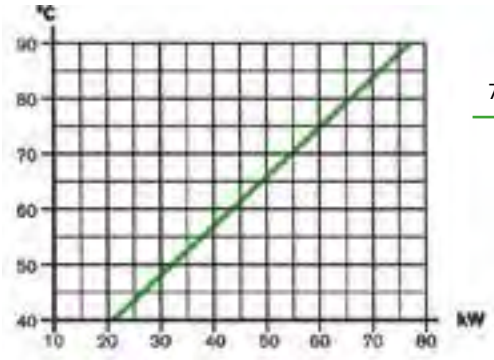
**1** year manufacturer's warranty



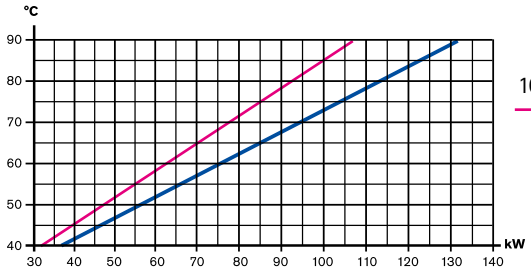
| Model | A (mm) | B (Ø) | C (mm) | D (mm) | E (Zoll) | F (inch) |
|---|---|---|---|---|---|---|
| 42 kW / 143,3 kBtu/h | 385 | 125 | 205 | NW/50 | 1½" | ¾" |
| 76 kWç / 259,3 kBtu/h | 680 | 125 | 495 | NW/50 | 1½" | 1" |
| 105 kW / 358,3 kBtu/h | 780 | 160 | 590 | NW/60 | 2" | 1" |
| 132 kW / 450,4 kBtu/h | 1050 | 160 | 820 | NW/60 | 2" | 1" |




42 kW
90° = 42 kW
80° = 36 kW
70° = 30 kW
60° = 24 kW
50° = 18 kW




76 kW
90° = 76 kW
80° = 65 kW
70° = 54 kW
60° = 43 kW
50° = 32 kW
40° = 21 kW




105 kW
90° = 105 kW
80° = 90 kW
70° = 75 kW
60° = 60 kW
50° = 45 kW
40° = 30 kW

132 kW
90° = 132 kW
80° = 113 kW
70° = 94 kW
60° = 75 kW
50° = 56 kW
40° = 37 kW

| Heat performance | Code | kg |
|---|---|---|
| 35.000 kcal/h = 42 kW / 143,3 kBtu/h | 9TWT-35 | 6,0 |
| 65.000 kcal/h = 76 kW / 259,3 kBtu/h | 9TWT-65 | 7,0 |
| 93.000 kcal/h = 105 kW / 358,3 kBtu/h | 9TWT-105 | 8,0 |
| 115.000 kcal/h = 132 kW / 450,4 kBtu/h | 9TWT-115 | 19,0 |
| Pair plastic clamps for Ø 125 mm | 9HWT-H | 2,0 |
| Pair plastic clamps for Ø 160 mm | 9HWT-H2 | 2,4 |
| Rubber hose mounting kit NW 50 mm for Ø 125 mm | 9HWT-H4 | 0,30 |
| Rubber hose mounting kit NW 60 mm for Ø 160 mm | 9HWT-H3 | 0,35 |

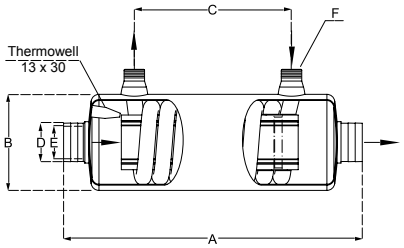
** Delivery without holder

# HEAT EXCHANGER STAINLESS STEEL**

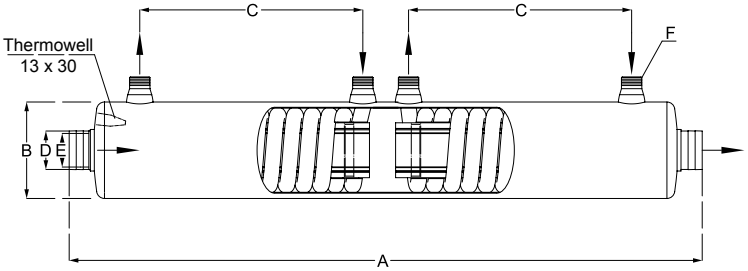
1 year manufacturer's warranty

Stainless steel V4A/AISI 316, pickled and electro-polished, coiled tubing welded into casing; thermowell for electric temperature measurement, 90/60° C, without plastic clamps. Operating pressure, heating side: maximum 10 bar, operating pressure, pool water side: up to 3 bar. Heating by boiler, solar collector or other sources.

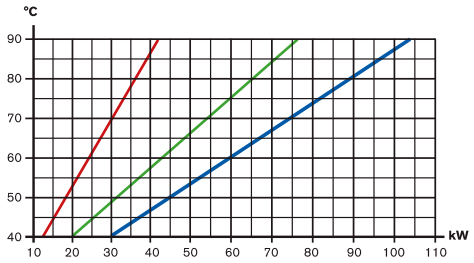
## 42 kW/76 kW/105 kW




## 146 kW/210 kW



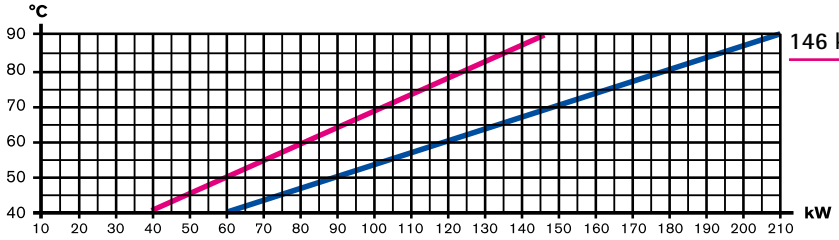

| Model | A (mm) | B (Ø) | C (mm) | D (mm) | E (Zoll) | F (inch) |
|---|---|---|---|---|---|---|
| 42 kW / 143,3 kBtu/h | 385 | 125 | 205 | NW/50 | 1½" | ¾" |
| 76 kW / 259,3 kBtu/h | 680 | 125 | 495 | NW/50 | 1½" | 1" |
| 105 kW / 358,3 kBtu/h | 780 | 160 | 590 | NW/63 | 2" | 1" |
| 146 kW / 498,2 kBtu/h | 1050 | 160 | 370 | NW/63 | 2" | 1" |
| 210 kW / 716,5 kBtu/h | 1370 | 160 | 530 | NW/63 | 2" | 1" |




**42 kW**
90° = 42 kW
80° = 36 kW
70° = 30 kW
60° = 24 kW
50° = 18 kW

**76 kW**
90° = 76 kW
80° = 65 kW
70° = 54 kW
60° = 43 kW
50° = 32 kW
40° = 21 kW

**105 kW**
90° = 105 kW
80° = 90 kW
70° = 75 kW
60° = 60 kW
50° = 45 kW
40° = 30 kW




**146 kW**
90° = 146 kW
80° = 125 kW
70° = 104 kW
60° = 83 kW
50° = 62 kW
40° = 41 kW

**210 kW**
90° = 210 kW
80° = 180 kW
70° = 150 kW
60° = 120 kW
50° = 90 kW
40° = 60 kW

| Heat performance | Code | kg |
|---|---|---|
| 35.000 kcal/h = 42 kW / 143,3 kBtu/h | 9HWT-40 | 3,0 |
| 65.000 kcal/h = 76 kW / 259,3 kBtu/h | 9HWT-75 | 6,0 |
| 93.000 kcal/h = 105 kW / 358,3 kBtu/h | 9HWT-105 | 9,0 |
| 122.000 kcal/h = 146 kW / 498,2 kBtu/h | 9HWT-140 | 12,0 |
| 182.000 kcal/h = 210 kW / 716,5 kBtu/h | 9HWT-209 | 18,5 |
| Pair plastic clamps for Ø 125 mm | 9HWT-H | 2,0 |
| Pair plastic clamps for Ø 160 mm | 9HWT-H2 | 2,4 |
| Rubber hose mounting kit NW 50 mm for Ø 125 mm | 9HWT-H4 | 0,30 |
| Rubber hose mounting kit NW 60 mm for Ø 160 mm | 9HWT-H3 | 0,35 |

** Delivery without holder

## HEAT EXCHANGER*

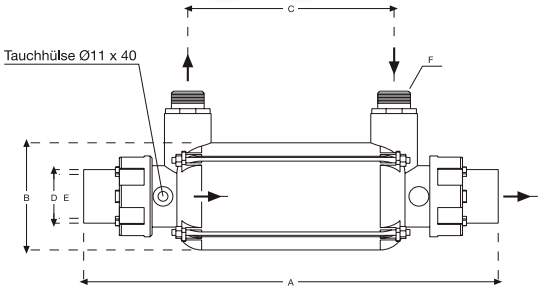
PLASTIC/STAINLESS STEEL OR PLASTIC/TITANIUM

1 year manufacturer's warranty

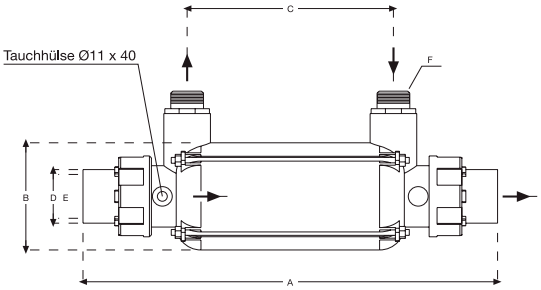
Plastic casing water heat exchanger with stainless steel or titanium corrugated coiled tubing in cross flow.

- primary pressure: 6 bar, secondary pressure 2 bar
- maximum temperature: 90°C
- material casing: plastic polyamide 6.6 30% glass fiber reinforced, gluing socket: ABS, O-ring: silicon

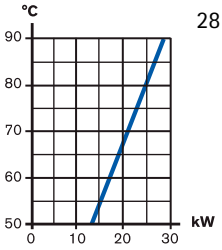
**28 kW/46 kW**



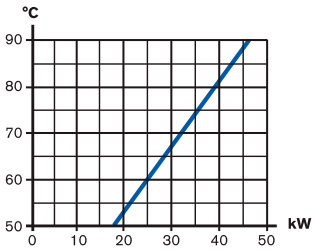

**85 kW/108 kW**



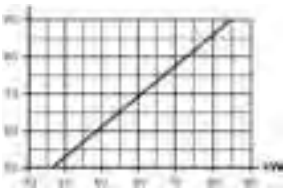

| Model | A (mm) | B (mm) | C (mm) | D | E (mm) | F (inch) |
|---|---|---|---|---|---|---|
| 28 kW / 95,5 kBtu/h | 345 | 110 | 135 | 63 | 50 | 3/4" |
| 46 kW / 157,0 kBtu/h | 415 | 110 | 205 | 63 | 50 | 3/4" |
| 85 kW / 290,0 kBtu/h | 705 | 110 | 495 | 63 | 50 | 1" |
| 108 kW / 368,5 kBtu/h | 1015 | 110 | 805 | 63 | 50 | 1" |



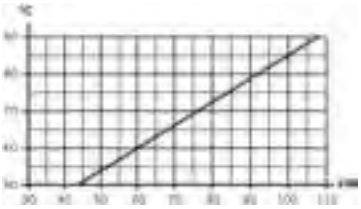

28 kW
90° = 28 kW
80° = 24,5 kW
70° = 21 kW
60° = 17,5 kW
50° = 14 kW




46 kW
90° = 46 kW
80° = 39 kW
70° = 32 kW
60° = 25 kW
50° = 18 kW



85 kW
90° = 85 kW
80° = 73 kW
70° = 61 kW
60° = 49 kW
50° = 37 kW



108 kW
90° = 108 kW
80° = 92 kW
70° = 76 kW
60° = 60 kW
50° = 44 kW

### MODEL PLASTIC/STAINLESS STEEL

| Heat performance | Code | kg |
|---|---|---|
| 28.000 kcal/h = 28 kW/95,5 kBtu/h | 9KWT-VA28 | 1,8 |
| 46.000 kcal/h = 46 kW/156,6 kBtu/h | 9KWT-VA46 | 2,2 |
| 85.000 kcal/h = 85 kW/290,0 kBtu/h | 9KWT-VA85 | 1,8 |
| 108.000 kcal/h = 108 kW/368,5 kBtu/h | 9KWT-VA108 | 2,2 |
| Pair plastic clamps | 9HWT-H | 2,0 |

### MODEL PLASTIC/TITANIUM

| Heat performance | Code | kg |
|---|---|---|
| 28.000 kcal/h = 28 kW/95,5 kBtu/h | 9KWT-TI28 | 1,8 |
| 46.000 kcal/h = 46 kW/156,6 kBtu/h | 9KWT-TI46 | 2,2 |
| 85.000 kcal/h = 85 kW/290,0 kBtu/h | 9KWT-TI85 | 1,8 |
| 108.000 kcal/h = 108 kW/368,5 kBtu/h | 9KWT-TI108 | 2,2 |
| Pair plastic clamps | 9HWT-H | 2,0 |



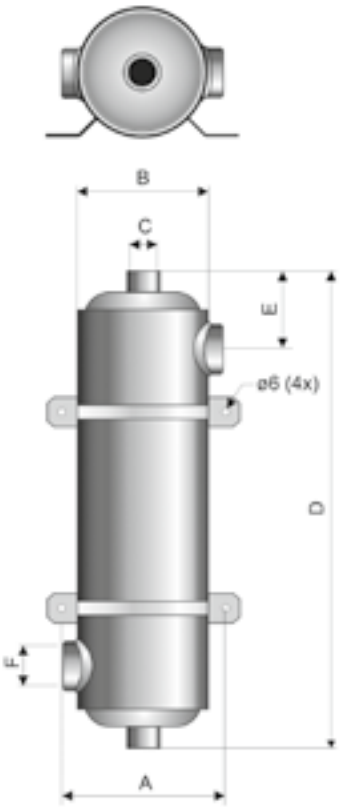
* Delivery including holder

# HEAT EXCHANGER MAXI-FLO*

Suitable for pools up to 450 m³, incl. bracket. color: black.
1 1/2" internal thread secondary side, 1" internal thread primary side (#940 and #941)
2" internal thread secondary side, 1" internal thread primary side (#942)
2" internal thread secondary side, 1 1/2" internal thread primary side (#943)

2 years manufacturer's warranty

Including brackets




## CHARACTERISTICS

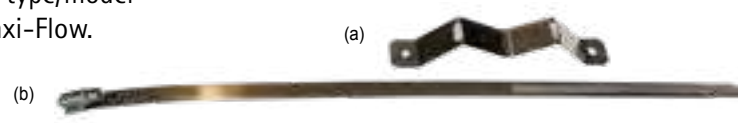
- maximum pressure secondary circuit (pool water) 5 bar
- primary circuit (hot water) 10 bar
- acid proof stainless steel AISI 316L
- can be connected in series if necessary
- 37 seamless pipes equipped with flow restrictors for hot water
- adjustable brackets made of acid proof stainless steel
- four sizes: 40, 60, 75 and 120 kW
- connection to boiler, heat pump, solar panels or other heat sources

| Dimensions | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Maxi-Flow 40 stainl. steel | 139 mm | 129 mm | 1" | 355 mm | 92 mm | 1½" |
| Maxi-Flow 60 stainl. steel | 139 mm | 129 mm | 1" | 485 mm | 92 mm | 1½" |
| Maxi-Flow 75 stainl. steel | 139 mm | 129 mm | 1" | 600 mm | 85 mm | 2" |
| Maxi-Flow 120 stainl. steel | 139 mm | 129 mm | 1½" | 1070 mm | 85 mm | 2" |

| Performance | | Primary side, hot water | | Secondary side, cold water | | Code | kg |
|---|---|---|---|---|---|---|---|
| kW | kBtu/h | l/min | pressure drop mWs | l/min | pressure drop mWs | | |
| 40 | 135 | 25 | 0,05 | 200 | 0,80 | 940 | 3,4 |
| 60 | 200 | 30 | 0,15 | 250 | 1,40 | 941 | 4,5 |
| 75 | 260 | 35 | 0,40 | 300 | 1,00 | 942 | 5,6 |
| 120 | 400 | 50 | 0,50 | 360 | 1,50 | 943 | 9,3 |

# HOLDER FOR PAHLÉN HEAT EXCHANGER

Set consisting of 2 x a + 2 x b, for heat exchanger type/model Hi-Flow stainless steel, Hi-Flow titanium and Maxi-Flow.




| Article | Code | kg |
|---|---|---|
| Holder for heat exchanger | 940-H | 0,3 |

* Delivery including holder

# HEAT EXCHANGER HI-FLOW*

Suitable for pools up to 300 m³. 1½" internal thread secondary side, 1" external thread primary side.

## MODEL HI-FLOW STAINLESS STEEL (V4A/AISI 316)

### CHARACTERISTICS

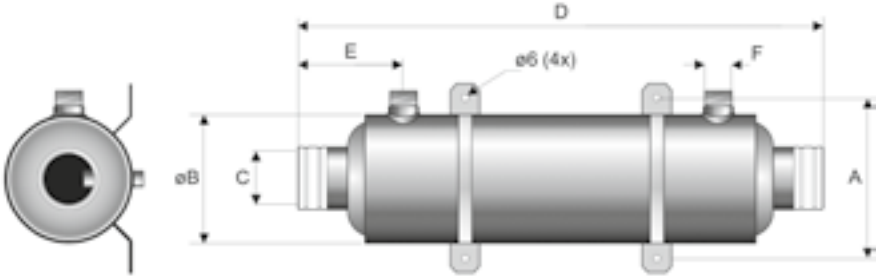
- maximum pressure secondary circuit (pool water) 8 bar
- primary circuit (hot water) 30 bar
- acid proof stainless steel AISI 316L housing
- coil for heating medium
- pocket for probe
- adjustable brackets of acid proof stainless steel
- four sizes: 13, 28, 40 and 75 kW
- connection to boiler, heat pump, solar panels or other heat sources

## MODEL HI-FLOW TITANIUM

Including brackets

### CHARACTERISTICS

- maximum pressure secondary circuit (pool water) 5 bar
- primary circuit (hot water) 10 bar
- titanium housing
- coil for the heating medium
- pocket for probe
- adjustable brackets of acid proof stainless steel
- three sizes 28, 40 and 75 kW
- connection to boiler, heat pump, solar panels or other heat sources




2 years manufacturer's warranty

| Dimensions | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| HI-Flow 13 stainless steel | 139 mm | 129 mm | 1½" | 235 mm | 72 mm | ¾" | 51 mm |
| HI-Flow 28 stainless steel | 139 mm | 129 mm | 1½" | 407 mm | 75 mm | ¾" | 51 mm |
| HI-Flow 40 stainless steel | 139 mm | 129 mm | 1½" | 455 mm | 85 mm | 1" | 51 mm |
| HI-Flow 75 stainless steel | 139 mm | 129 mm | 2" | 702 mm | 85 mm | 1" | 51 mm |
| HI-Flow 28 titanium | 139 mm | 113 mm | 1½" | 470 mm | 95 mm | 1" | 51 mm |
| HI-Flow 40 titanium | 139 mm | 127 mm | 1½" | 510 mm | 108 mm | 1" | 51 mm |
| HI-Flow 75 titanium | 139 mm | 127 mm | 1½" | 754 mm | 108 mm | 1" | 51 mm |

| Article | Performance | | Primary side, hot water | | Secondary side, cold water | | Code | kg |
|---|---|---|---|---|---|---|---|---|
| | kW | kBtu/h | l/min | pressure drop mWs | l/min | pressure drop mWs | | |
| HI-Flow 13 stainless steel | 13 | 45 | 25 | 0,90 | 200 | 0,60 | 958 | 1,9 |
| HI-Flow 28 stainless steel | 28 | 95 | 25 | 1,70 | 300 | 1,60 | 959 | 3,2 |
| HI-Flow 40 stainless steel | 40 | 135 | 60 | 1,30 | 300 | 1,60 | 960 | 3,4 |
| HI-Flow 75 stainless steel | 75 | 260 | 60 | 2,60 | 300 | 1,10 | 961 | 5,3 |
| HI-Flow 28 titanium | 28 | 95 | 20 | 1,00 | 300 | 1,10 | 11332 | 1,9 |
| HI-Flow 40 titanium | 40 | 135 | 40 | 2,30 | 350 | 1,70 | 11333 | 2,0 |
| HI-Flow 75 titanium | 75 | 260 | 45 | 5,20 | 350 | 1,70 | 11334 | 2,9 |

*Delivery including holder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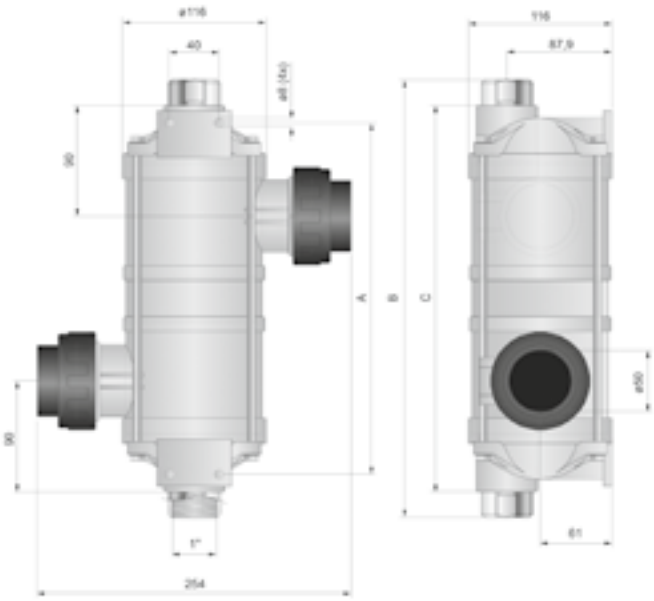
## HEAT EXCHANGER HI-TEMP

Fiberglass-reinforced plastic. Heating element made of acid-resistant stainless steel AISI 316L or titanium for salt water, glue connection for Ø 50 mm pipe, including wall-mounting. Color stainless steel: blue; color titanium: beige

- max. temperature: 100°C
- max. pressure primary circuit (hot water) 5 bar
- max. pressure secundary circuit (pool water) 4 bar
- for pools up to 300 m³

2 years manufacturer's warranty

## DIMENSIONS HEAT EXCHANGER HI-TEMP



| Dimensions | A | B | C |
|---|---|---|---|
| Hi-Temp 40 stainless steel | 359 mm | 317 mm | 277 mm |
| Hi-Temp 75 stainless steel | 534 mm | 492 mm | 452 mm |
| Hi-Temp 40 titanium | 417 mm | 375 mm | 335 mm |
| Hi-Temp 75 titanium | 667 mm | 625 mm | 585 mm |

## MODEL HI-TEMP STAINLESS STEEL (V4A/AISI 316)

## MODEL HI-TEMP TITANIUM

## CHARACTERISTICS

- outer jacket of thermoplastic
- hot water coil made of acid proof stainless steel
- integrated wall-mounting
- slip connection for glue of Ø 50 mm pipes
- two sizes 40 and 75 kW
- connection to boiler, heat pump, solar panels or other heat sources

## CHARACTERISTICS

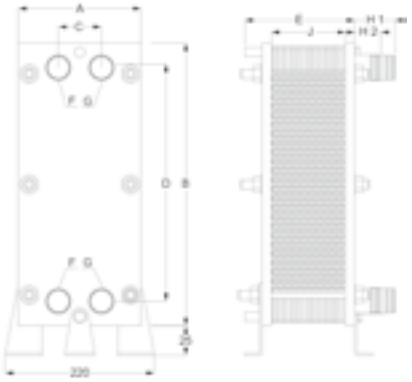
- outer jacket of thermoplastic
- hot water coil made of titanium
- integrated wall-mounting
- slip connection for glue of Ø 50 mm pipes
- two sizes 40 and 75 kW
- connection to boiler, heat pump, solar panels or other heat sources

| Article | Performance | | Primary side, hot water | | Secondary side, cold water | | Code | kg |
|---|---|---|---|---|---|---|---|---|
| | kW | kBtu/h | l/min | pressure drop mWs | l/min | pressure drop mWs | | |
| Hi-Temp 40 stainless steel | 40 | 135 | 34 | 1,9 | 300 | 1,3 | 962 | 1,8 |
| Hi-Temp 75 stainless steel | 75 | 260 | 43 | 5,5 | 300 | 1,7 | 963 | 2,3 |
| Hi-Temp 40 titanium | 40 | 135 | 52 | 1,5 | 300 | 1,1 | 962-T | 2,3 |
| Hi-Temp 75 titanium | 75 | 260 | 58 | 2,5 | 300 | 1,2 | 963-T | 3,5 |

# PLATE HEAT EXCHANGER BOLTED

These plate heat exchangers have been made to heat up warm bathing water. Thanks to the large exchange surface they are suitable for using low temperature heating systems, for example, solar heating systems, geothermal plants, heat
pumps and similar alternative and innovative heating systems.
**Available in stainless steel V4A/AISI 316 or titanium.**

- mounting direction horizontal and vertical



| Version | Code stainless steel | Code titanium | A | B | C | D | E | H1 / F | H2 / G | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 32 kW/109,0 kBtu/h | 920 | 925 | 200 mm | 460 mm | 69 mm | 380 mm | 110 mm | 1¼" x 50 x 40 | 1¼" / 42 mm | 26,5 mm |
| 55 kW/187,6 kBtu/h | 921 | 926 | 200 mm | 460 mm | 69 mm | 380 mm | 110 mm | 1¼" x 50 x 40 | 1¼" / 42 mm | 38 mm |
| 75 kW/255,8 kBtu/h | 922 | 927 | 200 mm | 460 mm | 69 mm | 380 mm | 110 mm | 1¼" x 50 x 40 | 1¼" / 42 mm | 49,5 mm |
| 100 kW/341,0 kBtu/h | 923 | 928 | 200 mm | 460 mm | 69 mm | 380 mm | 170 mm | 1¼" x 50 x 40 | 1¼" / 42 mm | 61 mm |
| 120 kW/409,2 kBtu/h | 924 | 929 | 200 mm | 460 mm | 69 mm | 380 mm | 170 mm | 1¼" x 50 x 40 | 1¼" / 42 mm | 72,5 mm |

| Technical information | 32 kW/109,0 kBtu/h | | 55 kW/187,6 kBtu/h | | 75 kW/255,8 kBtu/h | | 100 kW/341,0 kBtu/h | | 120 kW/409,2 kBtu/h | |
|---|---|---|---|---|---|---|---|---|---|---|
| | stainless steel | titanium | stainless steel | titanium | stainless steel | titanium | stainless steel | titanium | stainless steel | titanium |
| Material plates | V4A/AISI 316 | titanium | V4A/AISI 316 | titanium | V4A/AISI 316 | titanium | V4A/AISI 316 | titanium | V4A/AISI 316 | titanium |
| Material threated rod | AISI 304 | | AISI 304 | | AISI 304 | | AISI 304 | | AISI 304 | |
| Heat capacity | 32 kW /109,0 kBtu/h | | 55 kW/187,6 kBtu/h | | 75 kW/255,8 kBtu/h | | 100 kW/341,0 kBtu/h | | 120 kW/409,2 kBtu/h | |
| Primary in/out | 55/37,5 °C | | 55/36,5 °C | | 55/34,5 °C | | 55/35,5 °C | | 55/34 °C | |
| Secondary in/out | 20/37,2 °C | | 20/37,6 °C | | 20/36 °C | | 20/38,8 °C | | 20/37,5 °C | |
| Heat capacity | 23 kW/78,4 kBtu/h | | 40 kW/136,4 kBtu/h | | 54 kW/184,1 kBtu/h | | 70 kW/238,7 kBtu/h | | 84 kW/286,44 kBtu/h | |
| Primary in/out | 45/32,5 °C | | 45/31,6 °C | | 45/30,3 °C | | 45/31,5 °C | | 45/30,4 °C | |
| Secondary in/out | 20/32,5 °C | | 20/33 °C | | 20/31,5 °C | | 20/33,2 °C | | 20/32 °C | |
| Primary | 1,6 $m^3$/h | | 2,6 $m^3$/h | | 3,2 $m^3$/h | | 4,5 $m^3$/h | | 5 $m^3$/h | |
| Secudary | 1,6 $m^3$/h | | 2,7 $m^3$/h | | 4 $m^3$/h | | 4,6 $m^3$/h | | 6 $m^3$/h | |
| Pressure lost primary | 0,17 bar | | 0,2 bar | | 0,14 bar | | 0,21 bar | | 0,19 bar | |
| Pressure lost secondary | 0,18 bar | | 0,23 bar | | 0,28 bar | | 0,23 bar | | 0,28 bar | |
| Basis of calculation secondary | 20 °C | | 20 °C | | 20 °C | | 20°C | | 20 °C | |
| Installation pool | bypass | | bypass | | bypass | | bypass | | bypass | |
| Number plates | 9 | | 13 | | 17 | | 21 | | 25 | |
| Area | 0,29 $m^2$ | | 0,45 $m^2$ | | 0,62 $m^2$ | | 0,78 $m^2$ | | 0,94 $m^2$ | |
| Max. temperature | 90 °C | | 90 °C | | 90 °C | | 90 °C | | 90°C | |
| Max. pressure 1000 kPa | 10 bar | | 10 bar | | 10 bar | | 10 bar | | 10 bar | |
| Empty weight | 25 kg | 24 kg | 27 kg | 25 kg | 28 kg | 26 kg | 29 kg | 27 kg | 31 kg | 29 kg |
| Frame distance inside (J) | 26,5 mm | | 38 mm | | 49,5 mm | | 61 mm | | 72,5 mm | |
| Coated frame | structural steel S235JR, painted black | | structural steel S235JR, painted black | | structural steel S235JR, painted black | | structural steel S235JR, painted black | | structural steel S235JR, painted black | |
| Glued gaskets NBRHT | max. 150 °C | | max. 150 °C | | max. 150 °C | | max. 150 °C | | max. 150 °C | |
| **Code** | **920** | **925** | **921** | **926** | **922** | **927** | **923** | **928** | **924** | **929** |

# ELECTRIC HEATERS – SIMPLE AND EFFECTIVE

Electric heaters heat the water easily and effectively. An electric heater is easy to connect to the existing electrical power-mains and provides full power around the clock. The water from the swimming pool's circulation flows through the heater and is heated by the heating element. The heaters are compact and can be installed in all types of pools or spas. All electric heaters are designed for continuous flow with the lowest possible pressure drop.



## ELECTRIC HEATER

Electric heater to heat swimmingpools or whirlpools.
It is easily and simply connected to the water circuit with the gluing socket d 50 mm.
Perfect for permanent and mobile facilities.
Pressure switch for low water protection and highly corrosion proof heating elements in Incoloy 825, are very cost-effective without limiting fuctionality and quality.

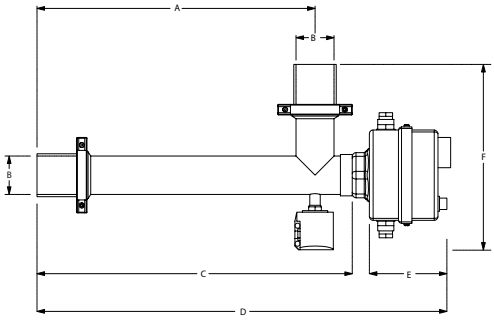
- max. pressure: 3 bar
- control thermostat 0-40°C
- safety thermostat 55°C
- mounting direction horizontal and vertical

**Version in titanium on request.**

1 year manufacturer's warranty

Including brackets

| Model | A (mm) | B | C (mm) | D (mm) | E (mm) | F (mm) |
|---|---|---|---|---|---|---|
| 3 kW / 10,2 kBtu/h | 293 | adhesive sleeve d 50 mm | 345 | 475 | 110 | 225 |
| 6 kW / 20,5 kBtu/h | 363 | adhesive sleeve d 50 mm | 415 | 545 | 110 | 225 |
| 9 kW / 30,7 kBtu/h | 363 | adhesive sleeve d 50 mm | 415 | 545 | 110 | 230 |
| 12 kW / 40,9 kBtu/h | 453 | adhesive sleeve d 50 mm | 505 | 635 | 110 | 230 |
| 15 kW / 51,2 kBtu/h | 553 | adhesive sleeve d 50 mm | 605 | 735 | 110 | 240 |
| 18 kW / 61,4 kBtu/h | 653 | adhesive sleeve d 50 mm | 705 | 835 | 110 | 240 |




| Heat performance | Ampere 400 V | Code | kg |
|---|---|---|---|
| 3 kW / 10,2 kBtu/h | 4,3 | 9EWT-3 | 2,5 |
| 6 kW / 20,5 kBtu/h | 8,7 | 9EWT-6 | 3,0 |
| 9 kW / 30,7 kBtu/h | 13,0 | 9EWT-9 | 3,0 |
| 12 kW / 40,9 kBtu/h | 17,3 | 9EWT-12 | 3,5 |
| 15 kW / 51,2 kBtu/h | 21,7 | 9EWT-15 | 4,5 |
| 18 kW / 61,4 kBtu/h | 26,0 | 9EWT-18 | 4,5 |

## COMPACT ELECTRIC HEATER 400 V
PLASTIC & INCOLOY

Electric heater made of thermoplastic for extra strength.
Heating element made of Incoloy 825.
Supplied with a thermostat for adjusting pool temperature as well as overheating cut out and flow switch.
Minimum flow 90 l/min. Max. pressure: 2.5 bar.
Suitable for private pools up to 100 $m^{3.}$

- housing of thermoplastic
- capacity 3 – 18 kW
- electric heater made of fiberglass reinforced thermoplastic
- horizontal installation, eliminates air pockets and damage to the electric heating element
- heating elements of Incoloy 825
- equipped with overheating cutout and flow switch
- supplied with rigid mountings
- union couplings for Ø 50 mm pipes
- mounting direction horizontal and vertical

Including brackets

2 years manufacturer's warranty

**Version in titanium on request.**

| Length mm | Performance kW | kBtu/h | Ampere 400 V | Code | kg |
|---|---|---|---|---|---|
| 358 | 3 | 10,2 | 5 | 901 | 1,7 |
| 358 | 6 | 20,5 | 9 | 902 | 1,7 |
| 540 | 9 | 30,7 | 14 | 903 | 1,7 |
| 540 | 12 | 40,9 | 18 | 904 | 2,1 |
| 540 | 15 | 51,2 | 22 | 905 | 2,1 |
| 540 | 18 | 61,4 | 27 | 906 | 2,1 |

## ELECTRIC HEATER 400 V COMPACT MODEL

Housing casing made of acid-resistant stainless steel AISI 316L with heating element of Incoloy 825, Pressure switch as low water protection 230/400 V, overheat thermostat and thermostat 0-45 °C, 1 1/2" internal thread. Minimum flow 85 l/min. Max. pressure: 4 bar.
Suitable for private pools up to 100 $m^3$

Including brackets

- housing of stainless steel AISI 316L
- capacity 3 – 18 kW
- electric heater made of fiberglass reinforced thermoplastic
- horizontal installation, eliminates air pockets and damage to the electric heating element
- heating elements of Incoloy 825
- equipped with overheating cutout and flow switch
- supplied with rigid mountings
- union couplings for Ø 50 mm pipes
- mounting direction horizontal and vertical

2 years manufacturer's warranty

**Version in titanium on request.**

| Length mm | Performance kW | kBtu/h | Ampere 400 V | Code | kg |
|---|---|---|---|---|---|
| 452,5 | 3 | 10,2 | 5 | 930-DS | 2,8 |
| 452,5 | 6 | 20,5 | 9 | 931-DS | 2,8 |
| 552,5 | 9 | 30,7 | 14 | 932-DS | 3,2 |
| 552,5 | 12 | 40,9 | 18 | 933-DS | 3,2 |
| 552,5 | 15 | 51,2 | 22 | 934-DS | 3,2 |
| 552,5 | 18 | 61,4 | 27 | 935-DS | 3,2 |

# ELECTRIC HEATER 230 and 400 V

## WITH DIGITAL DISPLAY

Including brackets

Corresponding to the electrical safety standard EN 60335-1:2001+A1+A2 and EN 60335-2-35:2002+A1.
Housing made of glassfibre reinforced thermoplastic with heating element of Incoloy 825, incl. digital control.
The desired pool temperature can be comfortably set and the current temperature is shown in the LED display.
Overheating protection, flow switch, slip connection for d 50 mm PVC pipe.
Minimum flow 90 l/min.
Max. pressure: max. 2 bar
Suitable for private pools up to 100 $m^3$

- housing made of glassfibre reinforced thermoplastic
- capacity range 3-15kW
- comes with contactors and electronics
- digital control and display
- heating elements of Incoloy 825
- equipped with overheating limit control and flow switch
- dual built-in contactors as per electrical safety standards

**Version in titanium on request.**

2 years manufacturer's warranty

| Length | Heating capacity kW | Ampere 230 V | Ampere 400 V | Code | kg |
|---|---|---|---|---|---|
| 425 mm | 3 | – | 5 | 910 | 2,55 |
| 425 mm | 6 | – | 9 | 911 | 2,55 |
| 607 mm | 9 | – | 13 | 912 | 2,55 |
| 607 mm | 12 | – | 18 | 913 | 3,0 |
| 607 mm | 15 | – | 22 | 914 | 3,0 |
| 425 mm | 3 | 13 | – | 915 | 2,55 |
| 425 mm | 6 | 26 | – | 916 | 2,55 |

# 04

# FILTERS & PUMPS

*A good water quality needs properly selected filter systems. It is the heart of every swimming pool!*
*The system must be optimally matched to the size of the pool and its hydraulics so that the water remains in motion.*
*We support you with our own MIDAS filters circulation pumps featuring a large and transparent opening, and filter glass as an efficient filter medium for your pool.*



## OVERVIEW


| | |
|---|---|
| 100 | MIDA.Globe GRP filter |
| 101 | MIDA.Rock GRP filter |
| 102 | MIDA.Carbon GRP filter |
| 103 | MIDA.Split filter |
| 104 | MIDA.Bobbin side mount filter |
| 105 | Lateral and nozzle / Fiberglass commercial sand filter |
| 107 | Filter media |
| 108 | Self priming filter pumps |
| 111 | Jet swim units |

# FILTER

NEW

INCLUDING 6-way valve and piping [1] or BESGO rod valve

## MIDA.Globe GRP filter

- filter tank with large 400 mm transparent lid (25 mm thick) and 300 mm opening at the top, for quick change of the filter medium
- 500 mm layer depth for #765 and 600 mm for #766
- made of high quality glass fiber reinforced plastic (GRP)
- **including** 1 ½" 6-way valve (310-C) or 1 ½" BESGO rod valve (#BE50125) for 500 mm, unmounted[1]
- **including** 2 "6-way valve (320-C) or 2" BESGO rod valve (#BE63230) for 600 mm, unmounted[1]
- **including** ⅛" manometer up to 3 bar, reduction of ¼" on ⅛" made of stainless steel V4A
- **including** Vent screw and large 2 ¾" drain valve with ball valve for regulation and ¾" hose nozzle
- **including** movable infeed head for easy filling (detachable via screw connection on the inside)
- 5 year guarantee on the filter container
- built-in parts made of PP, ABS and PVC
- all installed screws are made of stainless steel V4A and the nuts made of high strength corrosion resistant and nickel-plated brass
- distribution system: filter star (0.3 mm filter finger opening)
- DN40 / d50 mm connections (500 mm)
- DN50 / d63 mm connections (600 mm)
- distance between the connections: 125 mm at 500 mm (1.5") 230 mm at 600 mm (2")
- color: RAL 9010 pure white
- reinforced plastic filter base
- test pressure 3.75 bar
- max. operating temperature + 42 °C
- operating pressure: nominal: 1.5 bar, max: 2.5 bar

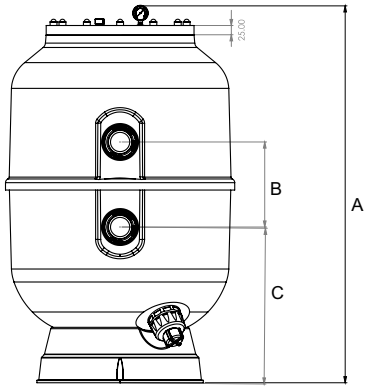
Konform zur DIN EN 16713

**Filters available with 6-way valve or with Besgo rod valve**

| Filter | Code |
|---|---|
| MIDA.Globe 500 mm incl. BESGO | 765-B |
| MIDA.Globe 600 mm incl. BESGO | 766-B |
| MIDA.Globe 500 mm incl. 6-way valve 1 ½" | 765 |
| MIDA.Globe 600 mm incl. 6-way valve 2" | 766 |

| A (mm) | B (mm) | C (mm) | Code |
|---|---|---|---|
| 995 | 125 | 468 | 765 |
| 1020 | 230 | 420 | 766 |

| Diameter | Total height | max. pool volume | Filter area | Amount of glass (0.5-1mm) grade 1 * | Amount of sand (0.4-0.8mm) * | Volume flow at 30 - 50 m³/h | Weight | Code |
|---|---|---|---|---|---|---|---|---|
| 500 mm | 995 mm | 65 m³ | 0,20 m² | 105 kg | 115 kg | 6 – 10 m³ | 18 kg | 765 |
| 600 mm | 1020 mm | 100 m³ | 0,28 m² | 160 kg | 175 kg | 8 - 14 m³ | 23 kg | 766 |




## OPTIONAL ACCESSORIES

| Article | Code |
|---|---|
| Filter pallet 750 x 500 x 35 mm | FP-750 |
| Filter pallet 1000 x 550 x 55 mm | FP-1000 |

[1] Delivery takes place in individual parts (not glued, glue and cleaner are not included in the scope of delivery)

*Not included in the scope of delivery

## MIDA.Rock GRP Filter

NEW

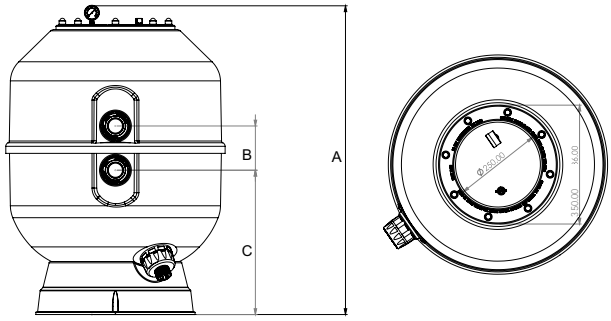
INCLUDING 6-way valve and piping [1] or BESGO rod valve

- filter tank with 270 mm transparent cover and 250 mm filling opening at the top
- made of high quality glass fiber reinforced plastic (GRP)
- **including** 1 ½" 6-way valve (#310-C), or 1 ½" BESGO rod valve (#BE50125) for 500 mm, unmounted[1]
- **including** 2" 6-way valve (#320-C) or 2" BESGO rod valve (#BE63230) for 600, 750 and 900 mm, unmounted[1]
- **including** 1/8" manometer up to 3 bar, reduction of 1/4" on 1/8" made of stainless steel V4A
- **including** vent screw and large 2 3/4" drain valve with ball valve for regulation and 3/4" hose nozzle
- **including** a movable infeed head for an easier filling (removable via screw connection on the inside)
- 5 year guarantee on the filter container
- built-in parts made of PP, ABS and PVC
- all installed screws are made of stainless steel V4A and the nuts made of high strength corrosion resistant and nickel-plated brass
- distribution system: filter star (0.3 mm filter finger opening)
- distance between the connections: 125 mm at 500 mm (DN40 / d50 mm connections) 230 mm at 600, 750 and 900 mm (DN50 / d63 mm connections)
- color: RAL 9010 pure white
- reinforced plastic filter base
- test pressure 3.75 bar
- maximum operating temperature + 50 °C
- operating pressure: nominal: 1.5 bar, max: 2.5 bar

DIN EN 16713

### Filters available with 6-way valve or with Besgo rod valve

| Filter | Code |
|---|---|
| MIDA.Rock 500 mm incl. BESGO | 756-B |
| MIDA.Rock 600 mm incl. BESGO | 757-B |
| MIDA.Rock 750 mm incl. BESGO | 758-B |
| MIDA.Rock 900 mm incl. BESGO | 759-B |
| MIDA.Rock 500 mm incl. 6-way valve 1 ½" | 756 |
| MIDA.Rock 600 mm incl. 6-way valve 2" | 757 |
| MIDA.Rock 750 mm incl. 6-way valve 2" | 758 |
| MIDA.Rock 900 mm incl. 6-way valve 2" | 759 |




| Diameter | max. pool volume | Filter area | Amount of glass (0.5-1mm) grade 1 * | Amount of sand (0.4-0.8mm) * | Volume flow at 30 - 50 m³/h | Weight | Code |
|---|---|---|---|---|---|---|---|
| 500 mm | 65 m³ | 0,20 m² | 90 kg | 100 kg | 6 - 10 m³ | 19 kg | 756 |
| 600 mm | 85 m³ | 0,28 m² | 160 kg | 175 kg | 8 - 14 m³ | 23 kg | 757 |
| 750 mm | 110 m³ | 0,44 m² | 275 kg | 300 kg | 13 - 22 m³ | 31 kg | 758 |
| 900 mm | 140 m³ | 0,64 m² | 450 kg | 500 kg | 19 - 32 m³ | 49 kg | 759 |

| A | B | C | Code |
|---|---|---|---|
| 790 mm | 125 mm | 368 mm | 756 |
| 870 mm | 230 mm | 340 mm | 757 |
| 976 mm | 230 mm | 370 mm | 758 |
| 1080 mm | 230 mm | 430 mm | 759 |

## OPTIONAL ACCESSORIES

| Article | Code |
|---|---|
| Filter pallet 750 x 500 x 35 mm | FP-750 |
| Filter pallet 1000 x 550 x 55 mm | FP-1000 |

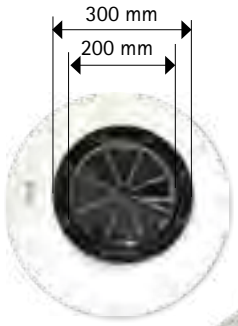
[1] Delivery takes place in individual parts (not glued, glue and cleaner are not included in the scope of delivery)

*Not included in the scope of delivery

## MIDA.Carbon GRP SAND FILTER

- filter tank with 300 mm transparent lid and 200 mm filling opening at the top
- made of high quality glass fiber reinforced plastic (GRP)
- **including** 1½" 6-way valve (#310-C), or 1 ½" BESGO rod valve (#BE50125) for 500 and 600 mm, unmounted[1]
- **including** 2" 6-way valve (#320-C), or 2" BESGO rod valve (#BE63230) for 750 and 900 mm, unmounted[1]
- **including** manometer up to 4 bar, ¼" and ⅛" reduction made of nickel-plated brass
- **including** bleed screw and large 1¼" drain valve
- **including** a movable inlet head for easy filling (can be loosened on the inside by screwing)
- grain of quartz sand: 0.4-0.8 mm; grain filter glass: 0.5-1.0 mm (filter media not including)
- 5 year warranty on the filter tank
- built-in parts made of PP, ABS and PVC
- all screws are made of stainless steel V2A and the nuts made of high-strength corrosion-resistant and nickel plated brass
- distribution system: filter finger (0.3 mm filter finger opening)
- DN40 / d50 mm connections
- distance between connections:
  125 mm at 500 + 600 mm
  230 mm at 750 + 900 mm
- color: RAL 9001 creamy white
- filter base made of reinforced plastic
- test pressure 3.75 bar
- max. operating temperature + 42 °C
- operating pressure: nominal: 1.5 bar, max: 2.5 bar

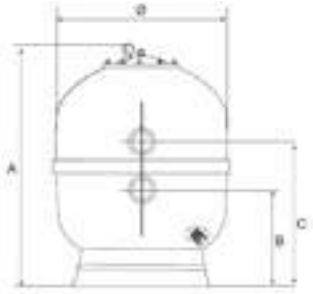
**INCLUDING**
6-way valve
and piping [1] or
BESGO rod valve



Konform zur DIN EN 16713

**Filters available with 6-way valve or with Besgo rod valve**

| Filter | Code |
|---|---|
| MIDA.Carbon 500 mm incl. BESGO | 718-B |
| MIDA.Carbon 600 mm incl. BESGO | 719-B |
| MIDA.Carbon 750 mm incl. BESGO | 720-B |
| MIDA.Carbon 900 mm incl. BESGO | 721-B |
| MIDA.Carbon 500 mm incl. 6-way valve 1 ½" | 718 |
| MIDA.Carbon 600 mm incl. 6-way valve 1 ½" | 719 |
| MIDA.Carbon 750 mm incl. 6-way valve 2" | 720 |
| MIDA.Carbon 900 mm incl. 6-way valve 2" | 721 |




| Dia-meter | Max. pool volume | Filter area | Quantity Glass (0.5–1 mm )grade 1* | Menge Sand (0,4–0,8 mm)* | Flow rate at 30 – 50 m³/h | Weight | Code |
|---|---|---|---|---|---|---|---|
| 500 mm | 65 m³ | 0,20 m² | 80 kg | 100 kg | 6 – 10 m³ | 18 kg | 718 |
| 600 mm | 85 m³ | 0,28 m² | 140 kg | 175 kg | 8 – 14 m³ | 22 kg | 719 |
| 750 mm | 110 m³ | 0,44 m² | 240 kg | 300 kg | 13 – 22 m³ | 30 kg | 720 |
| 900 mm | 140 m³ | 0,64 m² | 400 kg | 500 kg | 19 – 32 m³ | 48 kg | 721 |

| A | B | C | Code |
|---|---|---|---|
| 710 mm | 285 mm | 410 mm | 718 |
| 780 mm | 335 mm | 460 mm | 719 |
| 910 mm | 320 mm | 550 mm | 720 |
| 1050 mm | 350 mm | 580 mm | 721 |

## OPTIONAL ACCESSORIES

| Article | Code |
|---|---|
| Filter pallet 750 x 500 x 35 mm | FP-750 |
| Filter pallet 1000 x 550 x 55 mm | FP-1000 |

[1] Delivery takes place in individual parts (not glued, glue and cleaner are not included in the scope of delivery)

*Not included in the scope of delivery

# MIDA.Split SAND FILTER

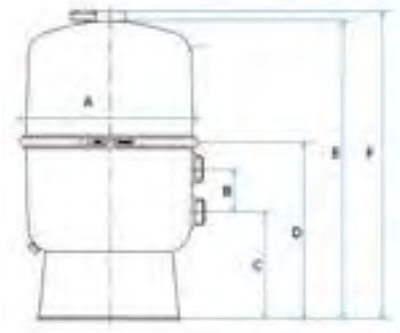
INCLUDING 6-way-valve and piping[1]

3 YEARS WARRANTY on filter tank

Made in Germany



- high quality filter made of fiberglass-reinforced polypropylene
- shared execution
- UV protection against fading
- **including** black stainless steel clamping ring for service-friendly opening
- **including** manometer ¼" up to 3.0 bar (at 400 mm), **including** manometer ⅜" to 2,5 bar (at 500 + 600 mm)
- **including** MIDAS 1½" 6-way valve (# 310-3TSB) side-mount, color: black), unmounted[1]
- **including** bleed screw and ¼" drain valve (at 400 mm),
- **including** bleed screw and ⅜" drain valve (at 500 + 600 mm)
- grain quartz sand: 0,4–0,8 mm; specification filter glass: 0,5–1,0 mm (filter media not including)
- all installed screws are made of stainless steel V2A
- distribution system: filter star
- DN40 / d50 mm connections
- distance between the connections: 102 mm
- color RAL 5024 pastel blue
- filter palette: optional
- operating pressure: nominal: 1.4 bar, max: 1.8 bar



| A min. | A max. | B | C | D | E | F | Art. Nr. |
|---|---|---|---|---|---|---|---|
| 440 mm | 470 mm | 102 mm | 264 mm | 426 mm | 713 mm | 754 mm | 751 |
| 547 mm | 580 mm | 102 mm | 300 mm | 461 mm | 783 mm | 825 mm | 753 |
| 652 mm | 670 mm | 102 mm | 372 mm | 555 mm | 979 mm | 1022 mm | 755 |

| Dia-meter | Total height | Max. pool volume | Connections in – out | Filter area | Quantity Glass 0.5– 1 mm (grade 1) | Quantity Sand 0.4–0.8 mm (grade 1) | Pressure work | max. | Flow rate at 30 – 50 $m^3/h/m^2$ | Weight | Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 mm | 725 mm | 40 $m^3$ | DN 40/D 50 | 0,126 $m^2$ | 40 kg | 50 kg | 1,4 bar | 1,7 bar | 4 – 6 $m^3$ | 8,7 kg | 751 |
| 500 mm | 830 mm | 65 $m^3$ | DN 40/D 50 | 0,196 $m^2$ | 70 kg | 90 kg | 1,4 bar | 1,8 bar | 6 – 10 $m^3$ | 14,0 kg | 753 |
| 600 mm | 1080 mm | 90 $m^3$ | DN 40/D 50 | 0,283 $m^2$ | 96 kg | 120 kg | 1,4 bar | 1,8 bar | 8 – 14 $m^3$ | 21,2 kg | 755 |

## OPTIONAL ACCESSORIES

| Article | Code | Gross price |
|---|---|---|
| Base plate 750 x 500 x 35 mm | FP-750 | |
| Base plate 1000 x550 x 55 mm | FP-1000 | |

[1] Delivery in individual parts (not glued, glue and cleaner are not including)

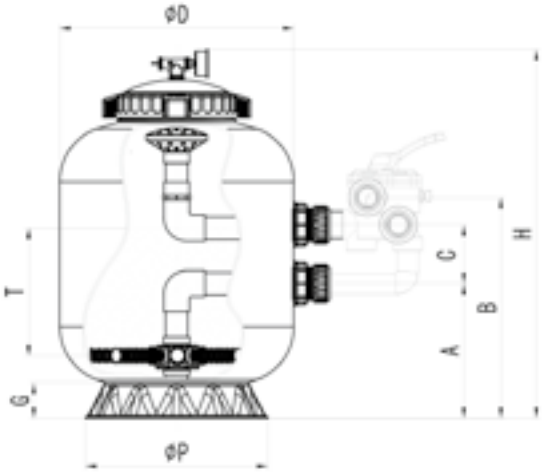
# MIDA.BOBBIN SIDE MOUNT FILTER

## INCLUDED 6-WAY-VALVE, PIPING, TRANSPARENT COVER AND FILTER FINGER

Polyester filter reinforced with fiberglass, with filter fingers, internal tubing, drain valve with a reduction to a hose, pressure gauge with de-aeration, 6-way valve.
Operating temperature: 40°C, color: green.

- maximum-working pressure: 250 kpa/36 psi/2.5 bar
- factory testing pressure: 400 kpa/58 psi/4.0 bar
- maximum temperature: 50 °C
- size of quartz sand: 0,4 – 0.8 mm
- size of filter glass: 0.5 – 1.0 mm
- delivery not mounted

KS450 – KS900



KS1000 – KS1200

Incl. 6-way-valve and piping[1]

| Model | Diameter | Connections in – out | Filter area | Quantity Glass 0,5–1 mm (grade 1) | Quantity Sand 0,4–0,8 mm (grade 1) | Max. Pressure | Flow rate at 30 – 50 $m^3/h/m^2$ | Valve | Opening size | Weight | Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KS450 | 450 mm | DN 40/D 50 | 0,16 $m^2$ | 40 kg | 50 kg | 2,5 bar | 5 – 8 $m^3/h$ | 1½" | Ø 200 mm | 14 kg | KS450 |
| KS500 | 500 mm | DN 40/D 50 | 0,20 $m^2$ | 72 kg | 90 kg | 2,5 bar | 6 – 10 $m^3/h$ | 1½" | Ø 242 mm | 17 kg | KS500 |
| KS650 | 630 mm | DN 40/D 50 | 0,32 $m^2$ | 120 kg | 150 kg | 2,5 bar | 9 – 16 $m^3/h$ | 1½" | Ø 242 mm | 22 kg | KS650 |
| KS700 | 700 mm | DN 40/D 50 | 0,38 $m^2$ | 168 kg | 210 kg | 2,5 bar | 12 – 19 $m^3/h$ | 1½" | Ø 242 mm | 28 kg | KS700 |
| KS750 | 750 mm | DN 50/D 63 | 0,44 $m^2$ | 204 kg | 255 kg | 2,5 bar | 13 – 22 $m^3/h$ | 2" | Ø 242 mm | 37 kg | KS750 |
| KS800 | 800 mm | DN 50/D 63 | 0,50 $m^2$ | 259 kg | 320 kg | 2,5 bar | 15 – 25 $m^3/h$ | 2" | Ø 242 mm | 43 kg | KS800 |
| KS900 | 900 mm | DN 50/D 63 | 0,64 $m^2$ | 392 kg | 490 kg | 2,5 bar | 19 – 32 $m^3/h$ | 2" | Ø 242 mm | 51 kg | KS900 |
| KS1000 | 1000 mm | DN 50/D 63 | 0,79 $m^2$ | 480 kg | 600 kg | 2,5 bar | 24 – 39 $m^3/h$ | 2" | 375 x 275 mm | 66 kg | KS1000 |
| KS1100 | 1100 mm | DN 50/D 63 | 0,95 $m^2$ | 640 kg | 800 kg | 2,5 bar | 28 – 47 $m^3/h$ | 2" | 375 x 275 mm | 72 kg | KS1100 |
| KS1200 | 1200 mm | DN 50/D 63 | 1,13 $m^2$ | 760 kg | 950 kg | 2,5 bar | 34 – 57 $m^3/h$ | 2" | 375 x 275 mm | 81 kg | KS1200 |

| Model | kg | D (mm) | H (mm) | A (mm) | C (mm) | B (mm) | T (mm) | G (mm) | P (mm) |
|---|---|---|---|---|---|---|---|---|---|
| KS450 | 12 | 450 | 660 | 260 | 125 | 445 | 250 | 75 | 390 |
| KS500 | 14 | 500 | 730 | 280 | 125 | 464 | 280 | 75 | 390 |
| KS650 | 19 | 630 | 790 | 310 | 125 | 494 | 300 | 95 | 565 |
| KS700 | 23 | 700 | 850 | 360 | 125 | 544 | 350 | 95 | 565 |
| KS750 | 31 | 750 | 980 | 385 | 220 | 680 | 400 | 95 | 565 |
| KS800 | 35 | 800 | 1010 | 385 | 220 | 680 | 420 | 150 | 790 |
| KS900 | 41 | 900 | 1110 | 430 | 220 | 725 | 480 | 150 | 790 |
| KS1000 | 64 | 1000 | 1160 | 460 | 220 | 755 | 510 | 150 | 790 |
| KS1100 | 70 | 1100 | 1260 | 540 | 220 | 835 | 560 | 180 | 1010 |
| KS1200 | 78 | 1200 | 1340 | 540 | 220 | 835 | 600 | 180 | 1010 |

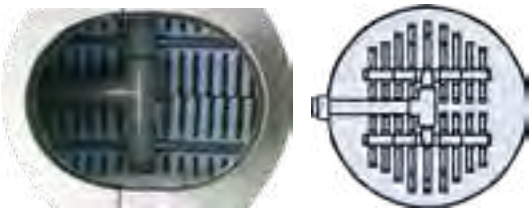
[1] not glued

## LATERAL AND NOZZLE

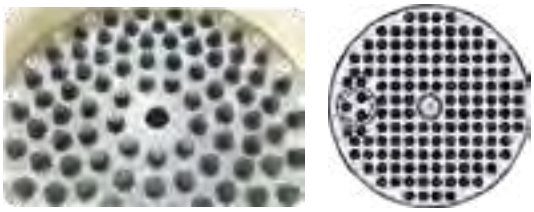
The nozzle plate system also allows the introduction of pressurised air directly into the bottom of the filter media. Uniform introduction of air and water through the nozzle plate provides vigorous rotation and filter media bed expansion required for and effective air/ water backwash leading to reduced backwashing times and reduced volumes of water. Including manhole and sightglass.

Filter fingers

Nozzle plate



Filter fingers

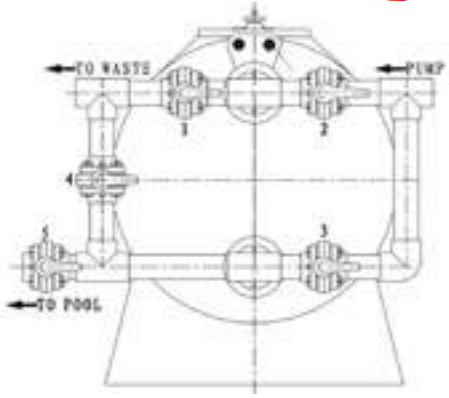


Nozzle

## FIBERGLASS COMMERCIAL SAND FILTER

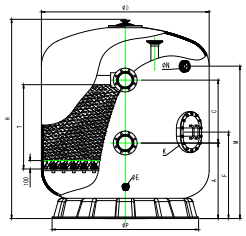
- fiberglass wound tank, UV and corrosion resistant
- manual air release valve and air tube enables easy release of trapped air during operation and testing
- sight glass and manhole are available optionally
- filter finger for maximum hydraulic performance
- nozzle plate system ensures uniform flow for both filtering and backwashing, ensuring maximum performance through the media bed. Save up to 25 % of backwash water
- maximum working pressure: 250 kpa / 36 psi / 2.5 bar or 400 kpa / 58 psi / 4.0 bar
- factory testing pressure: 400 kpa / 58 psi / 4.0 bar or 600 kpa / 86 psi / 6.0 bar
- size of quartz sand: 0.4 – 0.8 mm
- size of filter glass: 1.0 – 3.0 mm

Cover Lid



# FIBERGLASS COMMERCIAL SAND FILTER WITH NOZZLE

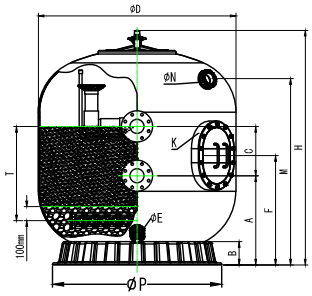
| Filter diameter | Connections in – out | Filter area | Quantity Sand 0,5 – 1 mm (grade 1) | Quantity Sand 0,7 – 1,2 mm (grade 2) | Max. Pressure | Flow rate at 30 – 50 $m^3/h/m^2$ | Weight | Code |
|---|---|---|---|---|---|---|---|---|
| 1400 mm | 110 mm | 1.54 $m^2$ | 1800 kg | 220 kg | 2,5 bar | 46 – 77 $m^3$ | | N140 |
| 1600 mm | 110 mm | 2.01 $m^2$ | 2300 kg | 300 kg | 2,5 bar | 60 – 100 $m^3$ | | N160 |
| 1800 mm | 160 mm | 2.54 $m^2$ | 2900 kg | 360 kg | 2,5 bar | 76 – 127 $m^3$ | | N180 |
| 2000 mm | 160 mm | 3.14 $m^2$ | 3600 kg | 440 kg | 2,5 bar | 94 – 157 $m^3$ | | N200 |
| 2300 mm | 200 mm | 4.15 $m^2$ | 4800 kg | 580 kg | 2,5 bar | 125 – 208 $m^3$ | | N230 |
| 2500 mm | 200 mm | 4.90 $m^2$ | 5700 kg | 680 kg | 2,5 bar | 147 – 245 $m^3$ | | N250 |



| Model | Ø D (mm) | H (mm) | A (mm) | C (mm) | F (mm) | M (mm) | T (mm) | W (mm) | K (mm) | Ø N (mm) | Ø E (mm) | Ø P (mm) | B (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N140 | 1410 | 1900 | 700 | 550 | 850 | 1400 | 1000 | 300 | 300x400 | 75 | 40 | 1215 | 165 |
| N160 | 1620 | 2000 | 810 | 550 | 900 | 1500 | 1000 | 320 | 300x400 | 75 | 40 | 1450 | 215 |
| N180 | 1830 | 2100 | 850 | 550 | 980 | 1600 | 1000 | 320 | 300x400 | 75 | 40 | 1610 | 215 |
| N200 | 2030 | 2200 | 900 | 550 | 1030 | 1650 | 1000 | 350 | 300x400 | 75 | 40 | 1800 | 240 |
| N230 | 2300 | 2350 | 940 | 600 | 1070 | 1800 | 1000 | 400 | 300x400 | 75 | 40 | 2010 | 240 |
| N250 | 2500 | 2400 | 960 | 600 | 1100 | 1900 | 1000 | 400 | 300x400 | 75 | 40 | 2010 | 240 |

# FIBERGLASS COMMERCIAL SAND FILTER WITH FILTER FINGER

| Diameter | Connections in – out | Filter area | Quantity Sand 0,5 – 1 mm (grade 1) | Quantity Sand 0,7 – 1,2 mm (grade 2) | Max. Pressure | Flow rate at 30 – 50 $m^3/h/m^2$ | Code |
|---|---|---|---|---|---|---|---|
| 1200 mm | 90 mm | 1.13 $m^2$ | 750 kg | 300 kg | 2,5 bar | 34 – 57 $m^3$ | K120 |
| 1400 mm | 110 mm | 1.54 $m^2$ | 1200 kg | 500 kg | 2,5 bar | 46 – 77 $m^3$ | K140 |
| 1600 mm | 110 mm | 2.01 $m^2$ | 1850 kg | 750 kg | 2,5 bar | 60 – 100 $m^3$ | K160 |
| 1800 mm | 160 mm | 2.54 $m^2$ | 2500 kg | 750 kg | 2,5 bar | 76 – 127 $m^3$ | K180 |
| 2000 mm | 160 mm | 3.14 $m^2$ | 3300 kg | 1150 kg | 2,5 bar | 94 – 157 $m^3$ | K200 |
| 2300 mm | 200 mm | 4.15 $m^2$ | 4900 kg | 1600 kg | 2,5 bar | 125 – 208 $m^3$ | K230 |
| 2500 mm | 200 mm | 4.90 $m^2$ | 6000 kg | 2200 kg | 2,5 bar | 147 – 245 $m^3$ | K250 |
| 3000 mm | 200 mm | 7.07 $m^2$ | 8600 kg | 3300 kg | 2,5 bar | 212 – 353 $m^3$ | K300 |

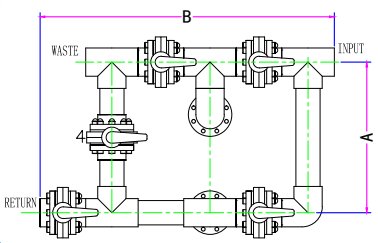


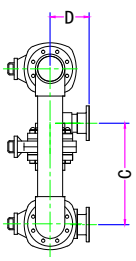

| Model | Ø D (mm) | H (mm) | A (mm) | C (mm) | F (mm) | M (mm) | T (mm) | K (mm) | Ø N (mm) | Ø E (mm) | Ø P (mm) | B (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K120 | 1200 | 1400 | 560 | 340 | 740 | 1050 | 600 | 180x180 | 75 | 60 | 1010 | 180 |
| K140 | 1400 | 1600 | 650 | 350 | 800 | 1250 | 700 | 300x400 | 75 | 60 | 1215 | 165 |
| K160 | 1600 | 1750 | 680 | 450 | 870 | 1450 | 800 | 300x400 | 75 | 60 | 1415 | 215 |
| K180 | 1800 | 1950 | 730 | 550 | 910 | 1650 | 850 | 300x400 | 75 | 60 | 1610 | 215 |
| K200 | 2000 | 2140 | 800 | 550 | 1050 | 1700 | 900 | 300x400 | 75 | 60 | 1800 | 240 |
| K230 | 2300 | 2350 | 940 | 600 | 1070 | 1800 | 1000 | 300x400 | 75 | 60 | 2010 | 240 |
| K250 | 2500 | 2400 | 960 | 600 | 1100 | 1900 | 1050 | 300x400 | 75 | 60 | 2010 | 240 |
| K300 | 3000 | 2650 | 1020 | 600 | 1130 | 2150 | 1100 | 300x400 | 75 | 60 | 2650 | 350 |

## PIPING FOR K-SERIES FILTER

| Model | A | B | C | D | Ø diameter | Code |
|---|---|---|---|---|---|---|
| K120 | 545 mm | 1200 mm | 340 mm | 173 mm | 90 mm | BV90 |
| K140 | 596 mm | 1400 mm | 350 mm | 207 mm | 110 mm | BV110 |
| K160 | 696 mm | 1400 mm | 450 mm | 207 mm | 110 mm | BV110 |
| K180 K200 | 900 mm | 1945 mm | 550 mm | 287 mm | 160 mm | BV160 |

| | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Filter | close | open | close | close | open |
| Back wash | open | close | open | close | close |
| Rinse | close | open | close | open | close |




## OPTIONAL EQUIPMENT (SET) FOR K-SERIES FILTER

| Model | Available for Filter Code | Code |
|---|---|---|
| Manhole and Sightglass | K120 | K12-E1 |
| Manhole and Sightglass | from K140/N140 – K300/N250 | K14-E1 |

Manhole

Sightglass

# FILTER MEDIA

## FILTER GLASS

Glass is an environmentally friendly, cost effective alternative to quartz sand. The filter medium is made from recycled glass, so scarce resources do not have to be used. The glass is less dense than sand, requiring 20 % less media to fill the equivalent filter. Glass removes up to 30 % more pollutants than sand.

- 100 % recycling glass for crystal clear water
- sub-angular, dried
- more efficient to use
- sustainable and environmently friendly
- good backwashing, removal of dirt
- require less maintenance compared to sand
- pallet contains 50 bags à 20 kg

grade 1

grade 2

| Filter material | Grain size (mm) | Weight | Code |
|---|---|---|---|
| Filter glass grade 1 | 0,5 - 1,0 | 20 kg | 791 |
| Filter glass grade 2 | 1,0 - 3,0 | 20 kg | 792 |

Filter glass grade 3 (3.0 - 6.0 mm grit) available on request.

## QUARTZ SAND

- standard filter medium
- corresponding to DIN 4924 (fountain construction) / EN12904 (drinking water treatment)
- washed several times, sieved and dried
- no sharp edges
- particle density 2,7 g/cm$^3$
- free of organic impurities
- pallet contains 40 bags à 25 kg

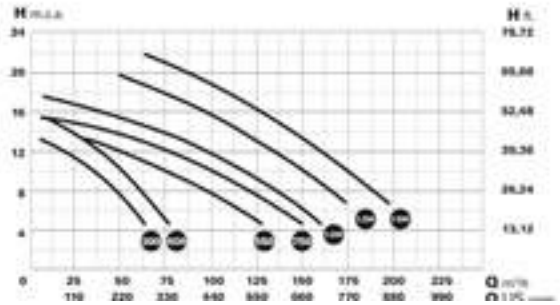
Made in Germany

| Filter material | Grain size (mm) | bulk density | Weight | Code |
|---|---|---|---|---|
| Quartz sand grade 1 | 0,4 - 0,8 | 1,4 g/cm$^3$ | 25 kg | 780 |
| Quartz sand grade 2 | 0,7 - 1,2 | 1,4 g/cm$^3$ | 25 kg | 785 |
| Quartz sand grade 3 | 2,0 - 3,2 | 1,4 g/cm$^3$ | 25 kg | 781 |

# SELF PRIMING FILTER PUMPS

## SELF-PRIMING FILTER PUMP MIDA.Aurel

For max. 500 m³ pools. High flow self priming pump with 1,450 rpm or 2,850 rpm motor, designed for big filtration installations. Equipped with a big capacity strainer in the inlet that among its excellent performance generates a high filtration capacity. Prefilter with a transparent lid that allows easy inspection of the basket. Features standard connection flanges which together with a broad base make the system especially robust. Mating flanges not including (available on request).
No possible electrical contact with the water as no part of the motor is open to it.
Use in salt electrolysis: possible.
Use in sea water: possible – when fitted with AISI-316 mechanical seal (available on request).



**Applications: super-quiet pump (1,450 rpm).**
High-volume self-priming pump available in 1,450 rpm and 2,850 rpm versions, ideal for larger filtration systems. Features large suction-side pre-filter which together with excellent hydraulic performance ensures extremely high filtration capacity. Filter with polycarbonate cover for easy viewing of pre-filter basket contents.
Counter-flanges not supplied as standard (available on request).
Turbine available in 2 versions, Noryl or marine bronze, as per request.
Constructive Characteristics: Pre-filter body, pump body, volute, pump base and cover in glass-fibre loaded polypropylene resistant to pool chemicals. Pre-filter basket in polythene. Polycarbonate pre-filter cover with four-pin closure system.
Mechanical seal in ceramic carbon and AISI-304 stainless steel.
Screws in AISI-304 stainless steel. Shaft in AISI-316 stainless steel.

**Motor:** Enclosed asynchronous motor with external ventilation.
Protection grade IP-55. Class F insulation.
1,450 rpm and 2,850 rpm. Double frequency (50 Hz and 60 Hz).
Motor bearings greased for life to ensure long duration and silent operation.

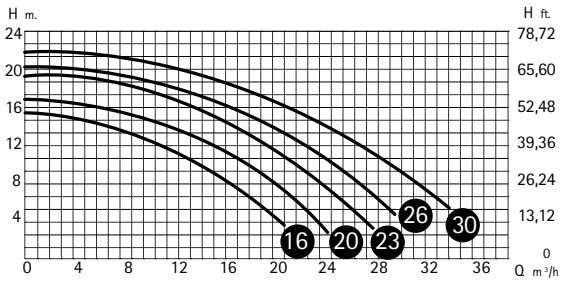
| Type | Voltage | Power output kW | Power output HP | Pump capacity* | r.p.m. | Connection on suction and on pressure side | kg | Code Noryl Impeller | Noryl Impeller | Code Bronze Impeller | Bronze Impeller |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MIDA.Aurel 300 | 380 V | 2,2 | 3,0 | 43 m³/h | 1.450 | DN 110 flanged | 42,5 | 993.3 | | | |
| MIDA.Aurel 400 | 380 V | 3,0 | 4,0 | 56 m³/h | 1.450 | DN 110 flanged | 44,5 | 994.3 | | | |
| MIDA.Aurel 550 | 380 V | 4,0 | 5,5 | 84 m³/h | 1.450 | DN 110 flanged | 53,4 | Aurel 5,5 HP | | Aurel 5,5 BR | |
| MIDA.Aurel 750 | 380 V | 5,5 | 7,5 | 107 m³/h | 1.450 | DN 110 flanged | 66,0 | Aurel 7,5 HP | | Aurel 7,5 BR | |
| MIDA.Aurel 1000 | 380 V | 7,5 | 10,0 | 126 m³/h | 1.450 | DN 110 flanged | 76,0 | Aurel 10,0 HP | | Aurel 10,0 BR | |
| MIDA.Aurel 1250 | 380 V | 9,2 | 12,5 | 152 m³/h | 2.850 | DN 110 flanged | 84,5 | | | Aurel 12,5 BR | |
| MIDA.Aurel 1500 | 380 V | 11,0 | 15,0 | 177 m³/h | 2.850 | DN 110 flanged | 85,5 | | | Aurel 15,0 BR | |

*pump power at 10 m/wh

## SELF-PRIMING FILTER PUMP
## MIDA.Gamma

For max. 120 m³ pools. Circulation of swimming pool water through a filter system. Salt concentration up to 0,5 %. Installation up to 3 m above or below water level. Single-stage centrifugal pump with integrated pre-filter.
Use in salt electrolysis: on request.
Use in sea water: impossible.

Electrical self priming pump for pools with large pre-filter, which, together with its excellent hydraulic performance, gives a very large filtering capacity.
A filter with a transparent, polycarbonate lid that easily allows inspection of the interior of the pre-filter sieve. No possible electrical contact with the water to ensure safety. Includes a standard key for effortless opening of the pre-filter lid. Cable length: 1.5 m.



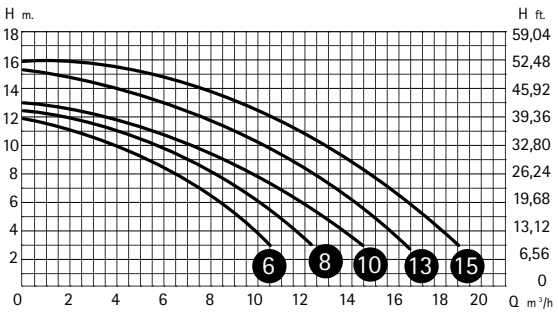

| Type | Voltage | Power output kW | HP | Pump capacity* | Connections (suction and pressure side) | kg | Code |
|---|---|---|---|---|---|---|---|
| MIDA.Gamma 16 | 230 V / 50 Hz | 0,55 | 0,75 | 15,7 m³/h | 63 mm PVC / 2" internal thread | 11,9 | Gamma 16 |
| MIDA.Gamma 20 | 230 V / 50 Hz | 0,75 | 1,00 | 19,7 m³/h | 63 mm PVC / 2" internal thread | 13,1 | Gamma 20 |
| MIDA.Gamma 23 | 230 V / 50 Hz | 1,10 | 1,50 | 23,0 m³/h | 63 mm PVC / 2" internal thread | 15,5 | Gamma 23 |
| MIDA.Gamma 26 | 230 V / 50 Hz | 1,50 | 2,00 | 26,0 m³/h | 63 mm PVC / 2" internal thread | 17,1 | Gamma 26 |
| MIDA.Gamma 30 | 230 V / 50 Hz | 2,20 | 3,00 | 30,0 m³/h | 63 mm PVC / 2" internal thread | 21,0 | Gamma 30 |

* Indication of pump output at 8 m / Ws

## SELF-PRIMING FILTER PUMP
## MIDA.Alpha

For max. 60 m³ pools. Circulation of swimming pool water through a filter system. Salt concentration up to 0,5 %. Installation up to 3 m above or below water level. Single-stage centrifugal pump with integrated pre-filter.
Use in salt electrolysis: on request.
Use in sea water: impossible.

Electrical self priming pump for pools with large pre-filter, which, together with its excellent hydraulic performance, gives a very large filtering capacity.
A filter with a transparent, polycarbonate lid that easily allows inspection of the interior of the pre-filter sieve. No possible electrical contact with the water to ensure safety. Cable length: 1.5 m.

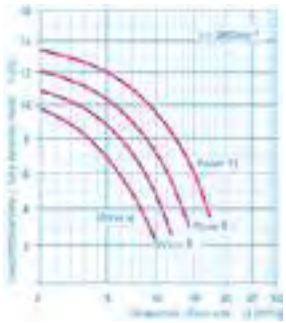



| Type | Voltage | Power output kW | HP | Pump capacity* | Connections (suction and pressure side) | kg | Code |
|---|---|---|---|---|---|---|---|
| MIDA.Alpha 6 | 230 V / 50 Hz | 0,16 | 0,25 | 6,0 m³/h | 50 mm PVC / 1½" internal thread | 8,5 | Alpha 6 |
| MIDA.Alpha 8 | 230 V / 50 Hz | 0,25 | 0,33 | 8,0 m³/h | 50 mm PVC / 1½" internal thread | 8,5 | Alpha 8 |
| MIDA.Alpha 10 | 230 V / 50 Hz | 0,37 | 0,50 | 10,0 m³/h | 50 mm PVC / 1½" internal thread | 8,5 | Alpha 10 |
| MIDA.Alpha 13 | 230 V / 50 Hz | 0,55 | 0,75 | 12,5 m³/h | 50 mm PVC / 1½" internal thread | 9,9 | Alpha 13 |
| MIDA.Alpha 15 | 230 V / 50 Hz | 0,75 | 1,00 | 15,3 m³/h | 50 mm PVC / 1½" internal thread | 9,9 | Alpha 15 |

*pump power at 8 m/wh

## SELF-PRIMING FILTER PUMP MIDA.Wave

For max. 50 m³ pools. Self-priming plastic pump for circulating pool water and with integrated strainer (fiber catcher), connection on both sides with union nut 50 mm or hose connection 38/32 mm (both including), 230 V, incl. cable & plug, 230 V, corrosion-resistant against pool water and the feeding chemicals, fast self-priming ensures a trouble-free installation of the filter system and good floor vacuuming. The filter pump is arrangeable max. 2.0 m above the water level or max. 3 m below the water level.
Block pump with integrated strainer (fiber catcher), bellows mechanical seal mounted in plastic runner hub, motor or pump shaft is not in contact with pool water!
Degree of protection IP54. Delivery includes a 1.5 m connection cable.
Use in salt electrolysis: possible (up to 0.5%).
Use in sea water: impossible.



| Type | Voltage | Power output kW | HP | Pump capacity* | Connection on suction and on pressure side | kg | Code |
|---|---|---|---|---|---|---|---|
| MIDA.Wave 4 | 230 V 50 Hz | 0,18 | 0,25 | 4 m³/h | either 50mm adhesive or 32/38 mm hose connection on both sides | 6,4 | 22700 |
| MIDA.Wave 6 | 230 V 50 Hz | 0,30 | 0,41 | 6 m³/h | either 50mm adhesive or 32/38 mm hose connection on both sides | 6,8 | 22701 |
| MIDA.Wave 8 | 230 V 50 Hz | 0,40 | 0,54 | 8 m³/h | either 50mm adhesive or 32/38 mm hose connection on both sides | 7,8 | 22702 |
| MIDA.Wave 11 | 230 V 50 Hz | 0,50 | 0,75 | 11 m³/h | either 50mm adhesive or 32/38 mm hose connection on both sides | 8,8 | 22703 |

*pump power at 10 m/wh

## SELF-PRIMING FILTER PUMP MIDA.Pombi

For max. 60 m³ pools, made of plastic, with integrated pre-filter, for the circulation of swimming pool water, Connenction 1½" internal thread with hose fittings 32/38 mm, 230 V
Use in salt electrolysis: possible (up to 0.4%).
Use in sea water: impossible.

| Type | Voltage | Power input kW | HP | Power output kW | HP | Pump capacity* | Connection on suction and on pressure side | kg | Code |
|---|---|---|---|---|---|---|---|---|---|
| MIDA.Pombi 4 | 230 V 50 Hz | 0,29 | 0,38 | 0,20 | 0,26 | 7 m³/h | 1½" internal thread on both sides with hose nozzles 32/38 mm | 5,9 | 22737 |
| MIDA.Pombi 6 | 230 V 50 Hz | 0,41 | 0,54 | 0,30 | 0,40 | 11 m³/h | 1½" internal thread on both sides with hose nozzles 32/38 mm | 9,0 | 22738 |
| MIDA.Pombi 8 | 230 V 50 Hz | 0,49 | 0,65 | 0,35 | 0,46 | 13 m³/h | 1½" internal thread on both sides with hose nozzles 32/38 mm | 9,9 | 22739 |
| MIDA.Pombi 10 | 230 V 50 Hz | 0,86 | 1,14 | 0,60 | 0,80 | 14,5 m³/h | 1½" internal thread on both sides with hose nozzles 32/38 mm | 10,9 | 22740 |

*pump power at 8 m/wh

# JET SWIM UNIT

A jet swim unit is the ideal aid for training, exercise and fun.
It creates jet currents that are strong enough to swim against.

## BADU Jet Turbo Pro

INNOVATION, PERFORMANCE AND ELEGANT DESIGN UNITED.

For wall installation in all pool designs, with prefabricated pools up to a wall thickness of 7 mm, except round pool.
For performance-oriented professional workouts, for relaxation, rehab training, fitness or for fun.

Through a flush-mounted installation housing in the pool, water is drawn in through the panel using innovative propeller technology and returned to the pool with a powerful jet. The system is driven by an efficient, fanless, fully encapsulated permanent magnet motor. The power control as well as the switching on and off takes place via the integrated piezo button or a remote control.
Note: max. Salt concentration 0.5%

- ABS installation housing
- ABS nozzle housing
- cover ABS / stainless steel V4A
- PPE intermediate flange
- plastic drive unit
- SiC / SiC plain bearings
- V4A stainless steel screws

Requested.

BADU 5 JAHRE QUALITÄTS GARANTIE

According to the guarantee condition.

350 m³/h

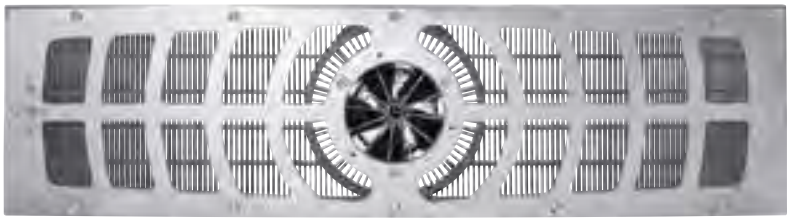
## Standard mounting kit

for Design 1 and Design 2

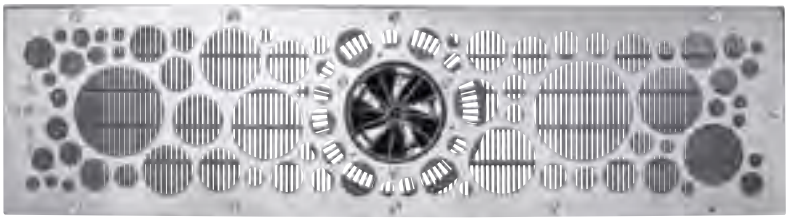
**Delivery:**

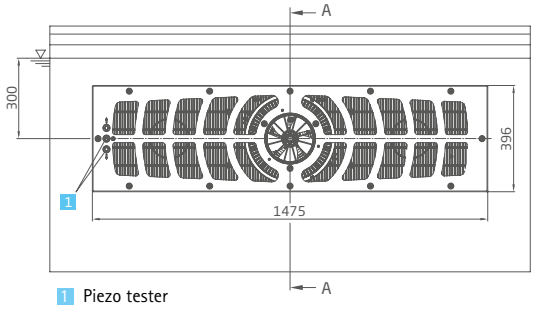
- plastic installation housing
- intake panel
- stainless steel cover V4A design 1 or design 2
- magnet unit
- nozzle unit
- piezo button
- seals
- V4A stainless steel screws

design 1



design 2






1 Piezo tester

Scan OR code:
DADU JET countercurrent systems application video

| Article | Code |
|---|---|
| BADU JET Turbo Pro, design 1 | 1203-T1 |
| BADU JET Turbo Pro, design 2 | 1203-T2 |

Article # 1203-TA, # 1203-TA1 or # 1203-TA1 is mandatory.

## Drive set 3 N ~ final assembly set

**Delivery:**

- Motor unit *
- Frequency converter
- Control box
- Remote control waterproof
- Screws stainless steel V4A
- Shielded connecting cable, 3 lengths can be selected (see below)

**Technical specifications:**

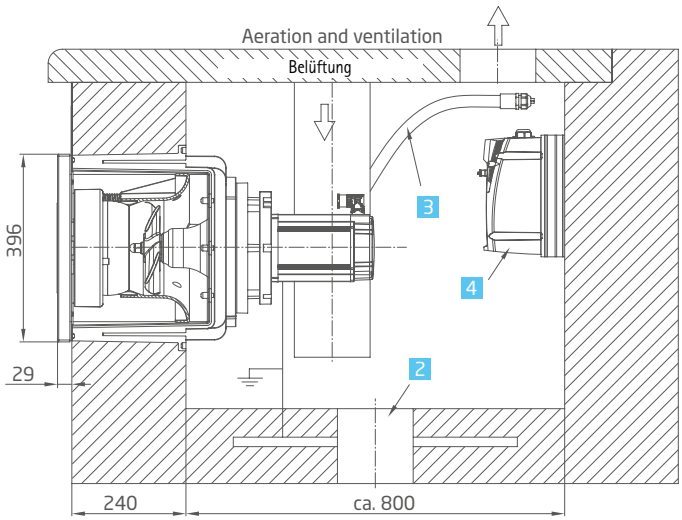
at 50/60 Hz BADU JET Turbo Pro frequency converter

- Power 4.00 kW
- Mains voltage 380-480 V
- Net weight 6.00 kg

**Technical specifications:**

at 50/60 Hz BADU JET Turbo Pro drive unit

- Flow rate 150-350 m³ / h
- Power consumption P1 / output P2 3.60 / 3.00 kW
- Number of nozzles 1 (Ø 172 mm)
- Outflow speed 1.80-4.10 m / s
- Nozzle can be swiveled to all sides ± 5 degrees
- Net weight 51.50 kg




2 Floor drain
3 Protective hose, piezo push button cable
4 Frequency converter

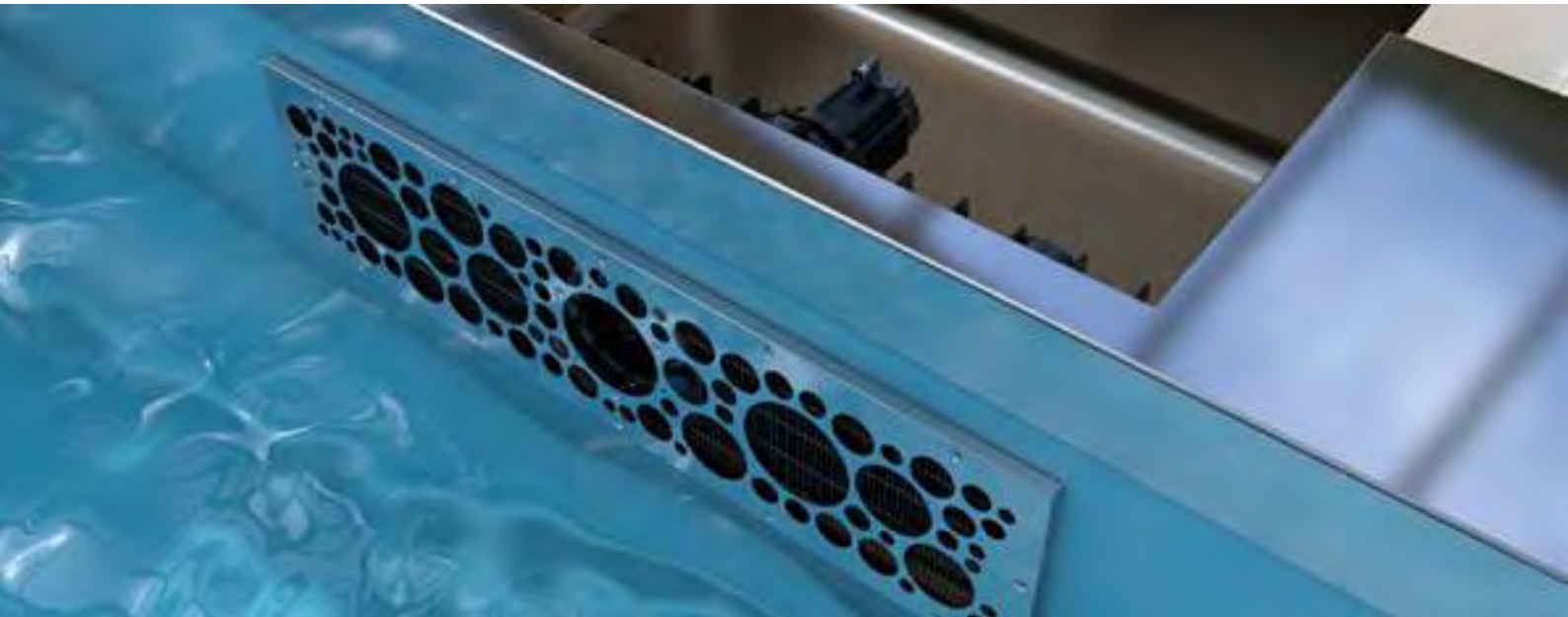
| Article | Voltage | Power output P2 | Cable length | Code |
|---|---|---|---|---|
| BADU JET Turbo Pro Trim kit | 400 V | 3,00 kW | 45 m | 1203-TA1 |
| BADU JET Turbo Pro Trim kit | 400 V | 3,00 kW | 25 m | 1203-TA2 |
| BADU JET Turbo Pro Trim kit | 400 V | 3,00 kW | 10 m | 1203-TA |

## Additional kit

| Article | Code |
|---|---|
| Additional kit for prefabricated pools with a wall thickness of 8-17 mm | 1203-ZK |
| Additional kit for prefabricated pools with a wall thickness of 18-27 mm | 1203-ZK1 |

For pool wall thicknesses from 8 mm on request.
When ordering a complete system, please refer to article no. Specify the standard mounting kit and drive kit.

***Max. salt concentration 0.5%



# BADU Jet Primavera

INNOVATION, PERFORMANCE AND ELEGANT DESIGN UNITED.

For wall installation in all pool designs, as an attraction, for fitness, as a wave or bubble bath, for underwater massage after medical advice. Swimming is also possible without turning in small pools.

Water is sucked in through a flush-mounted plastic installation and nozzle housing with a powerful BADU pump connected via a suction and pressure line and with a powerful jet via two adjustable nozzles - can be swiveled by 60° on all sides - returned to the swimming pool.
A large number of openings in the intake panel ensure an extremely low intake flow.
The eye-catcher of this system is a high-quality stainless steel cover, which impresses with a flowing and homogeneous design. One creates a cozy atmosphere built-in LED light, including the pneumatic on / off switch and the regulation for the sparkling bubble bath, can be operated from the pool.
Note: max. Salt concentration 0.5%

- ABS installation housing
- ABS nozzle housing
- PP / PC / ASA internal parts
- PVC suction / pressure line
- gate valves and fittings PVC
- cover / handle stainless steel V4A

| Technical data at 50 Hz | 21-81/33 G 29° * | 21-81/34 G 29° * |
|---|---|---|
| Pump flow rate (m3 / h) | 75 | 85 |
| Voltage | 3 N~ 400/230 V/1~230 V | 3 N~ Δ 400 V |
| Power consumption P1 / output P2 (kW) | 3,74/3,00/3,90/3,00 | 4,55/4,00 |
| Number of nozzles (Ø 40 mm) | 2 | 2 |
| Inflow pressure at the nozzles (bar) | 1,00 | 1,00 |
| Outflow velocity in the middle 2 m in front of the nozzles (m /s) | 1,10 | 1,20 |
| Massage pressure (bar) max. | 1,60 | 1,80 |
| Nozzles can be swiveled on all sides (degrees) | 60 | 60 |

* 21-81: drive pump Badu 21-81
33 G: suction / pressure connection d 90 mm
29 °: angled pressure connection (indication of the angular position)

| Execution | Voltage | Power output P2 | Code |
|---|---|---|---|
| BADU Jet Primavera Pre-assembly kit | | | BJ-PV01 |
| BADU JET „Primavera“ with white LED, trim kit | 230 V | 3,00 KW | 1201-PFM1 |
| BADU JET „Primavera“ with multicolor LED, trim kit | 230 V | 3,00 kW | 1201-PFM2 |
| BADU JET „Primavera“ with white LED, trim kit | 400 V | 3,00 kW | 1201-PFM3 |
| BADU JET „Primavera“ with multicolor LED, trim kit | 400 V | 3,00 kW | 1201-PFM4 |
| BADU JET „Primavera“ with white LED, trim kit | 400 V | 4,0 kW | 1201-PFM5 |
| BADU JET „Primavera“ with multicolor LED, trim kit | 400 V | 4,00 kW | 1201-PFM6 |
| Additional KIT for BADU JET „Primavera“ for tiled pools | | | 1201-P-KIT |

**Max. 400 mg / l chloride content for V4A stainless steel / AISI 316

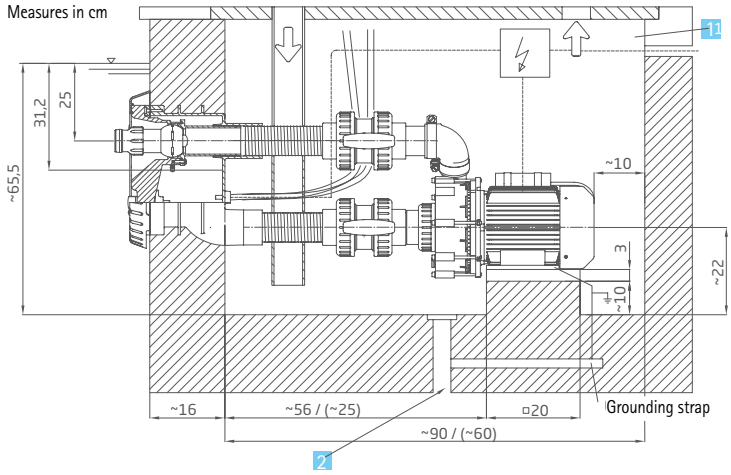
***Max. salt concentration 0.5%

# BADU JET SMART

EXERCISE AND FUN IN THE WATER!

The compact entry-level model, also suitable for salt electrolysis. For wall installation in all pool designs, as an attraction, for fitness, as a wave or bubble bath, for underwater massage according to medical advice. Swimming is also possible in small pools without turning.
A plastic built-in and nozzle housing that is flush in the pool is used to suck in water with a powerful BADU pump connected via a suction and pressure line and then return it to the pool with a powerful jet via an adjustable nozzle that can be swiveled by 60 ° on all sides. Many openings around the nozzle housing ensure an extremely low suction flow. The pneumatic on / off switch and the control for the sparkling air bubble bath are located in the nozzle housing.
**Note: max.salt concentration 0.5%**

1 Shaft width at least 70 cm
2 Floor drain
Ventilation DN 100
Measures in cm




- Installation housing made of ABS
- Nozzle housing made of ABS
- Inner parts made of ABS / stainless steel
- Suction / pressure line made of PVC
- Ball valves and fittings made of PVC

| Technical data at 50 Hz | 21-50/44 GT 27° * | 21-50/43 GT 27° * |
|---|---|---|
| Flow rate of the pump (m3 / h) | 45 | 40 |
| tension | 3 N~ 400/230 V | 1~230 V |
| Power consumption P1 / output P2 (kW) | 2,74/2,20 | 2,12/1,60 |
| Number of nozzles (Ø 40 mm) | 1 | 1 |
| Outlet pressure at the nozzles (bar) | 1,00 | 0,90 |
| Outflow velocity in the middle | 1,00 | 1,00 |
| 2 m in front of the nozzles (m / s) | 1,70 | 1,70 |
| Massage pressure (bar) max. | 60 | 60 |
| Nozzles can be swiveled to all sides (degrees) | 24 | 26 |
| Net weight (kg) | | |

* **21-81:** Drive pump Badu 21-81
**33G:** Suction / pressure connection d 90 mm
**29°:** angled pressure port
(Indication of the angular position)

| Model | Voltage | Power output P2 | Code |
|---|---|---|---|
| BADU Jet Smart Vormontagesatz | | | 1200-V |
| BADU JET Smart Fertigmontagesatz | 400 V | 2,20 kW | 1200-SK400 |
| BADU JET Smart Fertigmontagesatz | 230 V | 1,60 kW | 1200-SK |

## Equipment

| Article | Code |
|---|---|
| Kugelhahn-Kit | 1201-W-KH |

## HUGO LAHME TAIFUN DUO Bronze

ADJUSTABLE AND VERY STRONG CURRENT!

Consisting of: recessed housing 1-piece, made of bronze, cpl. with 1 PG 9 protective tube for the pneumatic hose, 1 tube G¾ for the air hose, connection for the potential ring line.
The kit can be used both at the rear and at the front form flush to be attached.

- connection fitting with cover made of stainless steel V4A (1.4404 / 1.4571)
- Piezo switch, as well as air regulation and quantity adjustment
- the jet nozzle is directionally adjustable
- the valve has a continuous plaster compensation up to 35 mm
- **Piezo switch** with 5 m cable, protection class IP65 and control IP54
- Pump output: 63 m3 / h at 1.1 bar
- 2.6 kW bronze pump (Power consumption: 3.4 kW)

400 V, DS, 50 Hz / 5.8 A

#984-FB,
#985-4,
#985-7

## COMPLETE SYSTEMS

| Model | Suitable for | Code |
|---|---|---|
| Bronze (Gbz10)** | Liner pool (incl. Flange set) | 984-FB |
| Bronze (Gbz10)** | Prefabricated pools | 984-GB |

## SINGLE COMPONENTS

### Pre-assembly kit

| Article | Code |
|---|---|

### Flange set & transition flange

| Article | Suitable for | Code |
|---|---|---|
| Taifun/Taifun Duo Flanschsatz Bronze | Liner pools | 985-3 |
| Transition flange with bronze studs | Liner pools | 984-3B |

### Trim kit

- incl. Pump 2.6 kW made of bronze
- incl. Control box
- incl. cover

| Article | Code |
|---|---|
| Taifun Duo Final assembly set bronze | 984-1B |

### Zubehör

| Article | Code |
|---|---|
| Taifun/Taifun Duo Handle made of stainless steel V4A | 985-4 |
| Pump bracket, for wall mounting | 985-7 |

* not suitable for salt electrolysis ** max. salt concentration 6% max. 750 mg / l chloride content for V4A stainless steel / AISI 316

05

# POOL CLEANING

*Whether fully automatic or manual, the pool should be cleaned at regular intervals. Cleaning robots and manual cleaning accessories - at MIDAS you will find an extensive selection of tools for pool cleaning.*
*We supply a wide range of other products that clean the pool. The automatic pool robots, which can also clean the pool walls and water surface, are particularly convenient. Because you only swim longer in clean water.*
*You will also receive various articles on wintering to counteract frost damage.*



## OVERVIEW


| | |
|---|---|
| 118 | Automatic cleaners |
| 123 | Vacuum heads |
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| 126 | Leaf skimmer |
| 128 | Water testing, pool testing |
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| 135 | Telescope handles |

NEW

# AUTOMATIC POOL CLEANER

## RV AQ54 VORTEX™ PRO 4WD

AUTOMATIC POOL CLEANER WITH ALL-WHEEL DRIVE

**For private pools with straight walls** (max. size up to 12 x 6 m); for rectangular, oval and free pool shapes; suitable for flat surface, slightly sloping and different slopes of the pool floor.
**All wheel drive** for the perfect hold, as well as better handling of obstacles e.g. B. standing steps in GRP pools. Including lift system, large, removable and easy-to-clean filter basket, strong and constant suction thanks to cyclone technology, access to the filter system from above, including transport trolley (caddy) and swivel: Reduces twisting of the cable to a minimum.

| | |
|---|---|
| Security systems: | Stranding system, dry run protection, electronic motor protection |
| Surfaces: | for liner, prefabricated and concrete pools special accessories are required<br>for tiled, stainless steel and very smooth prefabricated pools (see catalog page 114) |
| Cleaning programs: | 1 x floor only (90 minutes)<br>1 x floor, walls and waterline (150 minutes) |

INCLUDED CADDY

Swivel: Reduces twisting of the cable to a minimum

### TECHNICAL DETAILS

| | |
|---|---|
| Number of engines | 3 |
| Control box supply voltage | 230 V/50 Hz |
| Robot dimensions (L x W x H) | 43 x 48 x 27 cm |
| Robot weight | 9,5 kg |
| Filter area | 1.180 cm², 100µ |
| Capacity filter basket | 5 L |
| Theoretical cleaning width | 24,5 cm |
| Cable length | 18 m |
| Pump delivery rate | 16 m³/h |
| Drive system | 4 wheels (All wheel drive) |
| Delivery | 18 m cable with swivel, transportcaddy, contact + brush, filter basket 100µ |

**+ Patented cyclone suction power**
**No loss of suction power**

**+ Patented lift system**
**20% less effort**

**+ Safety systems: stranding system, dry run protection, electronic protection of the motors**

| Article | Code |
|---|---|
| RV AQ54 VORTEX™ PRO 4WD | 158-14 |

# CYCLONX PRO RC4350 + RC4351

AUTOMATIC POOL CLEANER (FLOOR + WALLS)

Suitable for embedded and built with straight walls for private pools **recommended size 8 x 4 m,** (max. size up to 10 x 5 m), for flat, gentle slopes and different inclinations of the pool floors.
Cyclone technology for strong and constant suction power, with brushes, push'n go system for easy take out the filter basket by pushing a button, access filter system from above, including caddy.

| | |
|---|---|
| Safety systems: | stranding system, dry running protection, electronic motor protection |
| Surfaces: | liner and concrete pools (#158-6), prefabricated pools (#158-7), for tiles, stainless steel and very smooth prefabricated pools, special accessories are required (see catalog page 115) |
| Cleaning programs: | 1 x floor only (90 min.)<br>1 x floor, walls and waterline (90 min.) |

INCLUDING CADDY

## The control box

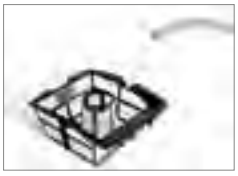
Powerful control box in modern design.

**Push`n`go:** The patented system allows easy access to the filter basket and increases the ease of cleaning

The filter basket releases with a push of a button.

The filter basket can now removed easily.

The cover removes by pressing the two buttons at the sides of the lid.



Insert the filter basket after cleaning. The basket will engage with a soft click.

## TECHNICAL DETAILS

| | |
|---|---|
| Number of motors | 2 |
| Supply voltage | 230 V / 50 Hz |
| Cleaner dimensions (LxWxH) | 41 x 42 x 28 cm |
| Robot weight | 9,0 kg |
| Filter area | 850 cm², 100µ |
| Capacity filter basket | 3,7 L |
| Theoretical cleaning width | 22 cm |
| Cable length | 15 m |
| Pump flow | 16 m³/h |
| Drive system | 2 drive chains |
| Delivery | 15 m cable, transport trolley, filter basket 100µ |

| Article | Code | kg |
|---|---|---|
| CYCLON X PRO RC4350 for liner and concrete pools | 158-6 | 18,4 |
| CYCLON X PRO RC4350 for prefabricated pools | 158-7 | 18,4 |

# ACCESSORIES: AUTOMATIC POOL CLEANER ZODIAC CYCLON X PRO RC4350

| Article | Code |
|---|---|
| Brushes (2 pieces), incl. rollers, black, for prefabricated pools | 158-6-E1 |
| Brushes (2 pcs.), incl. rollers, PVA, for tile and stainless steel pools, from year of construction 2016 – requires software customizations – | 158-6-E2 |
| Brushes (2 pcs.), incl. rollers, for liner and concrete pools, standard | 158-6-E3 |
| Filter basket, very fine (60µ) individually | 158-6-E4 |
| Filter basket, fine (100 µ/standard) individually | 158-6-E5 |
| Filter basket, coarse (200 µ) individually | 158-6-E6 |
| Caterpillar band (2 pieces) | 158-6-E7 |
| Control box type 2c | 158-6-E8 |
| Tarnsport caddy | 158-6-E9 |
| Cover, suitable for Vortex and CyclonX cleaners | 158-6-E91 |

#158-6-E4
#158-6-E5
#158-6-E6

#158-6-E9

#158-6-E1

#158-6-E2

#158-6-E3

#158-6-E8

#158-6-E7

#158-6-E91

# SHARKVAC XL PILOT

POWERFUL AND EFFICIENT AUTOMATIC POOL CLEANER

Suitable for built-in pools **(maximum size up to 12 x 6 m)**, for any kind of floor with straight walls, for flat, gentle slopes and different inclinations of the pelvic floors and diamond point – also for composite floors.
Easy to use: no bag, no hose. Easy access from the top to the large capacity filter block, the cleaning robot no longer needs to be turned over, recognition and recirculation as soon as the robot leaves the water, for descending pools, **including transport caddy.**

| | |
|---|---|
| Surfaces: | useable for all types of surfaces: tiles, liner, concrete and prefabricated pools |
| Cleaning and brushing programs: | cleans and sucks the floor, the walls and the waterline of the pool inside for 3 hours, program selection "floor" or "floor and wall" via a selector switch, 2 working cycles selectable:<br>– only ground (120 minutes)<br>– floor and wall (180 minutes) |



## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Engine block | 24 V |
| Power supply | 230 V / 50 Hz |
| Cleaner dimensions (LxBxH) | 41 x 41 x 28 cm |
| Weight | 12,35 kg |
| Filter area | 7.420 $cm^2$ |
| Cable length | 17 m |
| Driving speed | 16,76 meter per minute |
| Suction | 17 $m^3/h$ |
| Autonomous calculator | yes |

#158-15-E10

Transport trolley (caddy) included; with this, the floor cleaner is transported quickly and easily and stowed away again.

Access to the filter plates from above.
Easy maintenance.
The filter plate can be easily removed, cleaned and reinserted.

#158-15-E1
#158-15-E2

Optional filter for cleaning at the beginning of the season for larger impurities.

| Article | Code | kg |
|---|---|---|
| SharkVac XL Pilot | 158-13 | 12,35 |

## EQUIPMENT: SHARKVAC XL PILOT

| Article | Code |
|---|---|
| Filter cartridge refill set | 158-15-E1 |
| Filter cartridge refill set - spring | 158-15-E2 |
| Replacement brush for all surfaces, except tiles | 158-15-E3 |
| Replacement brush especially for tiles | 158-15-E4 |
| Complete filter unit (without filter cartridges) | 158-15-E9 |

#158-15-E1
#158-15-E2

#158-15-E3

#158-15-E4

#158-15-E9

# VACUUM HEADS

## VENTURI VACUUM CLEANER

Material: ABS plastic, with three-part aluminum handle, 135 cm, small simple vacuum cleaner with hose connection, color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| Vacuum cleaner | 24 | 109 | 0,5 |

#109

## MIDA.Sweep GROUND CLEANER

Material: ABS plastic, flexible with 8 wheels, width: 33 cm, with 2 bottom and 2 rows of brushes on the side, connection 38 mm, single packing: in plastic bags, color: blue / white

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Sweep | 12 | 110 | 0,83 |

#110

## MIDA.Clean GROUND CLEANER

Material: ABS plastic, width: 29 cm, 8 brushes, with brushes on bottom, 2 rows with brushes on the side, heavy version, connection 32/38 mm, swivel adapter, single packaging: in plastic bags, color: blue / white

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Clean | 12 | 113-N | 0,87 |

#113-N

## MIDA.Vac GROUND CLEANER

Material: ABS plastic, width: 29 cm, 8 brushes, with brushes on bottom, without side brushes, connection 32/38 mm, swivel adapter, single packaging: in plastic bags, color: blue / white

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Vac | 12 | 112-N | 0,82 |

#112-N

# THERMOMETER

#062-N

## MIDA.Therm THERMOMETER

Material: ABS plastic, for depth measurement (30 cm),
with swimming ring, Celsius & Fahrenheit scale, hi-tech welding,
in single box, with fastening cord, single packing: in carton
color: blue,
optional: individual name printing from 1000 pieces possible

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Therm | 20 | 062-N | 0,55 |

#068

## MIDA.Look THERMOMETER

Material: ABS plastic, hard-wearing model, temperature scale in Celsius and Fahrenheit, with floating head, length: 18.5 cm,
with fastening cord,
single packing: in carton,
color: white

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Look | 28 | 068 | 0,06 |

#069-A

## MIDA.Grade THERMOMETER

Material: ABS plastic, length: 17 cm, with ladle,
with fastening cord,
single packaging: in plastic bags,
color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Grade | 20 | 069-A | 0,08 |

#066

## ECONOMY THERMOMETER

Material: ABS plastic, length: 17 cm, temperature scale in Celsius and fahrenheit, with fastening cord,
color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| Economy Thermometer | 10 | 066 | 0,03 |

# WALL BRUSHES

## MIDA.Brush BASKET BRUSH CURVED

Material: ABS plastic, width: 45 cm,
single packaging: in plastic bags,
color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Brush with white bristles | 24 | 145-A | 0,30 |

#145-A

Material: aluminum or aluminum reinforcement,
complete aluminum frame, width: 45 cm,
single packaging: in plastic bags,
color: aluminum / blue with white bristles

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Brush aluminum | 24 | 145-ALU | 0,34 |

#145-ALU

## MIDA.Algae ALGAE BRUSH

Material: ABS plastic, width: 26 cm,
with stainless steel or plastic bristles,
single packaging: in plastic bags,
color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Algae with stainless steel bristles | 24 | 146-C | 0,23 |

#146-C

## BRUSH FOR CORNER

Material: ABS plastic, with adjustable vacuum ring and hose connection,
single packaging: plastic bags
color: blue / white

| Article | Packing | Code | kg |
|---|---|---|---|
| Brush for corner | 24 | 146 | 0,15 |

#146

## CLEANING SPONGE

Material: ABS plastic, ideal for removing algae and other soft residues,
single packaging: in plastic bags,
color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| Cleaning sponge | 60 | 108 | 0,06 |

#108

# LEAF SKIMMER

#142

## MIDA.Catch LEAF SKIMMER

Material: ABS plastic, with white deep net,
width: 40 cm, length: 27 cm,
color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| Leaf skimmer MIDA.catch with hard-shell packing | 15 | 142 | 0,35 |

#141-ALU

## MIDA.Rake LEAF SKIMMER

Material: ABS plastic, with unbreakable aluminum frame and aluminum handle, with white deep net, width: 44 cm,
length: 20 cm, single packing: plastic bags (# 141),
hard-shell packaging (# 141-ALU),
color: silver / blue

| Article | Packing | Code | kg |
|---|---|---|---|
| Leaf skimmer MIDA.Rake | 24 | 141 | 0,4 |
| Leaf skimmer MIDA.Rake blister | 14 | 141-ALU | 0,2 |

#140

## MIDA.Skim LEAF SKIMMER

Material: ABS plastic, with white flat net,
width: 43 cm, length: 27 cm,
single packaging: in plastic bags,
color: blue

| Article | Packing | Code | kg |
|---|---|---|---|
| Leaf skimmer MIDA.Skim | 20 | 140 | 0,21 |

## MIDA.Leaf LEAF SKIMMER

Material: break-resistant aluminum frame and aluminum handle / ABS plastic,
with white flat net, width: 31 cm, length: 35 cm,
single packaging: in plastic bags,
color: silver / blue

| Article | Packing | Code | kg |
|---|---|---|---|
| Leaf skimmer MIDA.Leaf | 24 | 143 | 0,24 |

#143

## MIDA.Eco LEAF SKIMMER

Single packaging: in plastic bags,
color: silver / blue

| Article | Dimensions | Packing | Code | kg |
|---|---|---|---|---|
| Material frame and handle: ABS plastic | Width: 29 cm Length: 43 cm | 24 | 139-A | 0,16 |

#139-A

## MIDA.Vario LEAF SKIMMER

Material: ABS plastic frame / aluminum handle,
with blue hard-wearing net, separately packaging,
width: 45 cm, length: 20 cm,
colour blue

| Article | Dimensions | Packing | Code | kg |
|---|---|---|---|---|
| Ground skimmer deep, with hard shell plastic frame | Width: 45 cm Length: 20 cm | 12 | 141VK | 0,50 |

#141VK

## MIDA.Vario LEAF SKIMMER

Material: ABS plastic frame / aluminum handle,
with blue hard-wearing net, separately packaging,
width: 35.5 cm, length: 32.5 cm,
colour blue

| Article | Dimensions | Packing | Code | kg |
|---|---|---|---|---|
| Leaf skimmer deep, with hard shell plastic frame | Width: 35,5 cm Length: 32,5 cm | 12 | 143VK | 0,50 |

#143VK

# WATER TESTING, POOL TESTING

## POOL LAB® 1.0 PHOTOMETER

The new PoolLab® 1.0 is the perfect solution for the professional water analysis of private pools and spas.

- waterproof
- equipped with Bluetooth
- photometer is supported by free software and app
- the device displays dosing recommendations
- degree of protection IP68

Made in Germany

#060

Measurement parameters: pH 6.50 - 8.40, Chlorine (free/bound/total): 0.00 - 6.00 mg / l (ppm) or bromine**,
Alkalinity (acidity, carbonate hardness): - 300 mg / l (ppm) CaCO3,
Cyanuric acid (stabilizer): 0 - 160 mg / l (ppm),
Active oxygen (MPS): 0.0 - 30.0 mg / l(ppm) *,
bromine: 0.0 - 13.5 mg / l (ppm) **,
Chlorine dioxide: 0.0 - 11.4 mg / l (ppm) **,
ozone: 0.00 - 4.00 mg / l (ppm) **,
Hydrogen peroxide (LR): 0.00 - 2.9 mg / l (ppm) *,
Hydrogen peroxide (HR): 0-200 mg / l (ppm) *,
Calcium Hardness: 0 - 500 mg / l (ppm)
CaCO3 *, Total hardness: 0 - 500 mg / l (ppm) CaCO3 *

#060-E2

#060-E3

#060-E4

#060-E5

#060-E6

Kit contents: 1 x PoolLab® 1.0 with Bluetooth 4.0,
IP67 water resistant,
1 x transparent plastic box, 1 x light cap,
1 x mixing rod made of plastic,
3 x AAA batteries, manual/instructions,
free PoolLab® software*** and App***,
free PoolLab® cloud service

#060-E7, #060-E8

Reagents: 20 tablets phenol red photometer,
20 tablets DPD no. 1 photometer,
10 tablets DPD no. 3 photometer,
10 tablets alkalinity-M photometer,
10 tablets CYA test photometer

je 5 Blister mit je 10 Tabletten

| Article | Packing | Code |
|---|---|---|
| Pool LAB® 1.0 Photometer | 1 | 060 |

| Replacement Tablets | Packing | Code |
|---|---|---|
| Complete set, consisting of: 20 x DPD no. 1, 10 x DPD No. 3, 20 x phenol red (pH), 10 x alkalinity, 10 x cyanuric acid | 1 | 060-E1 |
| DPD No. 1, 50 pieces | 1 | 060-E2 |
| DPD No. 3, 50 pieces | 1 | 060-E3 |
| Phenol red (pH), 50 pieces | 1 | 060-E4 |
| Alkalinity, 50 pieces | 1 | 060-E5 |
| Cyanuric acid, 50 pieces | 1 | 060-E6 |
| Total hardness 1 reagents 20 ml for pool LAB 1.0 photometer, 50 pieces | 1 | 060-E7 |
| Total hardness 2 reagents 10 ml for pool LAB 1.0 photometer, 50 pieces | 1 | 060-E8 |

* Requires tablets that are not included in the basic kit.
** Requires Glycine tablets (not included) if chlorine is present in the sample water.
*** Download

# ELECTRONIC METER

Electronic meters need no additional reagents to measure professionally and accurately different water parameters. The measurement result is displayed on the display within seconds after the tester has been immersed in the measuring water.
Calibration private pools: once a week.

057

059



| Product | Measuring range | Resolution | Accuracy | Calibration | Aut. Temp. Compens. |
|---|---|---|---|---|---|
| Electronic pH Meter | pH (0.0 - 14.0) | 0.1 pH | +/- 0.1 pH | 1 point, manuell | – |
| Electronic TDS Meter (total dissolved salts) | TDS (0 - 10000 mg/l) (0.00 - 10.00 ppt) | 0.01 ppt | +/- 2% FS | 1 point, manuell | automatically 0 - 50°C with ß=2%/°C |

| Article | Packing | Code |
|---|---|---|
| Electronic pH Meter | 4 | 057 |
| Electronic TDS Meter (total dissolved salts) | 4 | 059 |

#102030-E1

#059-E1

| Buffer solutions | Packing | Code |
|---|---|---|
| Buffer solution pH 7, 50 ml | 4 | 102030-E1 |
| Buffer solution TSD 6.44 ppt, 20 ml | 4 | 059-E1 |

# MULTI POOL TESTER

5 IN 1 MULTI-POOL TESTER

The basic requirement for healthy bathing and swimming is a thorough and modern water treatment and analysis, also in the private sector.
The different parameters require different test methods.

**Scope of delivery:**

- 1 pH chlorine pool tester
- 1 stir bar, length 10 cm
- 1 cuvette test packaging unit (Cyanuric acid)
- 1 brush
- 20 DPD No.1 RAPID tablets
- 20 DPD No.3 RAPID tablets
- 20 PHENOLRED RAPID tablets
- 10 CyA-TEST tablets
- 10 ALK-TEST tablets
- 10 CAL-TEST tablets
- 2 cuvette tests (100 ml for 20 - 200 mg / l and 30 ml for 80 - 800 mg / l CaCO3)
- 1 instruction manual

#052

**Measuring ranges:**

- free, active chlorine
- total chlorine (0.1 - 3 mg / l)
- pH value (6.8 - 8.2)
- cyanuric acid / stabilizer (20 - 200 mg / l)
- alkalinity-M
- carbonate hardness (20 - 800 mg / l CaCO)
- calcium hardness (20 - 800 mg / l CaCO)

#053

#054

#054-1

#052-1

| Article | Code |
|---|---|
| Multi pool tester 5 in 1 | 052 |
| Compact pool test kit | 053 |
| Active oxygen pH, in blister 2 | 054 |
| Active oxygen refill pack - pH * | 054-1 |
| Refill pack combi pack for Multi pool tester 5 in 1 | 052-1 |

## MIDA.SET / PH & CHLORINE TESTER

Test set including 20 tablets (rapidly dissolving) for chlorine and pH probe, the tablets are available separately.

- measuring range pH: 6.8 - 8.2
- measuring range Cl 0.2 - 2.0 ppm

#055

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Set / pH & Chlorine Tester (25 pieces) | 25 | 055 | 0,06 |
| 250 tablets DPD 1 (Cl) | 250 | 055-3 | 0,0028 |
| Tablets Phenol RED (pH) | 250 | 055-4 | 0,0028 |
| Replacement pack Tabl. DPD 3 | 250 | 055-5 | 0,09 |
| Replacement pack for Oxygen (DPD 4) | 250 | 055-6 | 0,09 |

#055-3 und #055-4

## MIDA.TEST

Test set for chlorine and pH with 15 ml-bottles, delivery in a blue case. Measuring range pH: 6.8 - 8.2, Measuring range Cl: 0.2 - 1.0 ppm

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Test | 25 | 050 | 0,076 |
| Replacement bottle Cl 15 ml | 25 | 050-1 | 0,024 |
| Replacement bottle pH 15 ml | 25 | 050-2 | 0,024 |

#050



## TEST STRIP POOL TESTER

**Packed in aluminum blisters – 2.5 years durability**
Long shelf life, can still be used in the next season
Test strips give you a good indication of your water values.
The TSL-600 test strip (capillary method) uses silver nitrate as a reagent and thus reacts directly with the salt to be measured.
Unlike TDS meters, which determine the salt content empirically via the conductivity.

**Product description:** Test strips for the measurement of salt (NaCl)
5 of the 20 strips per can are blistered in aluminum

#TSL-600

Number of test strips: 20 pieces (= 1 packaging unit)

- Measuring range NaCl: 0 - 7000 mg / l

The 3-in-1 test strips measure not only pH value but also the free chlorine and the bromine and alkalinity values.
10 of the 50 strips per can are blistered in aluminum
Number of test strips: 50 pieces (= 1 packaging unit)

- Measuring ranges: pH 6.8 - 8.2
  Cl (f) 0.0 - 5.0
  Br 0.0-11.0
  Alk 0-240

#TSL-100

| Article | Packing | Code |
|---|---|---|
| Test strips for the measurement of salt (NaCl) | 1 | TSL-600 |
| 3-in-1 test strips 3-in-1 test strips pH, Cl, Br, Alk | 1 | TSL100 |

# FLOATING DISPENSER

## MIDA.Float FLOATING DISPENSER

Dosing floating dispenser with adjusting ring, material: ABS plastic, large version,
Transparent lid, carries up to 1 kg of tablets, diameter: 17 cm, opening: 9.5 cm
single packaging: in plastic bags,
color: blue white

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Float | 6 | 045-N | 0,36 |

## MIDA.Ora FLOATING DISPENSER

Dosing floating dispenser with adjusting ring, material: ABS plastic,
carries up to 1 kg of tablets, diameter: 17 cm, opening: 9.5 cm
single packaging: in plastic bags,
color: blue / white

| Article | Packing | Code | kg |
|---|---|---|---|
| MIDA.Ora | 12 | 047-A | 0,23 |

## MIDA.Mini FLOATING DISPENSER

Dosing floating dispenser with adjusting ring, material: ABS plastic,
carries up to 1 kg of tablets, diameter: 13 cm, opening: 6 cm,
single packaging: in plastic bags,
color: blue / white

| Article | Packing | Code | kg |
|---|---|---|---|
| Mini Floating Dispenser | 24 | 048-M | 0,10 |

# HOSES

Made in Germany

## LDPE-HOSE

Material: Polyethylene, long-term resistant to salt water, chlorine, UV radiation, individually divisible by molded sleeves, suitable for installation in existing filter circuits. 50 m roll with molded sleeves every 0.5 m, flexible
color: black
application: floor vacuum cleaner, floor suction brush, sand filter units, pumps, swimming pool absorbers, skimmers

| Article | Ø in mm | Packing | Code | kg |
|---|---|---|---|---|
| LDPE-Hose | 38 | 8 rolls per pallet | 170 | 11,7 |



## SWIMMING POOL HOSE

Made in Germany

Material: Polyethylene, high stability and flexibility, very easy to lay, easily dividable by molded sleeves, puncture-resistant, high chemical resistance, flexible.
roll: 100 m,
color: blue,
application: floor vacuum, floor suction brushes

| Article | Ø in mm | Packing | sleeve | Code | kg |
|---|---|---|---|---|---|
| Swimming Pool Hose | 38 | 5 rolls per pallet | 1,5 m | 169M | 20,0 |
| Swimming Pool Hose | 32 | 5 rolls per pallet | 1,1 m | 168 | 15,0 |

Made in Germany

## SWIMMING POOL HOSE INCLUDED NOZZLES

Material: polyethylene, swimming pool hose with white sleeves on both ends, flexible, single packing: in carton, color: blue/ white

| Article | Ø in mm | length (m) | Packing | Code | kg |
|---|---|---|---|---|---|
| Swimming Pool Hose | 38 | 7,5 | 1 roll | 8576 | 2,00 |
| Swimming Pool Hose | 38 | 9 | 1 roll | 8577 | 2,50 |
| Swimming Pool Hose | 38 | 12 | 1 roll | 8575 | 3,40 |
| Swimming Pool Hose | 38 | 15 | 1 roll | 8578 | 4,20 |
| Swimming Pool Hose | 38 | 30 | 1 roll | 8579 | 8,50 |

#6524

## PVC NOZZLES FOR SWIMMING POOL HOSE

material: ABS plastic, color: blue

| Article | Packing | Code | kg | |
|---|---|---|---|---|
| Hose nozzle for Swimming Pool, Ø 38 mm | 1 | 6524 | 0,05 | 4,79 |

#02300

## Equipment

| Article | Size | Packing | Code | kg |
|---|---|---|---|---|
| Hose connection | Ø38 | 1 | 02300 | 0,05 |
| Hose connection | 32 mm - 38 mm | 1 | 02301 | 0,05 |
| Hose connection | Ø 32-38 mm -1 ½" IT | 1 | 6571 | 0,05 |

#02301

#6571

Customer photo: Company Naujok-Pool GmbH

# TELESCOPE HANDLES

## TELESCOPE HANDLES
2 -PIECE

Aluminium double tube anodized, with excentric, 2 sleeves, wall thickness 1.1 mm, color: silver/beige

| Article | length (m) | Packing | Code | kg |
|---|---|---|---|---|
| Telescope handle | 1,80 - 3,60 | 20 | 210-TM | 1,50 |
| Telescope handle | 2,40 - 4,80 | 20 | 220-TM | 1,50 |

## TELESCOPE HANDLES
3 -PIECE

Aluminium double tube anodized, with excentric , 2 sleeves , wall thickness 0.8 mm, color: silver/beige

| Article | length (m) | Packing | Code | kg |
|---|---|---|---|---|
| Telescope handle | 1,20 - 3,60 | 20 | 3120-TS | 0,76 |
| Telescope handle | 1,50 - 4,50 | 20 | 3150-TS | 0,73 |

Customer photo: Company Naujok-Pool GmbH

# 06

# SWIMMING POOL EQUIPMENT

*When it comes to swimming pool equipment, you will find everything the swimming pool heart desires. Insulating polystyrene stones for pool construction, swimming pool liners in various colors, protective and heat-supporting pool covers and practical entry ladders.*
*Our gush showers provide that special something - with the right water attractions, you can upgrade any pool and create a very special atmosphere. From us you get products with a noble design and high quality made of stainless steel or acrylic glass. A solar shower should not be missing from your pool. A refreshing shower after soaking up energy while swimming is good for the skin.*

## OVERVIEW


| | |
|---|---|
| 138 | Swimming pool liner |
| 141 | Equipment |
| 143 | Grating |
| 145 | Pool cover |
| 149 | Drives for roller shutter covers, MIDA.Roll |
| 153 | Safety cover |
| 155 | Air pillow film |
| 156 | Ladders (V2A/AISI 304) |
| 158 | Water attraction |

# SWIMMING POOL LINER

Pool linings determine the look of the pool and the area around it. The best way to get a long term waterproof and easy to clean swimming pool water is to apply a reinfoced swimming pool liner.
We have a variety of color spectrums and combinations for you available. Color, shape, material, surface feel and appearance of the pool liner significantly affect the overall look and decide about the comfort factor.

## REINFORCED SWIMMING POOL LINER BASIC LINE - CLASSIC

Reinforced swimming pool liner are the perfect material for the lining of fixed pools of all shapes and sizes in the indoor and outdoor area. Extremely tear-resistant, durable and resistant to weathering, cold, fungi and bacteria.
Suitable for any surface.

## AVAILABLE LINER COLORS - UNICOLOR

In case of print technical reasons color deviations are possible.

WATERTIGHTNESS
15 YEARS
Warranty

Dimensions
Thickness: 1.5 mm
Width: 1.65 / 2.00 m
Roll length: 25m Packing: 8 per pallet
Max. water temperature: 32°

### ROLL-LENGTH 25m x 1.65 m (width)

| Color | Code |
|---|---|
| White (1)* | 20.045 |
| Adriatic Blue (2)* | 20.061 |
| Light Blue (3)* | 20.403 |
| Turquoise (9)* | 20.057 |
| Sand (4)* | 20.405 |
| Light Grey (5)* | 20.073 |
| Dark Grey (6)* | 20.529 |
| Black (7)* | 20.579 |

### ROLL-LENGTH 25m x 2.00 m (width)

| Color | Code |
|---|---|
| White (1)* | 20.047 |
| Adriatic Blue (2)* | 20.063 |
| Light Blue (3)* | 20.404 |
| Turquoise (9)* | 20.058 |
| Sand (4)* | 20.406 |
| Light Grey (5)* | 20.072 |
| Dark Grey (6)* | 20.628 |

* Suitable liquid film can be found on the catalog page 139 assigned by number.

## REINFORCED ANTI SLIP LINER

Anti slip protection for stairs, children pools and walk-through pools. Free of heavy metals and resistant to commercially available swimming pool maintenance and water cleaning agents. Resistant to aging and rot, stabilized against UV radiation, weldable, cold-resistant and antimicrobial.

**ROLL-SIZE 10 m (length) x 1,65 m (width)** – (15 % expences for cutting for neaded length).

**DIMENSIONS**
Thickness: 1,5 mm
Width: 1,65 m
Roll length: 10 m
Packing unit: 15 rolls/pallet

White

Adriatic Blue

Light Blue

Turquoise


Light Sand

Light Grey

Dark Grey

Black

| Color | Code | kg |
|---|---|---|
| White | 20.765 | 34,32 |
| Adriatic blue | 20.772 | 34,32 |
| Light blue | 20.768 | 34,32 |
| Turquoise | 20.769 | 34,32 |
| Sand | 20.766 | 34,32 |
| Grey | 20.767 | 34,32 |
| Anthracite | 20.771 | 34,32 |
| Black | 20.770 | 34,32 |

Length cut possible

## LIQUID PVC

Seam sealer for fabric reinforced swimming pool linings. Package size: 950 ml (can). Also available separately.

| Color | Packing | Code | kg |
|---|---|---|---|
| White (1) | 6 | 21.054 | 0,95 |
| Navy blue | 6 | 21.047 | 0,95 |
| Adriatic blue (2) | 6 | 21.048 | 0,95 |
| Light blue (3) | 6 | 21.053 | 0,95 |
| Sand (4) | 6 | 21.056 | 0,95 |
| Light Grey (5) | 6 | 21.046 | 0,95 |
| Dark Grey (6) | 6 | 21.154 | 0,95 |
| Black (7) | 6 | 21.190 | 0,95 |
| Transparent (8) | 6 | 21.055 | 0,95 |
| Turquoise (9) | 6 | 21.049 | 0,95 |

**PACKING**
Packing unit: 30/pallet
Exterior angle, strips,
Interior angle:
Packing unit: 10 / Pk

## PVC COATED METALS / PROFILES

For the assembling of fabric reinforced swimming pool linings,
thickness of liner composite panel: 1,2 mm

| Article | Color | Dimensions (mm) | Code | kg |
|---|---|---|---|---|
| Panel | blue | 2000 x 1000 | 21.063 | 10,00 |
| External angle | blue | 70 x 30 x 2000 | 21.068 | 1,00 |
| Internal angle | blue | 70 x 30 x 2000 | 21.067 | 1,00 |
| Strip | blue | 70 x 2000 | 21.071 | 1,00 |

**DIMENSIONS**
Thickness: 2 mm (300 g/m²)
Thickness: 4 mm (500 g/m²)
Width: 1,50 / 2,00 m
Roll length: 50 m

## SEPARATION AND PROTECTION FLEECE / GEO TEXTILE

Separation and protection fleece available in 300 g/m² and 500 g/m², thermally solidified polyester fibers, drilling and screw-proof, rot proof, vapor permeable, film and bitumen compatible, color: white. Also available separately. BZ-DIN 4102.

### SIZE: 1,50 METER – 75 m²

| Article | Quality | Packing | Code | kg |
|---|---|---|---|---|
| Fleece | 300g/m² | 6 rolls/pallet | 20.500 | 22,5 |

### SIZE: 2,00 METER – 100 m²

| Article | Quality | Packing | Code | kg |
|---|---|---|---|---|
| Fleece | 300g/m² | 6 rolls/pallet | 20.501 | 30,00 |
| Fleece | 500g/m² | 5 rolls/pallet | 20.502 | 50,00 |

# EQUIPMENT

## ACCESSORIES FOR PROFESSIONAL INSTALLATION

Indoor and outdoor pools of any shape and size can be lined with swimming pool lanes. This applies to new buildings as well as to the renovation of existing swimming pools with substrates made of concrete, masonry, wood, steel, aluminum, polyester and slope-fixed earth pools up to 60 ° inclination.
The right installation accessories are a must for the pool lining to be carried out professionally.
**Note:** Fleece Adhesive Pro, 5 kg bucket # 8045 is not suitable for the pool wall

#21.000

| Article | Packing | Code |
|---|---|---|
| Spray bottle, 500 ml | 5 | 21.000 |
| Drive fasteners short, 20,3 mm | 12 Pack à 200 Stk. | 21.381 |
| Drive fasteners long, 35 mm | 12 Pack à 100 Stück | 21.382 |
| Solvent welding agent THF, 1,000 ml | 6 | 21.039 |
| Fleece adhesive Pro, 5 kg Eimer | 1 | 8045 |
| Spray adhesive for pool fleece, 500 ml | 12 | 8046 |
| Styrofoam spray adhesive for pool fleece, 500 ml | 12 | 8054 |

#21.382

#21.381

#8045

#8046

#8054

#21.039

NEW

## TOOL FOR WELDING

| Article | Width (mm) | Code |
|---|---|---|
| Pressure roller with ball bearing, silicone | 43 | 06.013 |
| Pressure roller with ball bearing, brass | 6 | 06.016 |
| Kehlfix for waterproofing membranes | 55 | 06.019 |
| Weld seam tester | - | 06.018 |
| Foil scissors with ergonomic handle and special serrated edge | - | 06.021 |

#06.021

#06.013

#06.016

#06.019

#06.018

# HOT AIR HAND TOOL SUITABLE FOR CONSTRUCTION SITES

NEW

## Triac AT (Advanced Technologie)

Intelligent hot air hand tool suitable for construction sites for welding swimming pool liner with controlled electronics and process safety.

- for plug-in nozzles
- with EU plug
- including case

**Energy saving functionby** ECO Motion Sensor (configurable). Recognizes, when the device is not in use and thus saves up to 40% of the energy with additional **noise level reduction.**

#06.001

| Article | Voltage | Power | Temperature | Code |
|---|---|---|---|---|
| Triac AT | 230 V/50Hz | 1600 W | 45-620°C | 06.001 |

Mit LED Anzeige

Mit intelligentem
ECO Motion Sensor

NEW

## Triac ST (Standard Technologie)

Handy, reliable and versatile hot air hand tool for welding swimming pool liners.

- for plug-in nozzles
- with EU plug
- including case

#06.002

| Article | Voltage | Power | Temperature | Code |
|---|---|---|---|---|
| Triac ST | 230 V/50Hz | 1600 W | 40-700°C | 06.002 |

NEW

## Accessories for Triac AT and Triac ST

#06.007

#06.008

#06.010

| Article | Code |
|---|---|
| Angled nozzle 20 x 2 mm 75° | 06.007 |
| Angled nozzle 20 x 2 mm 60° | 06.008 |
| Wide slot nozzle 20 x 2 mm 15° | 06.010 |

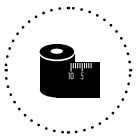
Further accessories available on request.

# GRATING

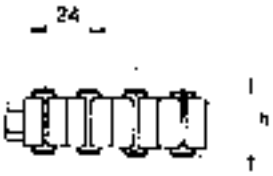
## GRATING FOR ROUND MODEL

Made of polypropylen, connection via click system, approx. 45 pieces per meter

| Heigth x width mm | Packing | Code | kg |
|---|---|---|---|
| 22 x 195 | 470 | 350 | 0,034 |
| 22 x 245 | 320 | 351 | 0,043 |
| 22 x 295 | 300 | 352 | 0,060 |
| 22 x 335 | 250 | 353 | 0,068 |
| 35 x 195 | 450 | 354 | 0,037 |
| 35 x 245 | 300 | 355 | 0,047 |
| 35 x 295 | 290 | 356 | 0,067 |
| 35 x 335 | 250 | 357 | 0,072 |



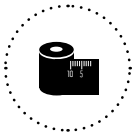
| Art. / Code | h (mm) | L (mm) | L1 (mm) | R (mm) | r (mm) |
|---|---|---|---|---|---|
| # 350 | 22 | 200 | 195 | 445 | 250 |
| # 351 | 22 | 250 | 245 | 545 | 300 |
| # 352 | 22 | 300 | 295 | 645 | 350 |
| # 353 | 22 | 340 | 335 | 785 | 450 |
| # 354 | 35 | 200 | 195 | 445 | 250 |
| # 355 | 35 | 250 | 245 | 545 | 300 |
| # 356 | 35 | 300 | 295 | 645 | 350 |
| # 357 | 35 | 340 | 335 | 785 | 450 |



## GRATING

Made of polypropylen, the grating is chained with cable, approx. 49 pieces per meter

| Heigth x width mm | Packing | Code | kg |
|---|---|---|---|
| 22 x 195 | 340 | 358 | 0,035 |
| 22 x 245 | 305 | 359 | 0,043 |



| Art. / Code | h (mm) | L (mm) | L1 (mm) |
|---|---|---|---|
| # 358 | 22 | 200 | 195 |
| # 359 | 22 | 200 | 245 |

## FASTENING CABLE

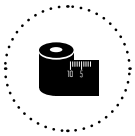
Stainless steel V4A/AISI 316 (14571), plastic cover ø 2,5 mm, to chain the grating, please specify the wanted cable length, pricing per meter

| Article | Packing | Code | kg |
|---|---|---|---|
| Fastening cable stainless steel | 1 | 360 | 21,0 |
| Endpiece for cable fixing | 1 | 361 | 1,50 |

## GRATING PLATE

Made of polypropylen, the plates are connected with a clip-system. 5 pieces = 0,975 m

| Heigth x width mm | Packing | Code | kg |
|---|---|---|---|
| 22 x 245 | 52 | 363 | 0,438 |
| 22 x 295 | 45 | 364 | 0,513 |
| 22 x 335 | 38 | 365 | 0,579 |

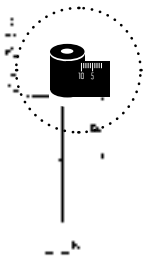


| Art. / Code | h (mm) | L (mm) | L1 (mm) |
|---|---|---|---|
| # 363 | 22 | 250 | 245 |
| # 364 | 22 | 300 | 295 |
| # 365 | 22 | 340 | 335 |

## CORNER TILE 90°

Made of polypropylen

| Heigth x width mm | Packing | Code | kg |
|---|---|---|---|
| 22 x 195 | 4 | 370 | 0,70 |
| 22 x 245 | 4 | 371 | 0,90 |
| 22 x 295 | 4 | 372 | 1,20 |
| 22 x 335 | 4 | 373 | 1,43 |
| | | | |
| 35 x 195 | 4 | 374 | 0,80 |
| 35 x 245 | 4 | 375 | 1,05 |
| 35 x 295 | 4 | 376 | 1,33 |
| 35 x 335 | 4 | 378 | 1,55 |



| Art. / Code | A (mm) | H (mm) | L (mm) | P (mm) |
|---|---|---|---|---|
| # 370 | 245 | 22 | 195 | 127 |
| # 371 | 295 | 22 | 245 | 127 |
| # 372 | 345 | 22 | 295 | 127 |
| # 373 | 385 | 22 | 335 | 127 |
| # 374 | 245 | 35 | 195 | - |
| # 375 | 295 | 35 | 245 | - |
| # 376 | 345 | 35 | 295 | - |
| # 378 | 385 | 35 | 335 | - |

## GUIDE RAIL

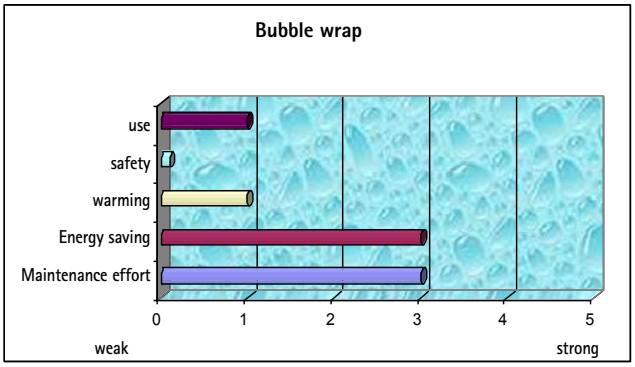
FOR GRATINGS AND RAILINGS

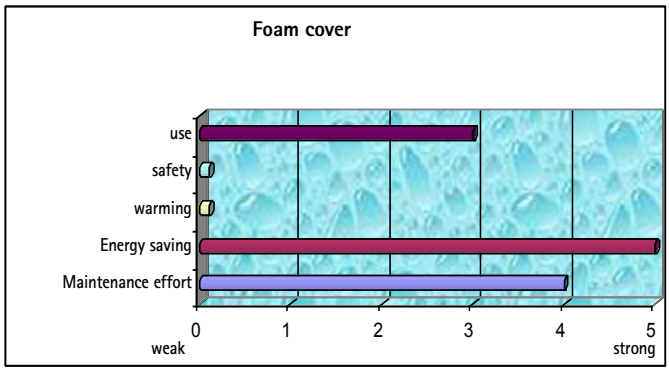
Made of polypropylen, for all fitting over flow channels, useful double-sided. For gratings with heigth of 22, 24 & 35 mm, fixed length 2,0 m. Inside dimension 24 x 37 mm.

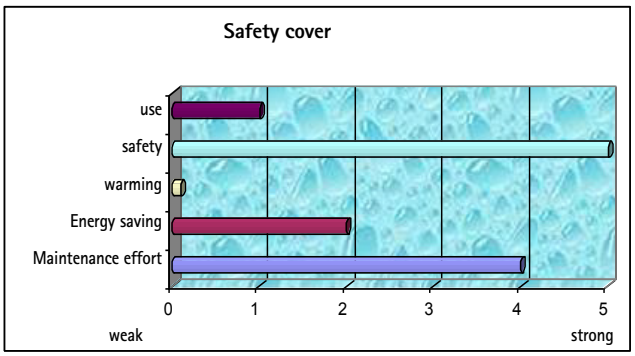
| Article | Packing | Code | kg |
|---|---|---|---|
| Guide Rail | 25 | 379 | 0,56 |

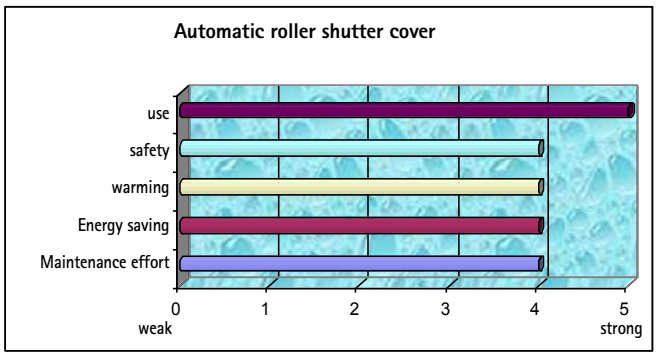
# POOL COVER

## ROLLER SHUTTER COVER




The (Re)Cover range consists of PVC and polycarbonate tri-extrusion slats in various colors, solar and anti-algae slats. All slats are developed in such a way that they can be used in all situations: above-ground roller shutter systems, installed in the water, for new buildings and renovations.
It is possible to replace individual slats as well as the entire cover and to replace existing pools with (Re)Cover slats. Thanks to their double hook connection, the slats can be rolled up on both sides and can therefore be used in any situation.
In addition, thanks to their click and slide system, they are easy to assemble and disassemble.
The slats have an opening in the double hook connection,to promote water circulation and reduce possible algae formation.
The polycarbonate fins in Mast(eR) and Clean(eR) are manufactured in tri-extrusion.
With the TRI extrusion protection, an additional layer is extruded onto the slats.
In combination with a UV absorber, the polycarbonate components gain one higher impact resistance and improved UV protection, which is crucial for hail resistance and a longer service life.

## HAIL PROTECTION AND HAIL CLASSES

The (Re)Cover polycarbonate slats are very hail-proof.
The hail register certifies 2 aspects: functionality and appearance.
Functionality is tested for mechanics and watertightness.
The hail protection is divided from HW1 to HW5, where HW5 is the most resistant.
The Mast(eR) polycarbonate slat fulfills this.
HW5 means that the slats are not damaged in their function,
when using hailstones of 50 mm in diameter at a speed
of 110 km/h.

## TRI-EXTRUSION POLYCARBONATE WITH DOUBLE UV PROTECTION: CLEAN (ER) | MASTER)

- UV absorber in the starting material
- additional layer of UV absorbers on the lamella surface
- double hook connection
- hail resistance Mast(eR): functionality HW5
- hail resistance Cleaner(eR): functionality HW4
- guarantee: 3 years HW3
- K value: 2.74 W / m²K
- installation: simply click in the slats
- application: outdoor and indoor pools
- min / max. Operating temperature: -31 °C to + 130 °C
- buoyancy in N per m² of pool slats: Mast(eR) approx. 7 kg / m², Clean(eR) approx. 10 kg / m²

#6301

#6302

#6305

#6306

HW4 Functionality

3 HW3 YEARS GUARANTEE

### Clean(eR) tri-extrusion polycarbonate

Three-chamber cavity profile with double connection in the size 60x15 mm,
with double UV protection, hail resistance functionality HW4,
3 year guarantee HW3, K value 2.74 W / m²K, high impact resistance,
elasticity and UV resistance. Extremely high resistance to cold and heat.
The hook connection is created as a dark chamber.
So there is no more light shining on the hook chamber located water which
ensures that almost no algae form in the fins.
This keeps them clean for much longer.
Buoyancy approx. 10 kg / m².
To calculate the m², the width is rounded up to 0.5 m.

| Colour | Code |
|---|---|
| Solar blue transparent with black end caps | 6301 |
| Solar silver transparent with transparent end caps | 6302 |
| Solar green transparent with transparent end caps | 6305 |
| Solar green transparent with black end caps | 6306 |

Regardless of the usual flat-rate freight charges, shipping costs (on request) apply.
Lift on site necessary.

## Mast(eR) tri-extrusion polycarbonate

HW5 Functionality

3 HW3 YEARS GUARANTEE

Three-chamber cavity profile with double connection in the size 60x14 mm, with double UV protection, hail resistance functionality HW5, 3-year guarantee HW3, K value 2.74 W / m²K, high impact resistance, elasticity and UV resistance. Extremely high resistance to cold and heat. High quality polycarbonate with UV absorber in the starting material. Tri-extrusion: additional layer of UV absorbers on the lamella surface. Buoyancy approx. 7 kg / m².
To calculate the m², the width is rounded up to 0.5 m.

| Colour | Code |
|---|---|
| Blue transparent with blue-transparent end caps | 6101 |
| Totally transparent with transparent end caps | 6102 |
| Silver transparent with transparent end caps | 6103 |
| Solar blue transparent with blue transparent end caps | 6201 |
| Solar blue transparent with black end caps | 6202 |
| Solar totally transparent with transparent end caps | 6203 |
| Solar totally transparent with black end caps | 6204 |
| Solar silver transparent with transparent end caps * | 6205 |
| Solar silver transparent with black end caps * | 6206 |
| Solar green transparent with transparent end caps | 6207 |
| Solar green transparent with black end caps | 6208 |

* HW4 Functionality

#6101

#6102

#6103

#6201

#6202

#6203

#6204

#6208

#6207

#6206

#6205



## Mast(eR) mono PVC

3 YEARS GUARANTEE

Three-chamber cavity profile with double connection, in the size 60x14 mm, 3 years guarantee, K-value 2.74 W / m² K, entry slat when insulation is the main goal.
Buoyancy approx. 7 kg / m².
To calculate the m², the width is rounded up to 0.5 m.

| Colour | Code |
|---|---|
| White | 6001 |
| Gray | 6002 |

6001

6002

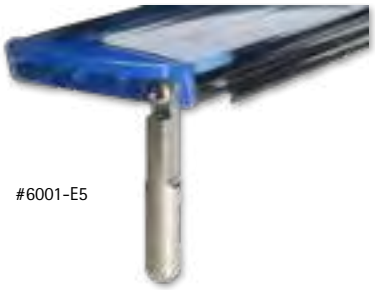
Regardless of the usual flat-rate freight charges, shipping costs (on request) apply.
Lift on site necessary.

## Accessories

For the correct positioning of the slats in above and below floor systems.

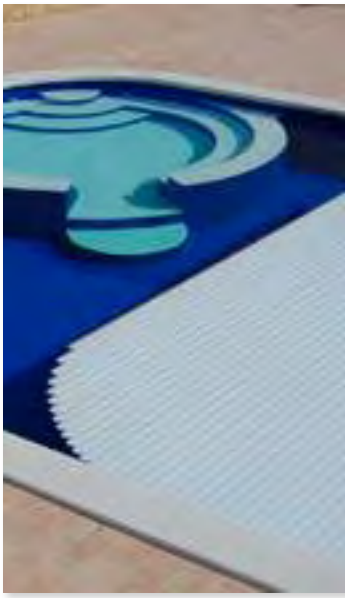
#6001-E7 + #6001-E4

#6001-E6



#6001-E5

| Article | Code |
|---|---|
| Start kit ejection aid + 5 fastening straps L = 2.5 m and universal brackets (up to 5 m wide) | 6001-E7 |
| Start kit ejection aid + 6 fastening straps L = 2.5 m and universal brackets (up to 8 m wide) | 6001-E4 |
| Fastening strap L = 2.5 m, individually | 6001-E6 |
| 1 pair of V4A stainless steel pendulum gliders for 2 m overflow channel | 6001-E5 |



## Options

| Article | Code |
|---|---|
| Surcharge for recess or rounding per slat | 6001-E3 |
| Surcharge for Roman stairs up to 5 m², (for larger stairs on request) | on request |

## Overview of the roll diameters for 140mm and 170mm winding shafts

### Mast (eR) mono PVC + Tri-extrusion polycarbonate

| Cover length in m | number Slats | Ø in mm with 140 mm shaft | |
|---|---|---|---|
| 6 | 100 | 375 | 390 |
| 7 | 117 | 400 | 420 |
| 8 | 133 | 430 | 435 |
| 9 | 150 | 455 | 465 |
| 10 | 167 | 465 | 480 |
| 11 | 183 | 495 | 510 |
| 12 | 200 | 505 | 525 |
| 13 | 217 | 530 | 550 |
| 14 | 233 | 555 | 570 |
| 15 | 250 | 560 | 580 |
| 16 | 267 | 580 | 595 |
| 17 | 283 | 600 | 615 |
| 18 | 300 | 620 | 635 |
| 19 | 317 | 630 | 650 |
| 20 | 333 | 645 | 660 |

### Clean (eR) tri-extrusion polycarbonate

| Cover length in m | number Slats | Ø in mm with 140 mm shaft | |
|---|---|---|---|
| 6 | 100 | 405 | 420 |
| 7 | 117 | 435 | 445 |
| 8 | 133 | 455 | 470 |
| 9 | 150 | 485 | 495 |
| 10 | 167 | 505 | 515 |
| 11 | 183 | 530 | 530 |
| 12 | 200 | 545 | 560 |
| 13 | 217 | 565 | 580 |
| 14 | 233 | 590 | 600 |
| 15 | 250 | 605 | 610 |
| 16 | 267 | 625 | 640 |
| 17 | 283 | 635 | 655 |
| 18 | 300 | 655 | 675 |
| 19 | 317 | 670 | 695 |
| 20 | 333 | 690 | 705 |

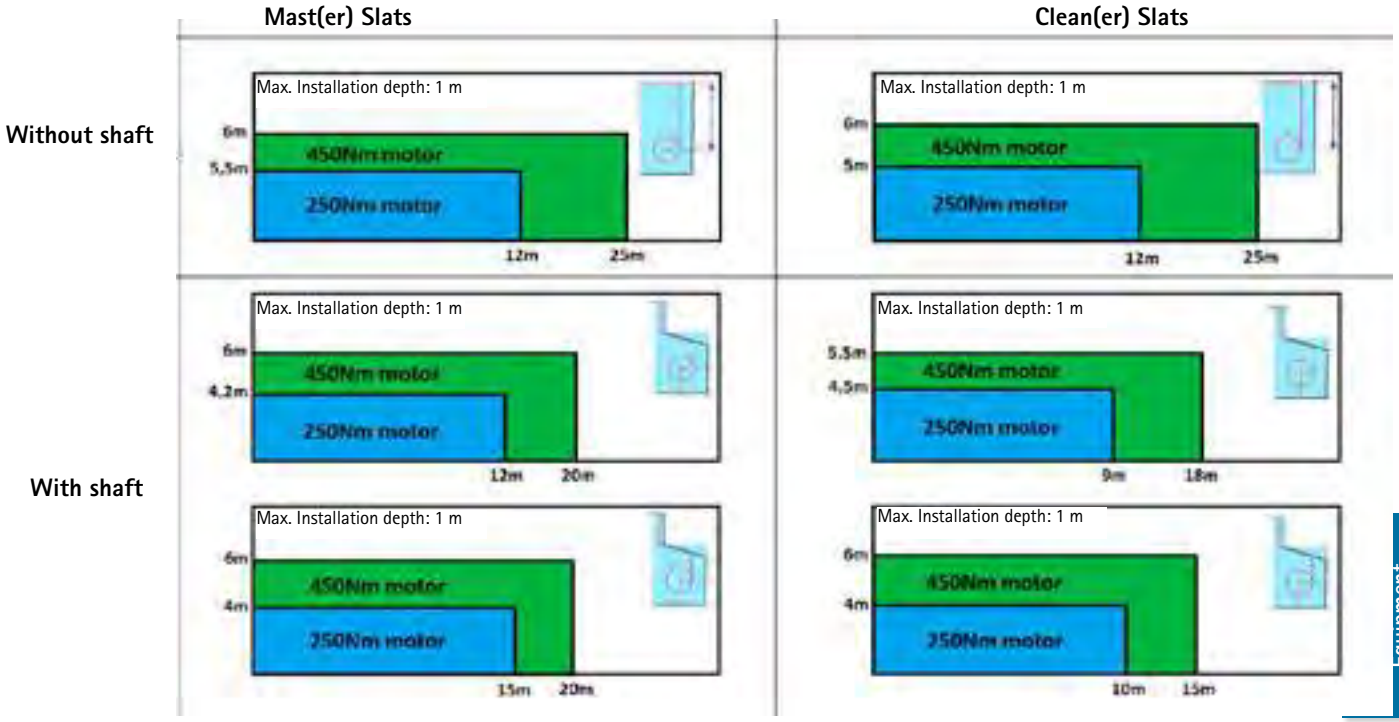
Regardless of the usual flat-rate freight charges, shipping costs (on request) apply.
Lift on site necessary.

# DRIVES FOR ROLLER SHUTTER COVERS

Above and below floor roller shutter drives for PVC and polycarbonate Profile Mast (eR) and Clean (eR).

We would be happy to make you an individual offer.
Here we leave you one on request
Checklist to come.

**Required engine power**




**Caution!** Please consider a cable entry (for the motor) in the pool wall when planning the pool.



## MIDA.Roll
## Underfloor mounting sets

To accommodate the MIDA.Roll trim kit, made of stainless steel V4A / AISI 316 (1.4404),
# 7100-7103 includes 1 "cable entry
# 7104 -7105 also includes a pre-assembly set and a 50/63 mm wall bushing

| Article | Engine | Code |
|---|---|---|
| 1 pair for concrete, tile and liner pools | 250 Nm | 7100 |
| 1 pair for concrete, tile and liner pools | 450 Nm | 7101 |
| 1 pair for prefabricated and stainless steel pools | 250 Nm | 7102 |
| 1 pair for polystyrene pools | 250 Nm | 7104 |
| 1 pair for polystyrene pools | 450 Nm | 7105 |

#7100 + #7101

#7102

#7104 + #7105

Mounting sets for larger motors (> 450 Nm) are available on request.

#7232

For concrete, tile and liner pools we also recommend:

| Article | Code |
|---|---|
| Wall anchor with 2 "AG, for flange mounting the mounting sets | 7132 |

## MIDA.Roll
## Underfloor systems

5 YEARS GUARANTEE*

**included**
25 m cable
+ Key switch

Automatic reeling device for installation under water,
incl. winding shaft and tubular motor, 24 V, made of stainless steel V4A / AISI 316L (1.4404), with quality plastic POM-C, incl. 25 m cable and with key switch for safe operation, for all types of pools (prefabricated, concrete, tile, liner, polystyrene) basin), easy installation, for new projects and existing pools,
conversion kits for existing systems from other manufacturers are available,
max. pool width: 6.0 m (larger systems available on request)

| Article | Engine | Code |
|---|---|---|
| Final assembly set with 140 mm shaft | 250 Nm | 7120 |
| Trim set with 170 mm shaft | 450 Nm | 7121 |

* 5 year guarantee on drives and motor
2 year warranty on key switch

When installing in the attached roller shutter shaft, we recommend installing guide rails (see the following installation drawings on catalog page 151 - type 3 + 4):

| Article | Length | Code |
|---|---|---|
| Guide rail | 696 mm | 7135 |
| Guide rail | 976 mm | 7136 |

## MIDA.Roll
## Remote control for surface and underflow systems

| Article | Code |
|---|---|
| 2-channel control with remote control | 7131 |

Regardless of the usual flat-rate freight charges, shipping costs (on request) apply. Except underfloor installation set.
Lift on site necessary.

## INSTALLATION OPTIONS

### Type 1

On the pool floor with cladding

### Type 2

On the pool floor

### Type 3

In the attached roller shutter shaft with cladding and console

### Type 4

In the attached roller shutter shaft with cladding and console

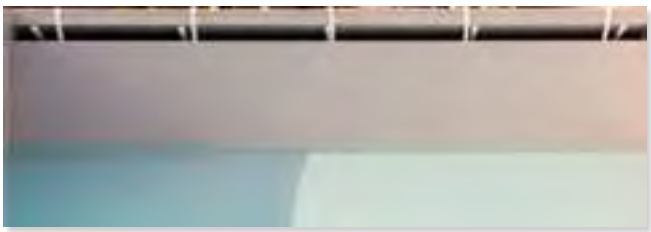
### Type 5

In the floor shaft with cladding



## Cladding for underfloor systems

Available on request, made to measure (5 mm distance on each side), material: PVC, 10 mm thick, color: white, the PVC panels can be individually clad on site (on site) with liner or tiles.



Regardless of the usual flat-rate freight charges, shipping costs (on request) apply. Except underfloor installation set.
Lift on site necessary.

## Seat cover

750 x 750 mm, material: PVC, color: white, 10 mm thick (photo type 1)

| Article | Code |
|---|---|
| Pre-assembly kit for concrete, tile and liner pools | 7150 |
| Pre-assembly set for prefabricated and stainless steel pools | 7151 |
| Pre-assembly kit for styrofoam pools | 7152 |

| Article | Code |
|---|---|
| Bench cladding up to 3 m wide | 7140 |
| Bench cladding up to 4 m wide | 7141 |
| Bench cladding up to 5 m wide | 7142 |
| Bench cladding up to 6 m wide | 7143 |

## Front fairing

Material: PVC, color: white, 10 mm thick (photo type 3 + 4)

| Article | Code |
|---|---|
| Pre-assembly set 750 mm for concrete, tile and liner pools | 7180 |
| Pre-assembly set 750 mm for prefabricated and stainless steel pools | 7181 |
| Pre-assembly set 750 mm for styrofoam pools | 7182 |
| Pre-assembly set 1,000 mm for concrete, tile and liner pools | 7183 |
| Pre-assembly set 1,000 mm for prefabricated and stainless steel pools | 7184 |
| Pre-assembly kit 1,000 mm for styrofoam pools | 7185 |

| Article | Code |
|---|---|
| Front cladding 750 mm, up to 3 m wide | 7160 |
| Front cladding 750 mm, up to 4 m wide | 7161 |
| Front cladding 750 mm, up to 5 m wide | 7162 |
| Front cladding 750 mm, up to 6 m wide | 7163 |

| Article | Code |
|---|---|
| Front cladding 1,000 mm, up to 3 m wide | 7170 |
| Front cladding 1,000 mm, up to 4 m wide | 7171 |
| Front cladding 1,000 mm, up to 5 m wide | 7172 |
| Front cladding 1,000 mm, up to 6 m wide | 7173 |

## Floor cladding

750 mm, material: PVC, color: white, 10 mm thick (photo type 5)

| Article | Code |
|---|---|
| Pre-assembly kit for concrete, tile and liner pools | 7195 |

| Article | Code |
|---|---|
| Floor cover plate up to 3 m wide | 7190 |
| Floor cover plate up to 4 m wide | 7191 |
| Floor cover plate up to 5 m wide | 7192 |
| Floor cover plate up to 6 m wide | 7193 |

# SAFETY COVERS

Safety covers replace an air cushion cover and its roll-up device,
a winter cover and any other security system.
Thanks to the good perimeter sealing, the pool stays clean in winter as in summer.
Opaque PVC fabric inhibits the development of algae. 100% child safe.

| Comparison overview | STARLIGHT | PRESTIGE | TOP |
|---|---|---|---|
| Pool type | Recessed basins | Recessed basins | Recessed basins |
| Load capacity | 125 kg | 125 kg | 100 kg |
| Execution of the PVC film | multi-part | one piece | one piece |
| Weight of the PVC film | 650 g/m² | 650 g/m² | 580 g/m² |
| Average weight of the cover | 1.250 g/m² | 1.250 g/m² | 1.100 g/m² |
| Material of the profiles | Anodized aluminum | Anodized aluminum | Anodized aluminum |
| Profile shape | double line, end pieces flattened | double line, end pieces flattened | Round |
| Profile outer diameter | 46 mm | 46 mm | 45 mm |
| Suitable for overflow pool | no | yes | yes |
| Sonderformen möglich | - | - | yes |
| Roll up (depending on the pool area) | 1 hand crank (2 ≥ 50 m²) | 1 hand crank (2 ≥ 50 m²) | 1 hand crank (2 ≥ 50 m²) |
| Roll up square | 2 | 2 | 1 (2 ≥50 m²) |
| Fastening - broad side | Lashing straps and ratchets made of stainless steel | Lashing straps and ratchets made of stainless steel | Lashing straps and ratchets made of stainless steel |
| Hook-in system - broad side | Pull-out stainless steel pens with sleeves | Pull-out stainless steel pens with sleeves | Pull-out stainless steel pens with sleeves |
| Attachment - long side | Cabiclic straps + pens or WIND-SAFESYSTEM (optional) | included WINDSAFE SYSTEM | included WINDSAFE SYSTEM |
| Overhang on the circumference | 20 cm | 30 cm | 25 cm |
| Cut-out for stairs or filter block | yes | - | - |
| Stairs at the end of the pool | tied to the cover | tied to the cover | tied to the cover |
| Staircase on the long side | separated from the cover | separated from the cover | separated from the cover |
| max.Becker interior dimensions | 11,00 x 5,50 m | 10,00 x 5,00 m | 10,00 x 5,00 m |
| Snow resistance * WITHOUT snow profiles | 10 cm | 10 cm | 7,5 cm |
| Snow resistance * WITH snow profiles | 20 cm | 20 cm | 15 cm |
| Guarantee | 5 Years | 5 Years | 3 Years |

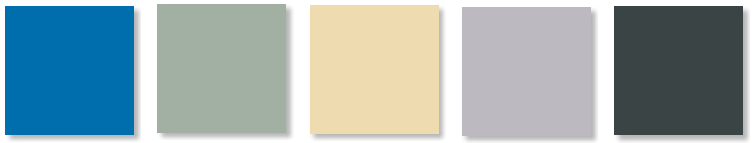
* Minimum snow depth (for powder snow and pools completely filled with water)

## OPAQUE COLORS

MODELS STARLIGHT AND PRESTIGE

Azure blue | Midnight blue | Swiss green | Sand | Mocha | Light gray | Anthracite gray

MODEL TOP



Royal blue | Almond green | Sand | Light gray | Anthracite gray

Surcharge (per m²): + 10% for cover areas under 20 m²

**ATTENTION:**

**STARLIGHT** is only suitable for rectangular pools (with or without stairs) and can only be made in a rectangular shape with an overhang of 20 cm each.

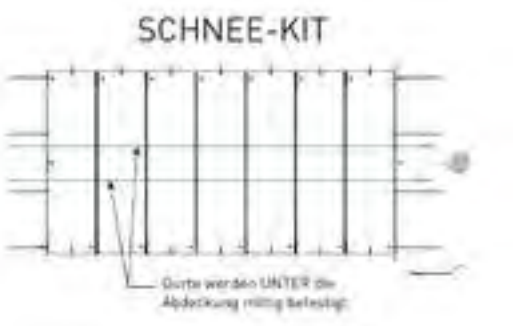
**PRESTIGE** is only suitable for rectangular pools (with or without stairs) and can only be made in a rectangular shape with an overhang of 30 cm each.

**TOP** is made in a rectangular shape for special shaped pools (according to feasibility study). In this case, an edge protection reinforcement kit must be ordered and adjusted on site (see additional equipment). The overhang on each side is 25 cm.

Cover for pools with special shapes is possible on request.

## ADDITIONAL EQUIPMENT

| Article | Code |
|---|---|
| Quick release system for pools WITHOUT ladder / stairs (STARLIGHT / PRESTIGE / TOP) | 66510-E1 |
| Quick release system for pools WITH ladder / stairs (STARLIGHT/PRESTIGE/TOP) | 66510-E2 |
| Adjustable fastening on the bearing side (STARLIGHT/PRESTIGE/TOP) | 66510-E3 |
| Set of protective cover made of PVC (STARLIGHT/PRESTIGE/TOP) | 66510-E4 |
| Removable drawstring option (STARLIGHT/PRESTIGE/TOP) | 66510-E5 |
| Piping for the long side (PRESTIGE/TOP) | 66510-E6 |
| Tailor-made pelvic rim replacement profile (STARLIGHT) | 66512-E1 |
| Cut-out flat rate for stairs (STARLIGHT) | 66512-E2 |
| Cut-out flat rate for ladder or filter block (STARLIGHT) | 66512-E3 |
| Windsafe system integrated safety belts on both long sides (STARLIGHT) | 66512-E4 |
| Edge protection reinforcement kit for non-rectangular pools (TOP) | 66511-E1 |




## WIND KIT & SNOW KIT

(STRAPS WITH RATCHETS)

- Wind kit: Increase the wind resistance Walu Pool
- Snow Kit: Increase the snow resistance Walu Pool

Contents: 1 strap 35 mm wide, 1 tensioner with ratchet, 2 D-rings and 2 pins with sleeves Ø 12 mm
Stainless steel eyelets and ratchet

| Article | Code |
|---|---|
| Wind & Snow Kit 6m | 66500-E1 |
| Wind & Snow Kit 7m | 66500-E2 |
| Wind & Snow Kit 8m | 66500-E3 |
| Wind & Snow Kit 9m | 66500-E4 |
| Wind & Snow Kit 10m | 66500-E5 |
| Wind & Snow Kit 11m | 66500-E6 |
| Wind & Snow Kit 12m | 66500-E7 |
| Wind & Snow Kit 13m | 66500-E8 |
| Wind & snow kit another running meter | 66500-E9 |

# AIR PILLOW FILM

## BUBBLE WRAP WITH SOLAR EFFECT

FOR SUMMER, 400 µ thick

UV-stabilized PE film with air chambers, color: blue. The welded air chambers reduce heat losses. The solar effect can heat the daytime pool water can be reached.
The tarpaulin must be cut to the shape of the pool by the customer.
Delivered as a rectangle. The tarpaulin is approx. 50 cm longer in length for attachment to a roll-up rod or device. To protect your bubble wrap, you should also order the protective film listed below.

### Without accessories

| Article | Size |
|---|---|
| 66600 | 650 x 300 |
| 66601 | 750 x 350 |
| 66602 | 850 x 400 |
| 66603 | 950 x 450 |
| 66604 | 1050 x 500 |

### With accessories*

| Article | Size |
|---|---|
| 66605 | 600 x 300 |
| 66606 | 700 x 350 |
| 66607 | 800 x 400 |
| 66608 | 900 x 450 |
| 66609 | 1000 x 500 |

* Bubble wrap for rectangular pools without addition: with loop for the floating tube, 2 eyelets, pulling rope and floating tube

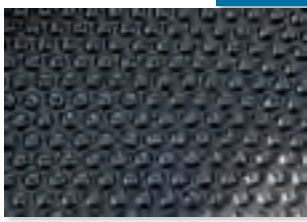
| Article | Size (cm) | Code |
|---|---|---|
| Protective film white / black for bubble wrap | 600 x 100 | 6667 |

**Other liners available on request!**

## CUSTOM MADE BUBBLE WRAP

BLUE AND BLACK

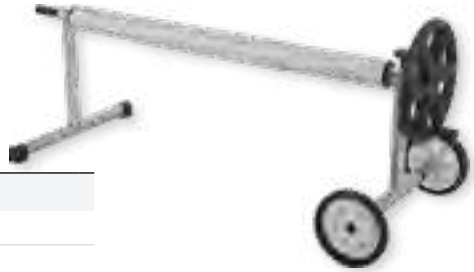
Custom-made bubble wrap, made exactly to the size you want.
The calculation is always
based on the rectangular dimension (greatest length and greatest width). Tarpaulin cuts possible for round and oval pools.



| Article | Calculation | Code |
|---|---|---|
| Custom-made bubble wrap made of PE film with individual air chambers, film thickness 400 µ. Color: Black | per m² | 6660 |
| Custom-made bubble wrap made of PE film with individual air chambers, film thickness 400 µ. Colour blue | per m² | 6661 |
| Ø 32 pull loop with eyelets and rope for floating tube | per lfm. | 6662 |
| Eyelet for tarpaulin or pull rope attachment | per piece | 6663 |
| Edge reinforcement (even sides only) and only in black | per lfm. | 6664 |
| Draw tube Ø 32 mm in pieces 120 cm with sleeves, Caps and glue (please specify length when ordering) | per piece | 6665 |
| Traction rope for bubble wrap | per lfm. | 6666 |
| Cut round | per piece | 6668 |

## REELING DEVICE

Mobile aluminum retractor including hinge set for attaching a pool cover.
Adjustable from 2.10 m - 6.30 m.



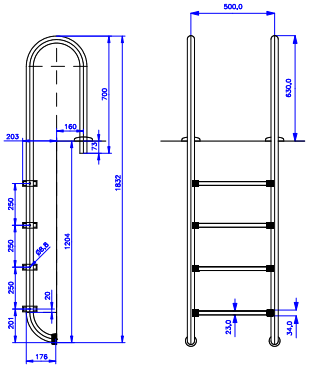
| Article | Code | kg |
|---|---|---|
| Mobile retractor | 2321 | 11,00 |

# ACCESS LADDERS V2A/AISI 304

## ACCESS LADDER (V2A/AISI 304) ACCORDING TO DIN EN 16582-1

Highly polished stainless steel V2A/AISI 304, holm Ø 42,4 mm, with all accessories, holm distance: 500 mm, distance to the wall: 144 mm, step distance: 250 mm (distance ground to first stage 250 mm), stainless steel non-slip steps.

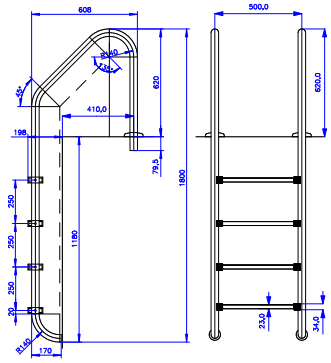
### HOLM TIGHT CURVED



#511-N

| Version | number of steps | max. burden | Code | kg |
|---|---|---|---|---|
| Holm tight curved | 2 | 120 kg | 510-N | 10,0 |
| Holm tight curved | 3 | 120 kg | 511-N | 11,8 |
| Holm tight curved | 4 | 120 kg | 512-N | 13,2 |
| Holm tight curved | 5 | 120 kg | 513-N | 14,0 |

### HOLM WIDE CURVED



#521-N

| Version | number of steps | max. burden | Code | kg |
|---|---|---|---|---|
| Holm wide curved | 2 | 120 kg | 520-W | 10,0 |
| Holm wide curved | 3 | 120 kg | 521-W | 11,8 |
| Holm wide curved | 4 | 120 kg | 522-W | 13,2 |
| Holm wide curved | 5 | 120 kg | 523-W | 10,4 |

### EQUIPMENT (FOR HOLM TIGHT CURVED AND HOLM WIDE CURVED)

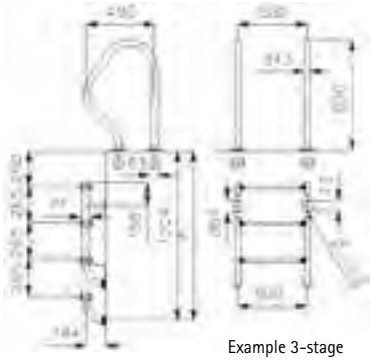
| Article | Code |
|---|---|
| Mounting set flange mounting AISI 304, 1 pair for ladders tight and curved | 510 |

#531-U

## 2-SECTION LADDER (V2A/AISI 304) ACCORDING TO DIN EN 16582-1

2-SECTION

High quality 2-section stainless steel ladder (V2A/AISI 304), highly polished stainless steel, holm Ø 43 mm, with all accessories, holm distance: 500 mm, distance to the wall: 144 mm, step distance: 250 mm (Distance ground to first stage 250 mm), both parts with flange mounting, stainless steel non-slip steps.



Example 3-stage

| Article | number of steps | max. burden | Code | kg |
|---|---|---|---|---|
| Access Ladder | 3 | 120 kg | 531-U | 22,5 |
| Access Ladder | 4 | 120 kg | 532-U | 23,5 |

## HIGH POOL SAFETY LADDER ACCORDING TO DIN EU NORM

Material: stainless steel V2A, polished, spar Ø43 mm, retrofit kit for securing high pool ladders according to the new standard for private swimming pools 16582-1. Max. load: 120 kg. Retrofit kit for 3-stage, 4-stage and 5-stage, complete with folding part N.
The steps are corrugated.

| Pool height | number of steps | max. burden | Code | kg |
|---|---|---|---|---|
| 1,00 m | 3 | 120 kg | 515-HD | 20,5 |
| 1,20 m | 4 | 120 kg | 516-HD | 23,5 |
| 1,50 m | 5 | 120 kg | 517-HD | 26,8 |

## HIGH POOL LADDER (V2A/AISI 304) ACCORDING TO DIN EN 16582-1*

Steps: 4/4

Steps: 4/1

Material: stainless steel V2A, polished, spar Ø42 mm, steps and platform made of plastic, step depth step approx. 80 mm, step depth platform approx. 300 mm, max. load: 120 kg, vertical step distance 230 mm, width center of center bar 500mm, bar height above platform approx. 500 mm.
The steps are corrugated.

| Pool height | number of steps | max. burden | Code | kg |
|---|---|---|---|---|
| 1,00 m | 3/3 | 120 kg | 515-H | 18,0 |
| 1,20 m | 4/4 | 120 kg | 516-H | 20,5 |
| 1,50 m | 5/5 | 120 kg | 517-H | 23,8 |
| 1,20 m | 4/1 | 120 kg | 518-H | 16,0 |
| 1,50 m | 5/1 | 120 kg | 519-H | 19,5 |

| Conversion-Sets (single sided) adapt to DIN EN 16582-1 | Code | kg |
|---|---|---|
| Conversion-Set Folding Lock for High Pool Ladders with 3 steps | 5910 | 8,0 |
| Conversion-Set Folding Lock for High Pool Ladders with 4 steps | 5912 | 8,5 |
| Conversion-Set Folding Lock for High Pool Ladders with 5 steps | 5915 | 9,0 |

* To comply with DIN EN 16582-1: Coversion required

## LADDER HANDLE ARCH (V2A/AISI 304)

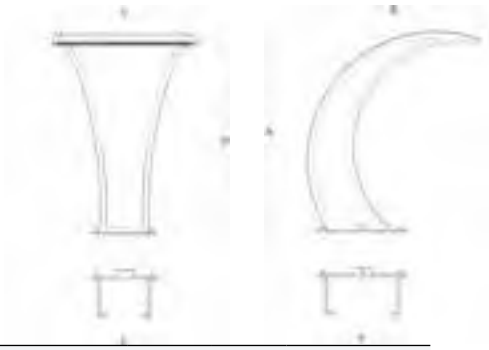
Height 850 mm, 1200 mm outreach, holm Ø 43 mm, stainless steel V2A/AISI 304 polished

| Article | Packing | Code | kg |
|---|---|---|---|
| Ladder handle arch | 12 | 510.1 | 5,5 |

# WATER ATTRACTION

## WATER ATTRACTION COSTA

- connection with 2" internal thread
- material stainless steel V4A/AISI 316
- **incl. anchor**
- pumps see from page 103



| Model | Packing | Recommended pump capacity | kg | Code |
|---|---|---|---|---|
| Costa 300 | 1 | 18 m³/h | 18 | 01.20 |
| Costa 500 | 1 | 21 m³/h | 25 | 01.21 |
| Costa 700 | 1 | 24 m³/h | 50 | 01.22 |
| Costa 1000 | 1 | 29 m³/h | 60 | 01.23 |

| Dimensions | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|---|---|---|---|---|---|---|
| Costa 300 | 650 | 600 | 300 | 560 | 180 | 260 |
| Costa 500 | 700 | 600 | 500 | 660 | 230 | 310 |
| Costa 700 | 800 | 765 | 700 | 730 | 255 | 340 |
| Costa 1000 | 1000 | 900 | 1000 | 950 | 330 | 440 |

## WATER ATTRACTION CASCADE and CASCADE RAIN

- connection with 2" internal thread
- material stainless steel V4A/AISI 316
- **incl. anchor**
- pumps see from page 103

Cascade

Cascade Rain

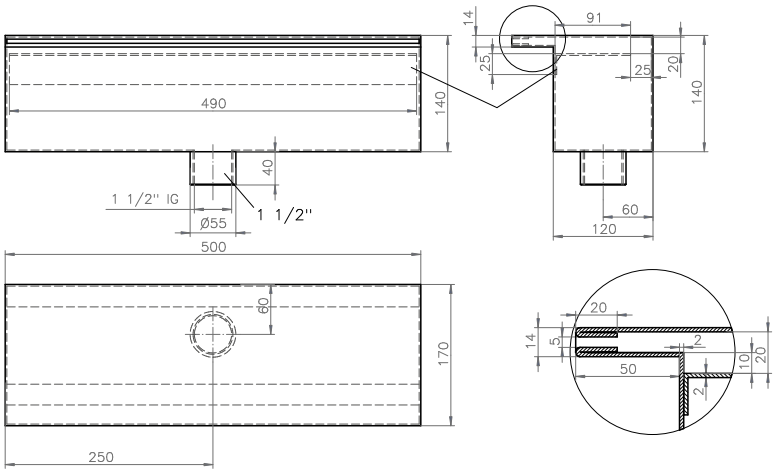
Cascade + Cascade Rain

| Model | Packing | Recommended pump capacity | kg | Code |
|---|---|---|---|---|
| Cascade 300 | 1 | 5–18 m³/h | 20 | 01.50 |
| Cascade 500 | 1 | 6–21 m³/h | 25 | 01.51 |
| Cascade 700 | 1 | 7–24 m³/h | 53 | 01.52 |
| Cascade 1000 | 1 | 9–29 m³/h | 64 | 01.53 |
| Cascade Rain 300 | 1 | 5–18 m³/h | 20 | 01.55 |
| Cascade Rain 500 | 1 | 6–21 m³/h | 25 | 01.56 |
| Cascade Rain 700 | 1 | 7–24 m³/h | 53 | 01.57 |
| Cascade Rain 1000 | 1 | 9–29 m³/h | 64 | 01.58 |

| Dimensions | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|---|---|---|---|---|---|
| Cascade/Rain 300 | 700 | 500 | 300 | 400 | 200 |
| Cascade/Rain 500 | 700 | 500 | 500 | 600 | 200 |
| Cascade/Rain 700 | 700 | 500 | 700 | 800 | 200 |
| Cascade/Rain 1000 | 700 | 500 | 1000 | 1100 | 200 |

# WATER ATTRACTION TEXAS

- **for wall mounting**
- connection with 1" internal thread
- material stainless steel V4A/AISI 316 polished
- Height approx. 140 mm
- run-out approx. 490 mm
- pumps see from page 103



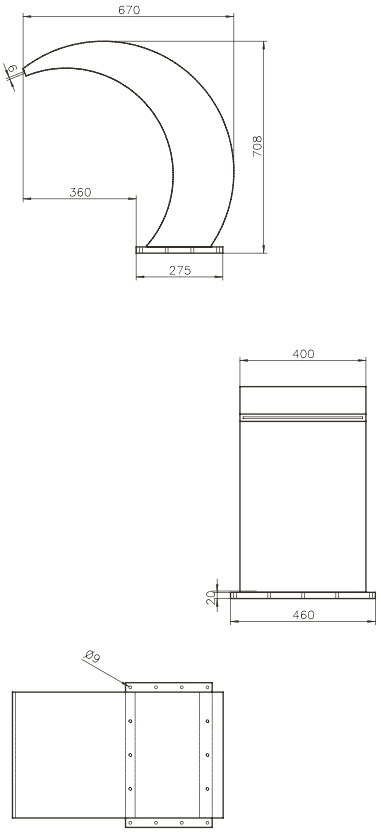

| Model | Packing | Recommended pump capacity | Code |
|---|---|---|---|
| Texas | 1 | 2–3 $m^3/h$ | 01.65 |

## WATER ATTRACTION TROPIC

The TROPIC showers are a design highlight, Transparent, light yet elegant. Made of clear acrylic glass, this attraction not only offers a clear view of the streaming waterfall, but is also a visual highlight in every wellness garden. The clear structures and the stable noble acrylic glass forming form a perfect unit. Thanks to the built-in LED/RGB lights, you will experience a fireworks display of color at twilight, which you can control individually with the remote control.

- case: acrylic glass 15 mm thick
- height: approx. 703 mm
- spout width: approx. 400 mm
- water connection: 1½" internal thread
- lighting: LED/RGB lighting with remote control
- mounting: flange mounting, flange plate 460 x 275 mm
- counterflange: 1½"
- including remote control, controller (no protection) and transformer
- pumps see from page 103

Made in Germany



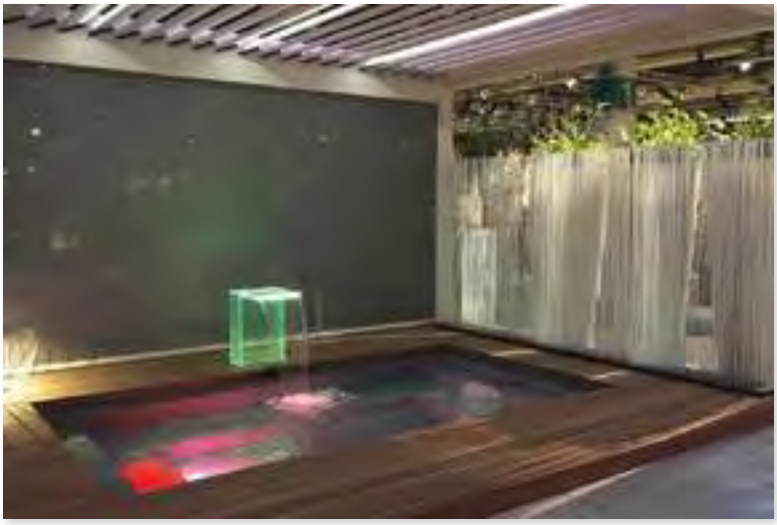
| Model | Packing | recommended pump capacity | kg | Code |
|---|---|---|---|---|
| Tropic | 1 | 23 m³/h | | 01.70 |

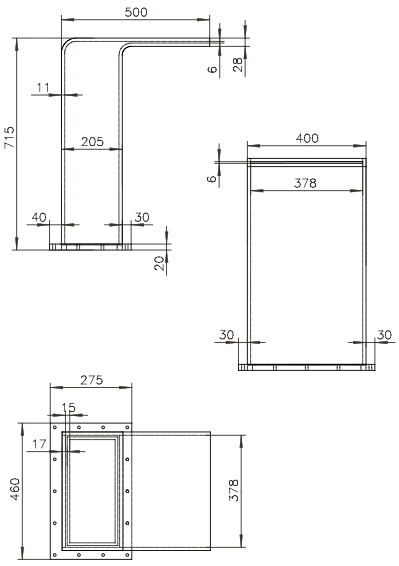
# WATER ATTRACTION RIO

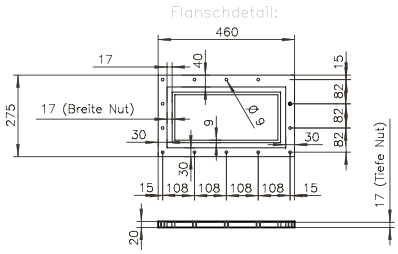
Exceptional and noble – the water attraction RIO meets the special taste.
Made of durable stainless steel and acrylic glass. Air bubbles, which are illuminated by long-lived LED/RGB lights, dance within the small aquarium.
An even waterfall pours into the pool or swimming pond.
Especially at dusk or at night you will experience a colorful spectacle of special kind. Waterfall, bubbles and LED/RGB lighting are separately adjustable.

- case: acrylic glass 11 mm thick
- height: approx. 715 mm
- spout width: approx. 400 mm
- water connection: 1½" IG
- lighting: LED/RGB lighting with remote control
- mounting: flange mounting, flange plate 460 x 275 mm
- counterflange: 1½"
- including remote control, controller (no protection) and transformer
- pumps see from page 103

Made in Germany





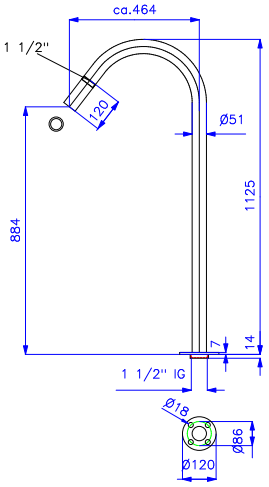




| Model | Packing | recommended pump capacity | kg | Code |
|---|---|---|---|---|
| Rio | 1 | 23 m³/h | | 01.80 |

## WATER ATTRACTION FLEXI

Refreshment, massage and fun - the stainless steel stillpipes offer different options.
The very sturdily constructed stillpipes made of stainless steel have a tube diameter of 51 mm and a height of approx. 110 cm.
You can choose from four different nozzle inserts.
Round jet, round - six jet, flat jet and flat - four jet.
The nozzle inserts are already assembled and sealed in the factory.
A pump output of approx. 8 m3 / h is recommended.

- water connection with 1½" internal thread
- splash water pipe Ø 51 x 1.5 mm x 1100 mm
- 4 different nozzle attachments
- material: stainless steel V2A / AISI 304
- weight: 6 kg
- pumps: see from catalog page 103




### TYPE A - ROUND JET

### TYPE B - ROUND 6-RADIAL

### TYPE C - FLAT JET

### TYPE D - FLAT 4-RADIAL

| Model | Connection | Packing | kg | Code |
|---|---|---|---|---|
| Type A | 2" FIP | 1 | 5,5 | 11.00 |
| Type B | 2" FIP | 1 | 5,5 | 11.06 |
| Type C | 2" FIP | 1 | 5,5 | 11.11 |
| Type D | 2" FIP | 1 | 5,5 | 11.14 |

## AIR BLOWER

Pumps designed for bubble baths and swimming pools, water treatment, car drying, ventilation / dust extraction, etc. Blower pumps constructed entirely in aluminum and suitable for continuous operation. Single stage side channel pumps, without any maintenance. Includes intlet and outlet silencers.

| Code | Max. Flow $m^3/h$ | kW | HP | V | dB | Connections | kg | Applications |
|---|---|---|---|---|---|---|---|---|
| 790M | 145 | 0,85 | 1,2 | 230 | 63 | 1 1/2" | 16,0 | 10 Jets |
| 790T | 145 | 0,85 | 1,2 | 400 | 63 | 1 1/2" | 16,0 | 10 Jets |
| 791M | 145 | 1,3 | 1,8 | 230 | 63 | 1 1/2" | 17,0 | 10 Jets |
| 791T | 145 | 1,3 | 1,8 | 400 | 63 | 1 1/2" | 17,0 | 10 Jets |
| 792M | 210 | 1,3 | 1,8 | 230 | 64 | 2" | 22,0 | 20 Jets |
| 792T | 210 | 1,3 | 1,8 | 400 | 64 | 2' | 22,0 | 20 Jets |
| 793M | 210 | 1,5 | 2,0 | 230 | 64 | 2' | 24,0 | 20 Jets |
| 793T | 210 | 1,6 | 2,2 | 400 | 64 | 2' | 23,0 | 20 Jets |
| 794T | 318 | 2,2 | 3,0 | 400 | 69 | 2' | 30,0 | 20 Jets |
| 795T | 318 | 3,0 | 4,0 | 400 | 69 | 2' | 36,0 | 20 Jets |

# 07

# MOUNTING PARTS

*The helpers behind the pool wall: Elegant stainless steel skimmer MIDA.Slim Premium, floor drains, inlet nozzles, wall penetrations - these products are required for every pool. With built-in parts from MIDAS, you opt for sustainable quality, whether made of plastic, stainless steel, gunmetal or bronze.*

## OVERVIEW

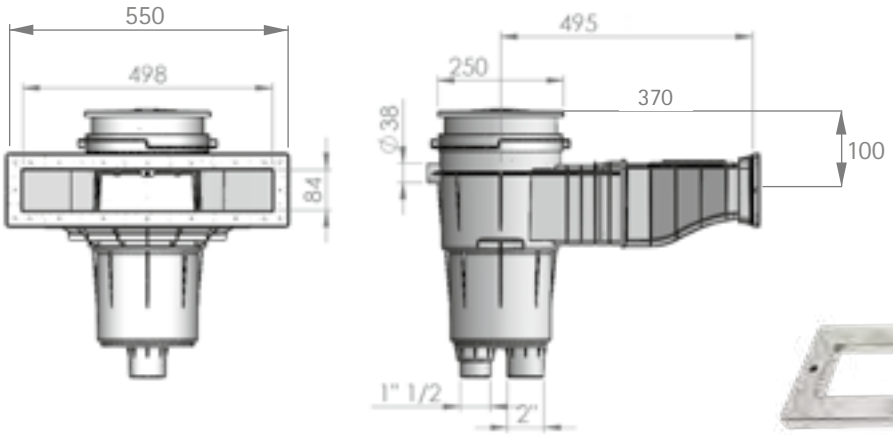

| | |
|---|---|
| 166 | MIDA.Slim Skimmer |
| 167 | ABS Skimmer Mini / Standard / Wide mouth De Luxe |
| 168 | Wall Inlets Nozzles, Floor Inlets, Floor Drains |
| 169 | Wall Conduits |

# SKIMMER

## MIDA.Slim ABS PLASTIC

- suction opening: 498 x 95 mm (550 x 135 mm outside)
- convinces with new design and modern functionality
- robust, made of high-quality ABS
- incl. cover for liner pools or with flange, gaskets, scews and cover for installation in **liner, fiberglass, polypropylene and segment basins**
- with integrated threaded sleeves to fix the screws of flange
- color: white
- depth: 620 mm
- depth skimmer neck: 370 mm
- connection: 2" and 1½" inner thread (vertical outlet)
- flow-rate: 7 - 10 $m^3/h$
- device for overflow connection 32 mm
- 25 mm height-adjustable lid to adapt to the pool edge

#0254



0254-E1

| Article | Code | kg |
|---|---|---|
| Slim Line Skimmer ABS plastic for liner pools (incl. flange) | 0254 | 3,2 |
| Cover made of stainless steel V4A / AISI 316L for MIDA.Slim Line Skimmer ABS, Suction opening: 495 x 78 mm Dimensions: 560 x 140 x 17 mm | 0254-E1 | |

## ABS MINI SKIMMER

MINI skimmer ABS, complete set, Ø 32 mm and Ø 38 mm hose connection, incl. inlet nozzle, suction plate (skim vac), cover plate, basket, inlet nozzle and teflon tape, supplied with flange, gaskets and screws for suitable all **steel wall pools**, robust construction,
flow-rate: 5 $m^3$/h,
color: white.

| Suitable for | Code | kg |
|---|---|---|
| Steel wall pools | 620-S | 2,0 |

## ABS STANDARD SKIMMER

Surfaces is an skimmer **for concrete, liner and prefabricated pools**, skimmer with universal solvent socket 50 d (closed) and 1½" IG 2" AG, overflow connection Ø 40 mm,
lid opening 208 x 140 mm,
flow-rate: 5 $m^3$/h,
color: white.

#0249FG

| Suitable for | Code | kg |
|---|---|---|
| Liner/prefabricated pools (Flange) | 0249FG | 6,0 |

## ABS WIDE MOUTH SKIMMER DELUXE

Surfaces is an skimmer **for liner and prefabricated pools** , skimmer with universal female solvent socket 50 d (closed) and 1½" IG 2" AG, overflow connection Ø 40 mm,
lid opening 353 x 167 mm,
Flow-rate: 5 $m^3$/h,
color: white.

#0250FG

| Suitable for | Code | kg |
|---|---|---|
| Liner/prefabricated pools (Flange) | 0250FG | 7,0 |

# INLET NOZZLES AND FLOOR DRAINAGE

Made in Germany

## INLETS FLANGED PARTS

With cover and ball 4 x 8 mm, material: stainless steel V4A / AISI 316L
for wall ducts # 03.32, 03.32-B, 03.33 and 03.33-B

| Suitable for | Packing | Material | Code |
|---|---|---|---|
| Liner pool (including flange set) | 1 | gunmetal* | 03.34 |
| Liner pool (including flange set) | 1 | bronze** | 03.34-B |

Made in Germany

## INFLATING TIGHTS WITH FLANGE SET

2" external thread, with cover and ball 4 x 8 mm.
Material: stainless steel V4A / AISI 316L.

| Suitable for | Packing | Material | Lenght | Code |
|---|---|---|---|---|
| Liner pool (including flange set) | 1 | gunmetal* | 40 mm | 03.22 |
| Liner pool (including flange set) | 1 | bronze** | 40 mm | 03.22-B |
| Liner pool (including flange set) | 1 | gunmetal* | 70 mm | 03.24 |
| Liner pool (including flange set) | 1 | bronze** | 70 mm | 03.24-B |

Made in Germany

## INLET NOZZLES WITHOUT FLANGE SET

2" external thread, with cover and ball 4 x 8 mm, material: stainless steel V4A / AISI 316L

| Suitable for | Packing | Material | Lenght | Code |
|---|---|---|---|---|
| Tiled and prefabricated pools (without counter replacement) | 1 | gunmetal* | 40 mm | 03.20 |
| Tiled and prefabricated pools (without counter replacement) | 1 | bronze** | 40 mm | 03.20-B |
| Tiled and prefabricated pools (without counter replacement) | 1 | gunmetal* | 70 mm | 03.21 |
| Tiled and prefabricated pools (without counter replacement) | 1 | bronze** | 70 mm | 03.21-B |

Made in Germany

## COUNTERPIECE FOR PREFABRICATED BASIN

2" internal thread, incl. seal

| Suitable for | Packing | Material | Code |
|---|---|---|---|
| Counterpiece for prefabricated basin | 1 | gunmetal* | 03.25 |

Made in Germany

#03.11

#03.19

## FLOOR DRAIN 90 ° OUTLET

1½" and 2" internal thread, with anti-vortex cover Ø 168 mm,
Material: Stainless steel V4A / AISI 316L.

| Suitable for | Packing | Material | Code |
|---|---|---|---|
| 1½" Liner pool (including flange set) | 1 | gunmetal* | 03.11-F |
| 1½" Liner pool (including flange set) | 1 | bronze** | 03.11-FB |
| 1½" Concrete pool | 1 | gunmetal* | 03.11-B |
| 1½" Concrete pool | 1 | bronze** | 03.11-BB |
| 2" Liner pool (including flange set) | 1 | gunmetal* | 03.19-F |
| 2" Liner pool (including flange set) | 1 | bronze** | 03.19-FB |

* not suitable for salt electrolysis ** max.salt concentration: 6% *** does not conform to DIN EN
max. 750 mg / l chloride content for V4A stainless steel

## FLOOR DRAIN VERTICAL EXIT

1½" internal thread, with anti-vortex cover Ø 168 mm.
Material: Stainless steel V4A / AISI 316L, Ø 168 mm.

Made in Germany

| Suitable for | Packing | Material | Code |
|---|---|---|---|
| Liner pool (including flange set) | 1 | gunmetal* | 03.18-F |
| Liner pool (including flange set) | 1 | bronze** | 03.18-FB |
| Prefabricated pool (including counter flange) | 1 | gunmetal* | 03.18-FE |
| Prefabricated pool (including counter flange) | 1 | bronze** | 03.18-FEB |
| Concrete pool | 1 | gunmetal* | 03.18-B |
| Concrete pool | 1 | bronze** | 03.18-BB |

## SUCTION FITTINGS

Plug-in base element 2" AG, with cover made of stainless steel V4A / AISI 316L.

Made in Germany

03.26-F

03.26-FE / 03.27-FE

| Suitable for | Packing | Material | Lenght | Code |
|---|---|---|---|---|
| Liner pool (including flange set) | 1 | gunmetal* | 40 mm | 03.26-F |
| Liner pool (including flange set) | 1 | bronze** | 40 mm | 03.26-FB |
| Tiled and prefabricated pools (without counter replacement) | 1 | gunmetal* | 40 mm | 03.26-FE |
| Tiled and prefabricated pools (without counter replacement) | 1 | bronze** | 40 mm | 03.26-FEB |
| Tiled and prefabricated pools (without counter replacement) | 1 | gunmetal* | 70 mm | 03.27-FE |
| Tiled and prefabricated pools (without counter replacement) | 1 | bronze** | 70 mm | 03.27-FEB |

Made in Germany

03.28

03.29

03.25

### ACCESSORY BASE ELEMENTS

| Article | Packing | Material | Code |
|---|---|---|---|
| Hose nozzle 38 mm with O-ring | 1 | gunmetal* | 03.28 |
| Hose nozzle 38 mm with O-ring | 1 | bronze** | 03.28-B |
| Sealing plug with O-ring | 1 | V4A/AISI 316L | 03.29 |
| Counterparts 2" for prefabricated pools (including seal) | 1 | gunmetal* | 03.25 |

## WALL CONDUIT

2 x 1½" and 2 x 2" internal thread, for tile and liner pools.

Made in Germany

| Material | Packing | Lenght | Code |
|---|---|---|---|
| 2 x 1½" Gunmetal* | 1 | 240 mm | 03.00 |
| 2 x 1½" Bronze** | 1 | 240 mm | 03.00-B |
| 2 x 2" Gunmetal* | 1 | 240 mm | 03.32 |
| 2 x 2" Bronze** | 1 | 240 mm | 03.32-B |
| 2 x 2" Gunmetal* | 1 | 300 mm | 03.33 |
| 2 x 2" Bronze** | 1 | 300 mm | 03.33-B |

* not suitable for salt electrolysis

** max. salt concentration: 6%

#0295

#0295F

## INLET NOZZLE MULTI-FLOW ADJUSTABLE

Adjustable inlet nozzle for screwing with screw collar, made of ABS, **for concrete pools**, size and flow rate with cherry adjustable, ball diameter 14-20-25, for prefabricated pools delivery with gaskets and nuts, max. recommended flow rate 2,2 m³/h - 4,5 m³/h - 7,0 m³/h, **for liner pools** additionally with flange and stainless steel screws, color: white.

| Suitable for | Connections | Packing | Code | kg |
|---|---|---|---|---|
| Concrete pools | d 50 mm/2" External thread | 48 | 0295 | 0,18 |
| Prefabricated pools | d 50 mm/2" External thread | 248 | 0295F | 0,19 |
| Liner pools | d 50 mm/2" External thread | 48 | 0330 | 0,38 |

#0330

NEW

## INLET NOZZLE MULTIFLOW

Material ABS plastic, inlet nozzle for prefabricated pools, meets standard DIN EN 16582-1 / 4.5.2.2
3 x 7.95 mm holes in the ball, with seals & nuts,
color: white, also available individually.

Compliant with DIN EN 16582-1

#0331

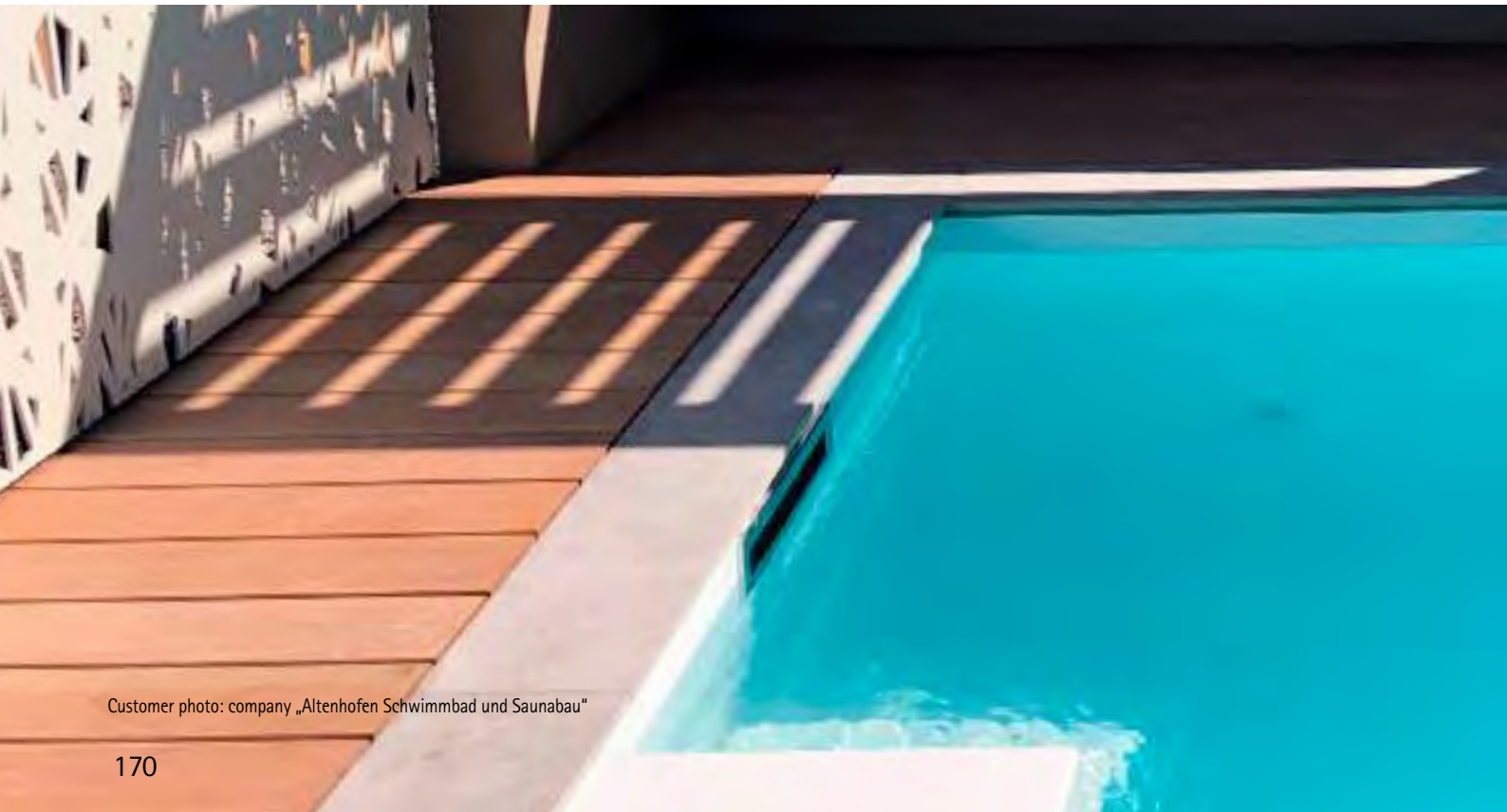
| Suitable for | Connections | Packing | Code |
|---|---|---|---|
| Liner / prefabricated pools | d 7,95 mm | 48 | 0331 |

## MULTIFLOW-ADJUSTER

For simple regulating of flow rate at the inlet nozzle, suitable only for multiflow type adjustable.

#0299

| Article | Packing | Code | kg |
|---|---|---|---|
| Multiflow-adjuster, blue | 1 | 0299 | 1,0 |


Customer photo: company „Altenhofen Schwimmbad und Saunabau"

## 2" GROUND INLET NOZZLE ADJUSTABLE

Made of ABS, 360° regulation of the fresh water flow, **for concrete pools** max. recommended flow rate is 12,0 m³/h, chemical resistant, supplied with gaskets & bolts, **for liner/prefabricated pools** additionally with flange, connections inside with bonded socket joint d = 50 mm and outside 2" External thread, color: white.

2825

2825F

| Suitable for | Connections | Packing | Code | kg |
|---|---|---|---|---|
| Concrete pools | d 50 mm/2" External thread | 48 | 2825 | 0,45 |
| Liner/prefabricated pools | d 50 mm/2" External thread | 48 | 2825F | 0,45 |

## 2" WALL CONDUIT OF PVC

**For concrete pools,** 300 mm long, rear side 2" external thread, color: grey.

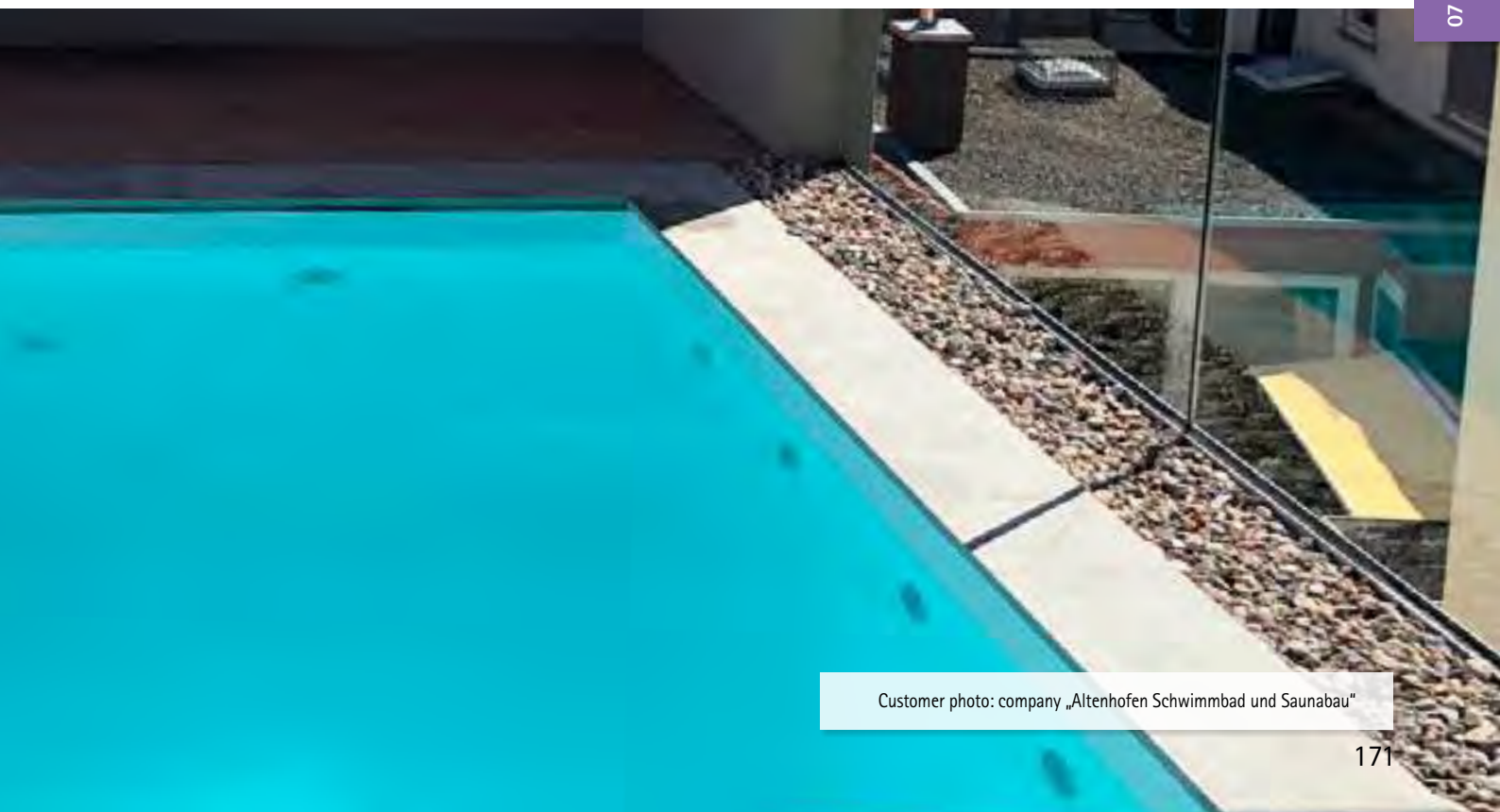
| Front side | Packing | Code | kg |
|---|---|---|---|
| 2" Internal thread connection | 48 | 0324 | 0,5 |

## 2" FLOOR DRAIN

Made of ABS, Ø 170 mm, **for concrete pools**, with side 2" IG-connection, cover is detachable, max. flow rate 15 m³/h, min. 2 floor drains per pool are recommended, supplied with gaskets & bolts, **for liner/prefabricated pools** additionally with flange, color: white.

| Suitable for | Connections | Packing | Code | kg |
|---|---|---|---|---|
| Concrete pools | 2" IG | 8 | 1467 | 1,6 |
| Liner/prefabricated | 2" IG | 8 | 1467F | 1,0 |





Customer photo: company „Altenhofen Schwimmbad und Saunabau"

# 08

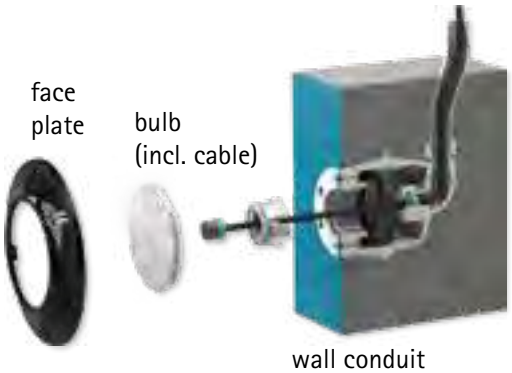
# LIGHTING

*In the evening, the light comes on in your pool and creates an atmospheric ambience in the garden! With our modern LED illuminants you put your pool in the right light.*
*At MIDAS you get modern and energy-efficient LED lights. Extensive accessories, such as various panels, wall bushings, controls and matching transformers are also available.*

## OVERVIEW


| | |
|---|---|
| 174 | Adagio[PRO] LED Lights |
| 175 | Spectra LED Lights |
| 176 | Adagio[PRO] Wall Conduits |
| 177 | Adagio[PRO] Face Plates |
| 179 | Control system Link-Touch |
| 180 | Controls for Adagio[PRO] and LED Replacement Lamp |
| 181 | LED Replacement Bulbs |
| 182 | LED Underwater Lights |
| 184 | Conduit Cable, Cable for Underwater Lights, Deck Box, Transformers |

# ADAGIO$^{PRO}$ LED LIGHTS



ADAGIO$^{PRO}$ underwater lights impress with their ultra-flat design and high luminosity. The click system makes the installation quick and easy. Face plates are available in different materials and shapes.
No niche is necessary. Remote control can synchronise the lights and give different white tones and selectable 11 RGB modes.

- 3 available bulb diameters: 50 mm, 100 mm and 170 mm
- can be installed in most 1½" wall conduits
- the 170mm version is fully compatible with PAR56 niche
- resin filled NoAir™ housing: impossible for water to infiltrate the light
- the use of high quality polymers makes the light salt electrolysis compatible
- detachable, 4 m rubber cable 2 x 1 mm² (50 mm and 100 mm), 4 m rubber cable 2 x 1,5 mm² (170 mm) included
- programmable - cold white
  - normal white
  - warm white
  - 11 RGB color modes with smooth transitions
- dimming possibility (100 %, 75 %, 50 %)
- very wide beam angle to avoid dark spots in the pool
- easy to install
- 116° beam angle
- protection class IP65 measured at a depth of 3 m
- water temperature from –5°C to +40 °C
- suitable for all types of pools
- DMX512 and RS-485 suitable in combination with #RCO-150 and #RC-150
- same color gradient after renewed reconnection or after power interruptions
- lens: matt

170 mm

## ADAGIO$^{PRO}$ LED BULB – PAR 56 *

long lifetime LEDs: > 50.000 hours, also available separately

| Diameter | Color | LED quantity | Lumen Lm | Performance | Packing | Code |
|---|---|---|---|---|---|---|
| 170 mm | white 5.000 K | 128 | 5.500 | 60 W/12 V | 6 | 675-W |
| 170 mm | warm white 3.300 K | 128 | 4.950 | 60 W/12 V | 6 | 675-WW |
| 170 mm | RGB | 3 x 32 | 3.600 | 75 W/12 V | 6 | 675-RGB |

100 mm

## ADAGIO$^{PRO}$ LED BULB *

long lifetime LEDs: > 50.000 hours, > 50,000 hours, also available separately

| Diameter | Color | LED quantity | Lumen Lm | Performance | Packing | Code |
|---|---|---|---|---|---|---|
| 100 mm | white 5.000 K | 64 | 2.600 | 30 W/12 V | 6 | 676-W |
| 100 mm | warm white 3.300 K | 64 | 2.350 | 30 W/12 V | 6 | 676-WW |
| 100 mm | RGB | 3 x 16 | 1.800 | 45 W/12 V | 6 | 676-RGB |
| 50 mm | white 5.000 K | 16 | 750 | 6 W/12 V | 6 | 677-W |
| 50 mm | warm white 3.300 K | 16 | 680 | 6 W/12 V | 6 | 677-WW |
| 50 mm | RGB | 3 x 8 | 600 | 10 W/12 V | 6 | 677-RGB |

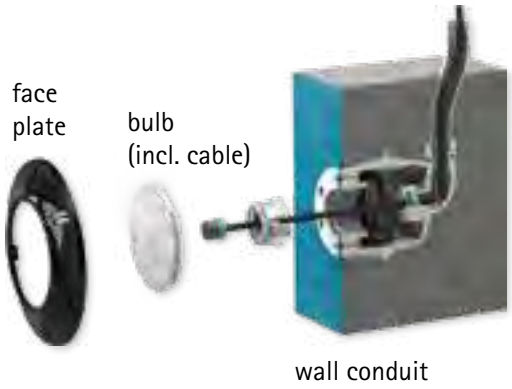
50 mm

* Matching aperture selection see catalog page 177

# SPECTRA LED LIGHTS

SPECTRA underwater lights convince with their ultra-flat design, high luminosity and very even pool illumination. Several lights can be operated in parallel with each other. Wall bushings allow quick and easy installation. Shutters in many materials and shapes refine these underwater lights. With just one click on your remote, you give your pool a completely different look - you may select from different white tones as well as 11 other RGB colors.

- 3 diameters available: 50 mm, 100 mm and 170 mm
- suitable for most 1½" wall feedthroughs
- 170mm version: compatible with PAR56 recessed box
- resin-filled NoAir™ package: no water penetration
- suitable for use with high quality polymers for salt electrolysis
- detachable, 2 m cable 2 x 1 mm² included
- programmable (RGB): - cold white
  - neutral white
  - warm white
  - 11 RGB colors with smooth transitions
- very wide beam angle 120° for optimal pool illumination
- easy to install
- degree of protection IP68 (measured at 3 m depth), protection class III
- water temperature from -5 °C to +40 °C
- suitable for all types of pools
- suitable for salt electrolysis (high quality polymer)
- same color gradient after renewed reconnection or after power interruptions
- lens: clear



## SPECTRA LED BULB – PAR 56*

long lifetime LEDs: > 30.000 hours, also available separately

| Diameter | Color | LED quantity | Lumen Lm | Performance | Packing | Code |
|---|---|---|---|---|---|---|
| 170 mm | cool white or warm white oder blau 3.000 K-6500 K | 128 | 2.100 | 24,5 W/12 V | 6 | 655-W |
| 170 mm | RGB | 3 x 32 | 2.100 | 24,5 W/12 V | 6 | 655-RGB |

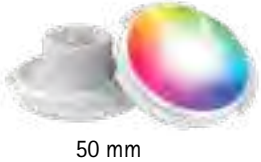
170 mm

## SPECTRA LED BULB*

long lifetime LEDs: > 30.000 hours, also available separately

| Diameter | Color | LED quantity | Lumen Lm | Performance | Packing | Code |
|---|---|---|---|---|---|---|
| 100 mm | cool white or warm white oder blue 3.000 K -6.500 K | 64 | 1.300 | 13,5 W/12 V | 6 | 656-W |
| 100 mm | RGB | 3 x 16 | 1.300 | 13,5 W/12 V | 6 | 656-RGB |
| 50 mm | cool white or warm white oder blue 3.000 K -6.500 K | 16 | 450 | 4,5 W/12 V | 6 | 657-W |
| 50 mm | RGB | 3 x 8 | 450 | 4,5 W/12 V | 6 | 657-RGB |

100 mm



50 mm

* Matching aperture selection see catalog page 177

# ADAGIO$^{PRO}$ AND SPECTRA WALL CONDUITS

Depending on the length of the wall bushing, 50-100 cm of cable can be stored inside, also available individually.

#670, #671

#672, #673

#674

#675

| | 670 | 671* | 672 | 673 | 674 | 675 |
|---|---|---|---|---|---|---|
| Length | 129,5 mm | 254 mm | 152 mm | 276 mm | 160 mm | 130 mm |
| Material | ABS plastic | ABS plastic | ABS plastic | ABS plastic | ABS plastic | Stainless steel V4A / AiSi 316L |
| Connection | 3/4" Flexrohr | 3/4" Flexrohr | 50/63 mm | 50/63 mm | 3/4" Flexrohr | 3/4" Flexrohr |
| Seal | Cable gland | Cable gland | - | - | Cable gland | Cable gland |
| For concrete, tile and liner pools | ✓ | ✓ | ✓ | ✓ | - | - |
| For prefabricated, wood and steel wall pools | | | | | ✓ | ✓ |
| For polystyrene pools | ✓ | | ✓ | ✓ | | ✓ |
| Including flange, seal, screws | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Including lock nut | - | - | - | - | ✓ | - |
| Incl. 3/4" flex tube | ✓ | ✓ | - | - | ✓ | ✓ |
| Packing | 6 | 6 | 6 | 6 | 6 | 6 |
| **Gross Price €** | | | | | | |

* not suitable for polystyrene stones

## TOOL SET FOR ADAGIO$^{PRO}$

Easy fixing of light module in face plate, easy fixing of cable gland, easy guiding of cables with cable puller, free when buying 2 or more lamps.

| Article | Packing | Code | kg | |
|---|---|---|---|---|
| Tool set for ADAGIO Pro | 1 | 691 | 0,3 | free |

# ADAGIO$^{PRO}$ AND SPECTRA FACE PLATES

#687, #688, #689

## Model FLAT, material: stainless steel AISI 316L

| Diameter | Color | Packing | Code | kg |
|---|---|---|---|---|
| 280 mm | polished silver | 6 | 687 | 2,48 |
| 185 mm | polished silver | 6 | 688 | 1,05 |
| 128 mm | polished silver | 6 | 689 | 0,70 |

#695, #696, #686

## Model FLAT, material: polymer, also available individually

| Diameter | Material/Color | Packing | Code | kg |
|---|---|---|---|---|
| 256,5 mm | white | 6 | 695 | 1,5 |
| 168,5 mm | white | 6 | 696 | 1,5 |
| 128 mm | white | 6 | 686 | 0,40 |

#680, #681

## Model RA, material: stainless steel AISI 316L

| Diameter | Color | Packing | Code | kg |
|---|---|---|---|---|
| 250 mm | polished silver | 6 | 680 | 2,48 |
| 176 mm | polished silver | 6 | 681 | 1,05 |

## Model RA, material: polymer

| Diameter | Color | Packing | Code | kg |
|---|---|---|---|---|
| 250 mm | white | 6 | 678 | 0,92 |
| 250 mm | anthracite | 6 | 682 | 0,92 |
| 250 mm | sand | 6 | 683 | 0,92 |
| 176 mm | white | 6 | 679 | 0,56 |
| 176 mm | anthracite | 6 | 684 | 0,56 |
| 176 mm | sand | 6 | 685 | 0,56 |

#678, #679

#682, #684

#683, #685

#664, #667

Model RD, material: polymer

| Diameter | Color | Packing | Code | kg |
|---|---|---|---|---|
| 250 mm | white | 6 | 664 | 0,92 |
| 250 mm | anthracite | 6 | 665 | 0,92 |
| 250 mm | sand | 6 | 666 | 0,92 |
| 176 mm | white | 6 | 667 | 0,56 |
| 176 mm | anthracite | 6 | 668 | 0,56 |
| 176 mm | sand | 6 | 669 | 0,56 |

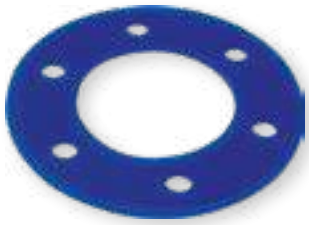
## Spare parts ADAGIO$^{PRO}$

#675-E1

### ADAGIO$^{PRO}$ connection kit

Consisting of: 1½" sleeve, pinch seal and contact plug

| Article | Packing | Code |
|---|---|---|
| ADAGIO$^{PRO}$ connection kit 50-100 mm | 1 | 675-E1 |
| ADAGIO$^{PRO}$ connection kit170 mm | | 675-E2 |



#670-E1

### ADAGIO$^{PRO}$ Flat gasket silicone

90 x 47 x 2 mm, blue, for flange / wall duct

| Article | Packing | Code |
|---|---|---|
| ADAGIO$^{PRO}$ Flat gasket silicone | 6 | 670-E1 |
| Flange seal foam rubber, black | 10 | 674-E1 |

| Article | Packing | Code |
|---|---|---|
| Screw set (6 pcs.) For Wall bushings / flange 5 x 20 mm made of stainless steel V4A | 6 | 670-E5 |

for wall ducts / lock nut, black

| Article | Packing | Code |
|---|---|---|
| Flat seal silicone, blue | 6 | 674-E2 |

Kundenfoto: Firma Brandt Gartenbau- und Naturstein GmbH

# CONTROL SYSTEM

## LINK-TOUCH CONTROL SYSTEM

- portable controller for pool lighting and cover
- with high-frequency connection (wireless)
- for a stable connection with pool lighting, and the pool cover
- can also be used in cellars and technical rooms with a long range
- simple operation thanks to clear presentation
- including life-long battery (30 days standby)
- rechargeable via USB connection
- including wall bracket (can be connected directly to a power source or freestanding installation)
- dimensions: 186 x 88 x 17 mm,
- degree of protection IP20
- only for AdagioPro RGB LED, see catalog page 174

**Note:**

- control is a requirement #RC-151 / #RCO-150
- for connection to the heat pump connection module #3601, see catalog page 77, is required
- temperature display on the Link Touch only possible with connector #3601

| Article | Code |
|---|---|
| Link-touch control system **RGB** only for LEDs and pool cover | 3603 |

Kundenfoto: Firma Brandt Gartenbau- und Naturstein GmbH

# CONTROLS FOR ADAGIO[PRO] AND SPECTRA

#RCO-100

#RC-100

## CONTROLS FOR ADAGIO PRO, SPECTRA, PLS56 AND PLW56 SERIES

Base station with signal receiver, 230V AC input,
2 outputs for pool cover, garden lighting, etc.,
incl. remote control black/blue for switching the lamps on and off and changing the color mode.
Protection: IP54, protection class II,
permissible ambient air temperature: 0 to 40°C
#RCO-100 without transformer
#RC-100 including transformer

| for | Packing | Dimensions | Trafo | Code |
|---|---|---|---|---|
| AdagioPro / PLS56-/PLW56-Series | 1 | 150 x 157 x 51 mm | – | RCO-100 |
| AdagioPro / PLS56-/PLW56-Series | 1 | 195 x 194 x 90 mm | 200 VA* | RC-100 |

* incl. 12 V output for LED headlights

NEW

#RCO-150

#RC-151

As above, but as intelligent control for ADAGIO[PRO] RGB with dimming function (100% - 75% - 50%) as well as other connections possible via DMX 512,
RS485, CAN BUS and SD card slot,
incl. DIP-switch to select the Control function and remote control black/red
A maximum of 16 LEDs can be synchronized.
#RCO-150 without transformer
#RC-151 including transformer

| for | Packing | Dimensions | Trafo | Code |
|---|---|---|---|---|
| AdagioPro/PLS56-/PLW56-Serie | 1 | 150 x 157 x 51 mm | – | RCO-150 |
| AdagioPro/PLS56-/PLW56-Serie | 1 | 298 x 420 x 145 mm | 3 0 VA* | RC-151 |

* incl. 12 V output for LED headlights

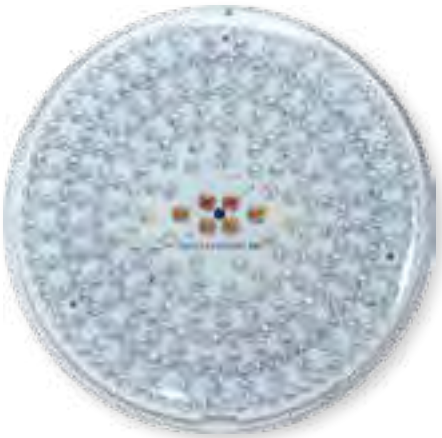
## WIRELESS REMOTE CONTROL

| Article | Packing | Code |
|---|---|---|
| Wireless remote control with exchangeable keyboard (black/red and black/blue) | 1 | RCTX |

# LED REPLACEMENT BULB

## LED REPLACEMENT BULB

PAR 56 WHITE



- break-proof polycarbonate
- flat design
- white / RGB LED replacement lamp
- high light intensity
- suitable for all UWS PAR 56
- lifespan> 25,000 hours
- incl. 4 m connection cable 2 x 1 mm²
- waterproof potted, 120 ° beam angle
- degree of protection IP68 measured at a depth of 1 m
- max. Water temperature +35 ° C
- color temperature 9,000 K
- also available individually

**Optional controls on catalog page 180**

| Color | LED quantity | Lumen | Performance | Packing | Code | kg |
|---|---|---|---|---|---|---|
| White | 324 | 1.850 Lm | 19W/12V | 6 | PLW56-400 | 0,22 |
| White | 531 | 2.100 Lm | 28W/12V | 6 | PLW56-700 | 0,27 |
| RGB | 324 | 925 Lm | 21W/12V | 6 | PLS56-400 | |
| RGB | 531 | 1.450 Lm | 25W/12V | 6 | PLS56-700 | |

## LED REPLACEMENT LIGHT

PAR56

The rear curvature, as with the classic General Electric PAR56 lamp, enables quick and straightforward replacement with all commercially available 300 W PAR56 bulbs on the market.

**Note:** The controller is used to control the RGB # 470
# RC-100 or # RCO-100 required (see catalog page 180)

The signals for the RGB bulb are transmitted via the cable - this ensures problem-free and stable control and synchronicity in the color gradients.
With other cheap RGB available on the market with enclosed radio remote control, where the signal receiver is located in the lamp (no external control), problems with control and synchronicity often occur.
Compatible e.g. with headlights # 493-TO and # 442-TO (see catalog page 182).
Also available individually.

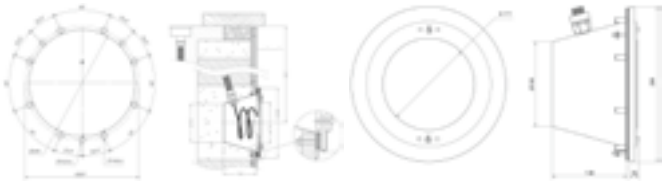
| Color | Number of LED | Lumen approx | Kelvin approx | Power | Packing | Code |
|---|---|---|---|---|---|---|
| RGB | 252 | 450 | - | 18W/12V | 12 | 470 |
| warmweiß | 352 | 1.650 | 3500 | 25W/12V | 12 | 474 |
| weiß | 352 | 1.650 | 6500 | 25W/12V | 12 | 476 |

# UNDERWATER LIGHTS

#491-MP

## UNDERWATER LIGHT COMPLETELY MADE OF STAINLESS STEEL (V4A / AISI 316)

The LED with aperture is only 16 mm away from the inside of the tank and is therefore very flat and shapely.
Including cover ring and built-in pot, with seals and screws for liner/prefabricated basins.
Including fixation for LED.
Supplied without connection cable and lamp.
Please order cable protection tube ¾" separately (#441-3TM, see page 184).
Matching LED: #PLW56 and PLS56 on page 181.

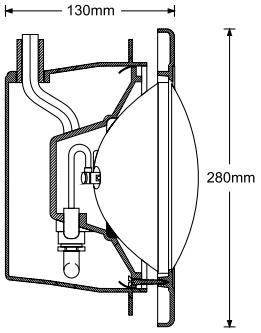


| Article | Packing | Code |
|---|---|---|
| Liner pools | 1 | 491-MP |
| Bolt set ready-made basin for # 491-MP | 1 | 491-E1 |

#491-TO

## UNDERWATER LIGHT COMPLETE STAINLESS STEEL (V4A/AISI 316)

All stainless steel V4A/AISI 316, complete with cover and built-in niche.
Light 300W, PAR56 GE with 2.5 m cable 2x4 mm².
Please order conduit cable separately (#441-3TM).
Only for concrete pools.
Dimensions see below.




*Dimensions for products with item no.:*
#441-TM
#442-TM
#483-TM
#493-TM
#481-TM

| For pool type | Packing | Code | kg |
|---|---|---|---|
| Concrete pool | 4 | 481-TO | 2,7 |

#493-TO

## UNDERWATER LIGHT ABS, FACE RIM STAINLESS STEEL (V4A/AISI 316)

Classic version for liner / prefabricated pools, complete with cover ring made of stainless steel (V4A / AISI 316) and installation pot made of ABS,
installation pot optionally with side or floor exit,
PAR56, with 2.5m cable 2 x 4 mm², please order cable protection tube ¾" separately #441-3TM, (see catalog page 184),
#493-TO: LED #470, #473, #474 and #476 can be used
(see catalog page 181), protection class IP68, also available individually.

| For pool type | Packing | Code | kg |
|---|---|---|---|
| Liner / prefabricated pools, **without** bulb 300 W | 4 | 493-TO | 3,0 |

## UNDERWATER LIGHT ABS

Classical version, complete with cover and niche made of ABS, niche optional with side or bottom output. Light 300W, PAR56 GE with 2.5 m cable 2x4mm², also separately available. Please order cable protection tube ¾" separately (#441-3TM, see page 184). Dimensions see above.

#442-TO

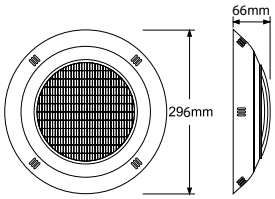
| For pool type | Packing | Code | kg |
|---|---|---|---|
| Liner-/Prefabricated pools with flange, **without** bulb | 4 | 442-TO | 2,30 |

| Spare part | Packing | Code |
|---|---|---|
| Replacement cover ABS for headlights 441 and 442 | 1 | 442-E2 |

## UNDERWATER LIGHT EXTRA FLAT

#HT1000

ABS, **for concrete and liner pools,** no niche required! ABS, cover glass made of unbreakable polycarbonate. Halogen lights are equiped with 4 colored lenses in colors red, green, blue or yellow. LED lights have an integrated RGB-color changing program. Protection class IP 65, incl. 3,4 m cable 2 x 1,5 mm². Wall connection kit for easy installation, without remote control. Diameter: 296 mm, Depth: 66 mm.




| For pool type | Packing | Bulbs | Code | kg |
|---|---|---|---|---|
| Concrete pool | 4 | Halogen 100 W/12V | HT1000 | 1,2 |
| Concrete pool RGB | 4 | 100 LED's 50 W/12V | HT1001 | 1,3 |
| Liner pool | 4 | Halogen 100 W/12V | HF1000 | 2,0 |
| Liner pool RGB | 4 | 100 LED's 50 W/12V | HF1001 | 1,4 |



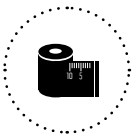
## UNDERWATER LIGHT HALOGEN WITH NICHE

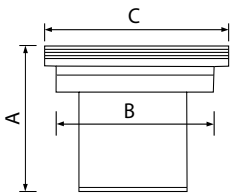
#1788

Small compact underwater light, **for concrete and liner pools,** complete ABS with niche. For **liner-/prefabricated** pools, with flange, sealing and stainless steel screws. Halogen bulb 50 W/12 V, incl. 2,5 m cable 2 x 1,5 mm².

| For pool type | Packing | Code | kg |
|---|---|---|---|
| Concrete pool | 4 | 17885 | 1,3 |
| Liner-/Prefabricated pool | 4 | 17886 | 1,3 |

| Art. / Code | A (mm) | B (mm) | C (mm) |
|---|---|---|---|
| # 17885 | 123,00 | 163,20 | 147,00 |
| # 17886 | 127,30 | 147,00 | 163,20 |





# GENERAL ACCESSORIES

## CABLE CONDUIT

Suitable for all PAR 56 underwater lights, connection ¾" AG, Length 1 m, color: white.

| Article | Packing | Code | kg |
|---|---|---|---|
| Cable conduit, 1 m, color: white | 50 | 441-3TM | 0,22 |

## CABLE H07RN-F FOR UNDERWATER LIGHTS

Rubber connection cable, flexible, 450/750 V, temperature range: -7 - +60 ° C, oil-resistant, flame-retardant, UV-resistant, 1000 VAC protected, can be used for short-circuit and earth-proof installations in accordance with IEC 60364-5-52 / HD 60364- 5-52 / VDE 0100 Part 520. In accordance with EN 50565-2, compliant with EU Directive 2014/35 / EC (Low Voltage Directive), with <HAR> harmonization label, 50 m castors, color: black.

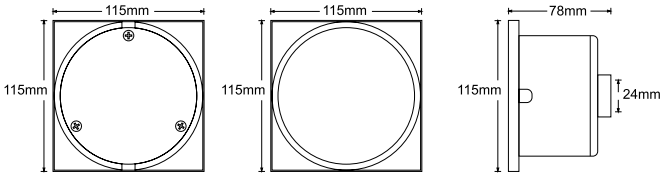
| Article | Outside Ø | Packing | Code |
|---|---|---|---|
| Cable 2 x 2,5 mm² | 10,2 - 11,7 mm | 1 | 639 |
| Cable 2 x 4,0 mm² | 11,8 - 13,4 mm | 1 | 638 |
| Cable 3 x 6,0 mm² | 14,1 - 15,9 mm | 1 | 637 |

Customer photo: company Firma Depotec GmbH

## DECK BOX

Available in 3 types:
- ABS, cable conduit 2 x ¾"
- stainless steel V2A/AISI 304, round, d: 12 cm, cable conduit 2 x ¾"
- stainless steel V2A/AISI 304, quadrate, dimensioning: 12,4 x 12,4 cm, cable conduit 2 x ¾"

### DIMENSIONING DECK BOX (ABS)




| Type | Packing | Code | kg |
|---|---|---|---|
| ABS | 40 | 417-TN | 0,3 |

## TRANSFORMERS

Compound-insulated transformers for pool lighting. Protection class II - IP 65.
Pursuant to EN 61558-2-6. Thermal protection: thermal fuse return 130 °C.

| Performance | Packing | for 12 V bulbs | Code | kg |
|---|---|---|---|---|
| 50 VA | 1 | 1 x 50 W | 458 | 1,0 |
| 100 VA | 1 | 1 x 100 W | 459 | 1,8 |
| 100 VA | 1 | 2 x 50 W | 455 | 2,7 |
| 150 VA | 1 | 1 x 150 W | 461 | 2,8 |
| 150 VA | 1 | 2 x 75 W | 465 | 2,8 |
| 300 VA | 1 | 1 x 300 W | 456 | 4,3 |
| 350 VA | 1 | 2 x 175 W | 462 | 4,4 |
| 600 VA | 1 | 2 x 300 W | 457 | 8,7 |

# 457

Customer photo: company Firma Depotec GmbH

09

# FITTINGS & INSTALLATION ACCESSORIES

*No pool is like the other. Certified, flexible, high-quality pool hoses protect the underground installation from leakage and are therefore very popular. High-quality molded parts made of PVC-U, perfectly matched to one another and connected with state-of-the-art adhesive, ensure permanent, elastic and safe piping. MIDA.Fix = our polymer-based sealant and adhesive for above and underwater applications is definitely part of the tooling.*

## OVERVIEW


| | |
|---|---|
| 188 | MIDA.Flo Rotary Disc Valves, MIDAS 3-ways Ball Valve<br>3-way Rotary Disc Valve Electric |
| 189 | Equipment for Solar |
| 190 | MIDAS 2-way Ball Valves, Butterfly Valves, MIDAS Check Valves |
| 191 | PVC-U Assortement |
| 199 | Flanges, Sealings |
| 200 | fitt b-active Plasticized Hard PVC Hose |
| 201 | Chlorine-Resistant Tube, PVC Adhesive Hose |
| 202 | Pipes PN 10, PN 16 |
| 203 | Glue, Cleaner, Accessories |

## MIDA.FLO

2- & 3-WAYS ROTARY DISC VALVES

- 2- and 3-way rotary disc valve
- 4 screws with nuts (not self-tightening)
- pressure-resistant lid and turntable set of Ultranyl
- housing made of PVC-U
- 10 bar working pressure, 15 bar test pressure
- low pressure drop
- Adhesive connections inside 50 mm, 63 mm outside
- color: black

### ADVANTAGES COMPARED WITH ONE BALL VALVE

- three sizes in a valve
- adjustable positions
- access from above

### MIDA.FLO 2-WAYS VALVE

### MIDA.FLO 3-WAYS VALVE

| Type | adjustable positions | Packing | Code | kg |
|---|---|---|---|---|
| 2-way-valve | 10 | 8 | 301 | 0,67 |
| 3-way-valve | 19 | 8 | 306 | 0,75 |

## MIDAS 3-WAYS BALL VALVE

PVC-U, EPDM-seal, HDPE-shell, slip connection, 10 bar working pressure, color: grey.

| d | Length in mm | Packing | Code | kg |
|---|---|---|---|---|
| 50 | 240 | 4 | 3395-T | 0,53 |

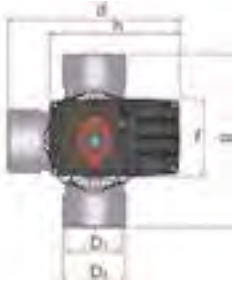
## 3-WAY ROTARY DISC VALVES PVC-U ELECTRIC

WITH SLIP CONNECTION - ELECTRIC OPERATED

Electric 3-way control valve, PVC-U with rotary damper. Including display which show the closed path. In the automatic valve the way can be selected between 90° and 180°. Color: black.

### 230 VOLT

| d1-d2 | Code | kg |
|---|---|---|
| 50-63 | 41863 | 1,78 |
| 63-75 | 41864 | 2,40 |



| d1-d2 | a (mm) | d (mm) | f (mm) | h (mm) |
|---|---|---|---|---|
| 50-63 | 159 | 183 | 94 | 159 |
| 63-75 | 210 | 209 | 94 | 159 |

## 2-WAY MOTOR VALVE FOR SOLAR INSTALLATIONS, IP 65

Made in Germany

Engine valve d 50 mm and d 63 mm, 24 V or 230 V for the connection to solar control units. The unit is controlled by a separate filter or solar control (available on request). In conjunction with an engine valve, a water and solar sensor and a control of the solar operation, the collectors of swimming pools are controlled automatically. 2 x glue sleeve, 2 x nut, 2 x d 50 mm or d 63 depending on the model (Protection IP 65). Color: black.

| Article | Code | kg |
|---|---|---|
| 2-Way-Motor-Valve 230 V, d 50 mm | 48.330 | 1,10 |
| 2-Way-Motor-Valve 230 V, d 63 mm | 48.327 | 1,50 |
| 2-Way-Motor-Valve 24 V, d 50 mm | 48.336 | 1,10 |
| 2-Way-Motor-Valve 24 V, d 63 mm | 48.337 | 1,50 |

## TEMPERATURE / SOLAR CONTROLLER

Made in Germany

Temperature control unit for heating the pool with a heat exchanger or a solar installation (motor valve 230 V or solar pump max. 1500 W), temperature regulation scale: 0-40°C, IP 40, incl. water sensor (solar sensor optional).

| Article | Code | kg |
|---|---|---|
| Temperature / Solar Controller | 49.227 | 0,70 |

## SOLAR CONTROLLER

Made in Germany

Compact analogue solar control unit incl. a 2-way ball valve 230 V, temperature regulation scale: 16-36°C, IP 40, incl. water + solar sensor, color: grey.

| Article | Ø | Code | kg |
|---|---|---|---|
| Solar Controller | 50 mm | 49.235 | 2,50 |
| Solar Controller | 63 mm | 49.236 | 2,90 |

## ACCESSORIES / SPARE PARTS (#49.227, #49.235 and #49.236)

| Article | Code | kg |
|---|---|---|
| Solar sensor with 10 m cable | 51.500 | 0,40 |
| Water sensor with 5 m cable | 51.501 | 1,00 |

## SWING CHECK VALVE

Material: PVC-U, EPDM O-ring, minimum space required for installation, easy installation between flanges, vertical and horizontal installation possible, excellent flow characteristics, Housing and damper plate made of PVC-U, plug / screw made of PP, housing seal and valve seal made of EPDM / Viton, also separately available, color: grey.

- working pressure: 0,2 bar

| d | DN | Inch | PN | Packing | Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2" | 10 | 15 | 890 | 0,27 |
| 75 | 65 | 2½" | 10 | 10 | 891 | 0,32 |
| 90 | 80 | 3" | 10 | 8 | 892 | 0,40 |
| 110 | 100 | 4" | 10 | 5 | 893 | 0,58 |
| 125 | 110 | 4" | 10 | 5 | 894 | 0,68 |
| 140 | 125 | | 10 | 10 | 895 | 0,82 |
| 160 | 150 | | 10 | 5 | 896 | 0,96 |
| 225 | 200 | | 6 | 3 | 898 | |

NEW

## MIDAS 2-WAYS BALL VALVE

Material: PVC-U, with EPDM seal, adhesive connection on both sides, 10 bar operating pressure, color: gray.

### TEFLON-BALL SEALING

| d | Length in mm | Packing | Code |
|---|---|---|---|
| 50 | 149 | 16 | 395-P |
| 63 | 174 | 16 | 396-P |

| d | PN | Length in mm | Packing | Code | kg |
|---|---|---|---|---|---|
| 32 | 10 | 124 | 16 | 393-IC | 0,36 |
| 40 | 10 | 142 | 6 | 394-IC | 0,49 |
| 50 | 10 | 167 | 16 | 395-IC* | 0,75 |
| 6 | 10 | 198 | 12 | 396-IC* | 1,07 |
| 75 | 10 | 232 | 4 | 397-IC | 3,55 |
| 90 | 10 | 269 | 2 | 398-IC | 4,25 |

### PE-BALL SEALING

| d | PN | Length in mm | Packing | Code | kg |
|---|---|---|---|---|---|
| 32 | 10 | 124 | 10 | 393-C | 0,35 |
| 40 | 10 | 134 | 6 | 394-C | 0,45 |
| 50 | 10 | 148 | 16 | 395-C* | 0,72 |
| 63 | 10 | 168 | 12 | 396-C* | 1,07 |
| 75 | 10 | 232 | 4 | 397-C | 2,55 |
| 90 | 10 | 269 | 2 | 398-C | 4,25 |
| 110 | 10 | 275 | 2 | 399-C | 4,50 |

## BUTTERFLY VALVE

CLASSIC

Material: PVC-U, Ideal for flow control using minimal piping space, minimum pressure loss, low maintenance, resistance to many inorganic chemicals, good flow properties, good mechanical strength. One piece of PVC-U body, new disc design, sizes from 63 mm to 225 mm, rubber seal EPDM.

color: grey

| d | PN | Packing | Code | kg |
|---|---|---|---|---|
| 63-75 | 10 | 2 | 8614* | 1,65 |
| 90 | 10 | 2 | 8615* | 1,90 |
| 110 | 10 | 2 | 8616* | 2,60 |
| 125-140 | 10 | 2 | 8617* | 3,50 |
| 160 | 10 | 2 | 8618* | 4,55 |
| 200-225 | 10 | 2 | 8619* | 7,35 |

## MIDAS CHECK VALVES

Material: PVC-U, Spring-loaded glue connection on both sides, color: grey.

| d | PN | Length in mm | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 16 | 140 | 6 | 384-C | 0,55 |
| 50 | 16 | 160 | 12 | 385-C* | 0,72 |
| 63 | 16 | 190 | 10 | 386-C* | 1,20 |
| 75 | 10 | 232 | 4 | 387-C | 2,33 |
| 90 | 10 | 269 | 2 | 388-C | 3,40 |
| 110 | 10 | 279 | 2 | 389-C | 4,20 |

# PVC-U ASSORTEMENT

## ELBOW 90°

SLIP CONNECTION / SLIP CONNECTION

Material: PVC-U, color: grey.

1) kiwa

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 55 | 814[1)] | 0,10 |
| 50 | 40 | 16 | 60 | 815[1)]* | 0,17 |
| 63 | 50 | 16 | 36 | 816* | 0,30 |
| 75 | 65 | 16 | 21 | 817[1)] | 0,44 |
| 90 | 80 | 16 | 12 | 819 | 0,67 |
| 110 | 100 | 16 | 14 | 811 | 1,21 |
| 125 | 110 | 16 | 10 | 01721 | 1,84 |
| 140 | 125 | 16 | 5 | 01722 | 2,42 |
| 160 | 150 | 10 | 4 | 01723 | 2,70 |
| 200 | 175 | 10 | 3 | 01724 | 5,00 |
| 225 | 200 | 10 | 2 | 01725 | 6,90 |

## REDUCING ELBOW 90°

SLIP CONNECTION X – SLIP CONNECTION

Material: PVC-U, color: grey.

| d x D – d1 | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 x 50 - 40 | 40 | 16 | 70 | 02237 | 0,16 |
| 63 x 63 - 50 | 50 | 16 | 32 | 02238 | 0,31 |

## ELBOW 45°

SLIP CONNECTION / SLIP CONNECTION

Material: PVC-U, color: grey.

1) kiwa

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 60 | 824[1)] | 0,08 |
| 50 | 40 | 16 | 80 | 825* | 0,05 |
| 63 | 50 | 16 | 45 | 826* | 0,15 |
| 75 | 65 | 16 | 25 | 827[1)] | 0,35 |
| 90 | 80 | 16 | 15 | 829[1)] | 0,60 |
| 110 | 100 | 16 | 16 | 821 | 0,95 |
| 125 | 110 | 16 | 12 | 01755 | 1,47 |
| 140 | 125 | 16 | 8 | 01756 | 1,85 |
| 160 | 150 | 10 | 5 | 01757 | 2,08 |
| 200 | 175 | 10 | 4 | 01758 | 3,68 |
| 225 | 200 | 10 | 2 | 01759 | 5,25 |

## REDUCING ELBOW 45°

SLIP CONNECTION – SLIP CONNECTION

Material: PVC-U, color: grey.

| d x D – d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 x 50 - 40 | 40 | 16 | 90 | 02241 | 0,15 |
| 63 x 63 - 50 | 50 | 16 | 45 | 02242 | 0,29 |

kiwa Quality tested by:
Kiwa Germany, Construction and Building Materials Testing Division

* Purchase only in full packaging units.

## ELBOW 90°

SLIP CONNECTION / THREADED CONNECTION

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 x 1¼" | 32 | 10 | 50 | 01731 | 0,10 |
| 50 x 1½" | 40 | 10 | 28 | 01732 | 0,20 |
| 63 x 2" | 50 | 10 | 16 | 01733 | 0,36 |
| 75 x 2½" | 65 | 10 | 9 | 22596 | 0,44 |
| 90 x 3" | 80 | 10 | 6 | 22597 | 0,75 |
| 110 x 4" | 100 | 10 | 3 | 22598 | 1,17 |

## ELBOW 90° REINFORCED

SLIP CONNECTION / THREADED CONNECTION

Material: PVC-U and stainless steel, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 20 x 1½" | 15 | 16 | 130 | 01740 | 0,5 |

## ELBOW 90°

INTERNAL THREAD / INTERNAL THREAD

Material: PVC-U, color: grey.

| threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 1½" | 40 | 10 | 28 | 01738 | 0,20 |

## ELBOW 90°

SLIP CONNECTION / EXTERNAL THREAD

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 x 1½" | 40 | 10 | 80 | 02239 | 0,13 |
| 63 x 2" | 50 | 10 | 42 | 02240 | 0,24 |

## BOW 90°

SLIP CONNECTION / SLIP CONNECTION

Material: PVC-U, color: grey.

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 25 | 01970 | 0,18 |
| 50 | 40 | 16 | 30 | 01971* | 0,30 |
| 63 | 50 | 16 | 15 | 01972* | 0,55 |
| 75 | 65 | 16 | 8 | 01973 | 0,90 |
| 90 | 80 | 16 | 4 | 05331 | 1,55 |
| 110 | 100 | 16 | 4 | 05332 | 3,15 |
| 125 | 110 | 10 | 5 | 05333 | 3,30 |
| 140 | 125 | 10 | 4 | 05334 | 3,40 |
| 160 | 150 | 10 | 4 | 05335 | 5,03 |
| 200 | 175 | 4 | 1 | 05336 | 8,40 |
| 225 | 200 | 4 | 1 | 05337 | 12,00 |

* Purchase only in full packaging units.

## Y-PIECE

3 SLIP CONNECTION

Material: PVC-U, color: grey.

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 30 | 864 | 0,18 |
| 50 | 40 | 16 | 32 | 865* | 0,29 |
| 63 | 50 | 16 | 18 | 866* | 0,51 |
| 75 | 65 | 16 | 11 | 867 | 0,74 |
| 90 | 80 | 16 | 6 | 869 | 1,20 |
| 110 | 100 | 16 | 7 | 861 | 2,13 |

## CROSS PIECE

4 SLIP CONNECTION

Material: PVC-U, color: grey.

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 30 | 844 | 0,17 |
| 50 | 40 | 16 | 32 | 845* | 0,30 |
| 63 | 50 | 16 | 16 | 846* | 0,54 |
| 75 | 65 | 16 | 12 | 847 | 0,62 |
| 90 | 80 | 16 | 12 | 849 | 1,01 |
| 110 | 100 | 16 | 6 | 841 | 1,77 |

## T-90°

3 SLIP CONNECTION

Material: PVC-U, color: grey.

1) kiwa

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 40 | 834[1)] | 0,13 |
| 50 | 40 | 16 | 48 | 835* | 0,24 |
| 63 | 50 | 16 | 24 | 836* | 0,23 |
| 75 | 65 | 16 | 15 | 837[1)] | 0,60 |
| 90 | 80 | 16 | 8 | 839 | 1,03 |
| 110 | 100 | 16 | 10 | 831 | 1,77 |

## T-90° REDUCING

2 SLIP CONNECTION / INTERNAL THREAD

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 x 1¼" | 40 - 32 | 10 | 24 | 01855 | 0,22 |
| 50 x 1" | 40 - 25 | 10 | 24 | 01856 | 0,22 |
| 50 x ¾" | 40 - 20 | 10 | 24 | 01857 | 0,22 |
| 50 x ½" | 40 x 15 | 10 | 24 | 01858* | 0,22 |
| 63 x 1½" | 50 - 40 | 10 | 13 | 01859 | 0,34 |
| 63 x 1¼" | 50 - 32 | 10 | 14 | 01860 | 0,39 |
| 63 x 1" | 50 - 25 | 10 | 15 | 01861 | 0,39 |
| 63 x ¾" | 50 - 20 | 10 | 15 | 01862 | 0,38 |
| 63 x ½" | 50 - 15 | 10 | 15 | 01863 | 0,37 |

kiwa Quality tested by:
Kiwa Germany, Construction and Building Materials Testing Division

* Purchase only in full packaging units.

## T-90°

2 SLIP CONNECTION / INTERNAL THREAD

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 x 1¼" | 32 | 10 | 19 | 01799 | 0,16 |
| 50 x 1½" | 40 | 10 | 21 | 01800* | 0,26 |
| 63 x 2" | 50 | 10 | 12 | 01801 | 0,47 |

## T-90° REDUCED

3 SLIP CONNECTION

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 x 40 | 40 - 32 | 16 | 48 | 8504 | 0,22 |
| 50 x 32 | 40 - 25 | 16 | 48 | 8503 | 0,22 |
| 50 x 25 | 40 - 20 | 16 | 54 | 01822 | 0,21 |
| 50 x 20 | 40 - 15 | 16 | 56 | 01823 | 0,30 |
| 63 x 50 | 50 - 40 | 16 | 27 | 8635 | 0,37 |
| 63 x 40 | 50 - 32 | 16 | 28 | 8634 | 0,38 |
| 63 x 32 | 50 - 25 | 16 | 30 | 01826 | 0,38 |
| 63 x 25 | 50 - 20 | 16 | 30 | 01827 | 0,37 |
| 63 x 20 | 50 - 15 | 16 | 30 | 01828 | 0,36 |
| 75 x 63 | 65 - 50 | 16 | 16 | 8756 | 0,59 |
| 75 x 50 | 65 - 40 | 16 | 18 | 8755 | 0,60 |
| 75 x 40 | 65 - 32 | 16 | 18 | 01831 | 0,59 |
| 75 x 32 | 65 - 25 | 16 | 18 | 01832 | 0,58 |
| 90 x 75 | 80 - 65 | 16 | 9 | 01833 | 1,00 |
| 90 x 63 | 80 - 50 | 16 | 9 | 01834 | 1,00 |
| 90 x 50 | 80 - 40 | 16 | 9 | 01835 | 1,00 |
| 90 x 40 | 80 - 32 | 16 | 9 | 01836 | 1,02 |
| 110 x 90 | 100 - 80 | 16 | 11 | 01837 | 1,56 |
| 110 x 75 | 100 - 65 | 16 | 12 | 01838 | 1,50 |
| 110 x 63 | 100 - 50 | 16 | 12 | 01839 | 1,46 |
| 110 x 50 | 100 - 40 | 16 | 12 | 01840 | 1,46 |

## SOCKET

SLIP CONNECTION / SLIP CONNECTION

Material: PVC-U, color: grey.

1) kiwa

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 80 | 854[1)] | 0,06 |
| 50 | 40 | 16 | 56 | 855[1)]* | 0,09 |
| 63 | 50 | 16 | 34 | 856[1]* | 0,13 |
| 75 | 65 | 16 | 14 | 857[1)] | 0,28 |
| 90 | 80 | 16 | 18 | 859 | 0,46 |
| 110 | 100 | 16 | 12 | 851 | 0,75 |
| 125 | 110 | 16 | 16 | 01881 | 1,06 |
| 140 | 125 | 16 | 12 | 01882 | 1,40 |
| 160 | 150 | 10 | 6 | 01883 | 1,58 |
| 200 | 175 | 10 | 3 | 01884 | 3,07 |
| 225 | 200 | 10 | 4 | 01885 | 5,58 |

## ADAPTOR NIPPLE REINFORCED

SLIP CONNECTION / THREADED CONNECTION

Material: PVC-U and stainless steel, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 x 1½" | 40 | 16 | 56 | 01912 | 0,1 |
| 63 x 2" | 50 | 16 | 28 | 01913 | 0,1 |

* Purchase only in full packaging units.

## COVER

SLIP CONNECTION

Material: PVC-U, color: grey.

1) kiwa

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 70 | 01946[1)] | 0,04 |
| 50 | 40 | 16 | 48 | 01947[1)]* | 0,08 |
| 63 | 50 | 16 | 24 | 01948[1)]* | 0,11 |
| 75 | 65 | 16 | 32 | 01949[1)] | 0,18 |
| 90 | 80 | 16 | 16 | 01950[1)] | 0,39 |
| 110 | 100 | 16 | 9 | 01951 | 0,60 |

## ADAPTOR NIPPLE

SLIP CONNECTION / INTERNAL THREAD

Material: PVC-U, octagonal, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 - 40 x 1¼" | 32 | 10 | 40 | 02258 | 0,11 |
| 50 - 40 x 1½" | 40 | 10 | 40 | 02257* | 0,11 |
| 50 - 40 x 2" | 40 | 10 | 45 | 02256 | 0,17 |
| 63 - 50 x 1½" | 40 | 10 | 36 | 02261 | 0,16 |
| 63 - 50 x 2" | 50 | 10 | 36 | 02260 | 0,20 |
| 63 - 50 x 2½" | 50 | 10 | 24 | 02259 | 0,24 |

## ADAPTOR NIPPLE

SLIP CONNECTION / EXTERNAL THREAD

Material: PVC-U, octagonal, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 - 40 x 1" | 25 | 10 | 70 | 02087 | 0,08 |
| 50 - 40 x 1¼" | 32 | 10 | 68 | 02086 | 0,08 |
| 50 - 40 x 1½" | 40 | 10 | 68 | 02085* | 0,09 |
| 63 - 50 x 1¼" | 32 | 10 | 60 | 02090 | 0,12 |
| 63 - 50 x 1½" | 40 | 10 | 60 | 02089* | 0,13 |
| 63 - 50 x 2" | 50 | 10 | 46 | 02088* | 0,14 |
| 75 - 63 x 1½" | 40 | 10 | 30 | 02093 | 0,18 |
| 75 - 63 x 2" | 50 | 10 | 30 | 02092 | 0,18 |
| 75 - 63 x 2½" | 65 | 10 | 24 | 02091 | 0,21 |
| 90 - 75 x 2" | 50 | 10 | 24 | 02096 | 0,28 |
| 90 - 75 x 2½" | 65 | 10 | 15 | 02095 | 0,31 |
| 90 - 75 x 3" | 80 | 10 | 12 | 02094 | 0,33 |

## SOCKET

SLIP CONNECTION / EXTERNAL THREAD

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 x 1¼" | 32 | 10 | 80 | 02105 | 0,07 |
| 50 x 1½" | 40 | 10 | 72 | 02106* | 0,08 |
| 63 x 2" | 50 | 10 | 50 | 02107* | 0,14 |
| 75 x 2½" | 65 | 10 | 24 | 02108 | 0,27 |
| 90 x 3" | 80 | 10 | 28 | 02109 | 0,44 |

kiwa Quality tested by:
Kiwa Germany, Construction and Building Materials Testing Division

* Purchase only in full packaging units.

## SOCKET

SLIP CONNECTION / INTERNAL THREAD

Material: PVC-U, octagonal, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 x 1¼" | 32 | 10 | 60 | 01892 | 0,09 |
| 50 x 1½" | 40 | 10 | 56 | 01893* | 0,10 |
| 63 x 2" | 50 | 10 | 28 | 01894* | 0,20 |
| 75 x 2½" | 65 | 10 | 14 | 01895 | 0,30 |
| 90 x 3" | 80 | 10 | 24 | 01896 | 0,48 |

## PLUG

EXTERNAL THREAD

Material: PVC-U, color: grey.

| threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 1¼" | 32 | 10 | 80 | 02126 | 0,05 |
| 1½" | 40 | 10 | 60 | 02127 | 0,07 |
| 2" | 50 | 10 | 70 | 02128 | 0,11 |
| 2½" | 65 | 10 | 45 | 02129 | 0,16 |

## PRESSURE HOSE NOZZLE

Material: PVC-U, color: grey.

| D x d | PN | Packing | Code | kg |
|---|---|---|---|---|
| 16 x 16 | 10 | 200 | 02200 | 0,01 |
| 20 x 18 | 10 | 200 | 02201 | 0,01 |
| 20 x 20 | 10 | 200 | 02202 | 0,01 |
| 25 x 25 | 10 | 120 | 02203 | 0,02 |
| 32 x 30 | 10 | 80 | 02204 | 0,03 |
| 40 x 40 | 10 | 40 | 02205 | 0,05 |
| 50 x 50 | 10 | 30 | 02206 | 0,09 |
| 50 x 38 | 10 | 40 | 02207 | 0,08 |
| 63 x 60 | 10 | 18 | 02208 | 0,14 |

## PRESSURE HOSE NOZZLE

EXTERNAL THREAD

Material: PVC-U, octagonal, color: grey.

| threaded x E | PN | Packing | Code | kg |
|---|---|---|---|---|
| 1½" x 38 | 10 | 36 | 02224 | 0,08 |
| 1½" x 40 | 10 | 36 | 09032 | 0,09 |
| 1½" x 50 | 10 | 30 | 02223 | 0,10 |
| 2" x 60 | 10 | 15 | 02225 | 0,08 |

* Purchase only in full packaging units.

## REDUCTIONS SHORT

SLIP CONNECTION

Material: PVC-U, color: grey.

1) kiwa

| D x d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 x 32 | 32 | 16 | 120 | 01918[1)] | 0,02 |
| 40 x 25 | 20 | 16 | 120 | 01919 | 0,03 |
| 40 x 20 | 15 | 16 | 120 | 01920 | 0,03 |
| 50 x 40 | 32 | 16 | 60 | 01921[1)] | 0,04 |
| 50 x 32 | 25 | 16 | 60 | 01922 | 0,05 |
| 50 x 25 | 20 | 16 | 60 | 01923 | 0,05 |
| 50 x 20 | 15 | 16 | 60 | 01924 | 0,05 |
| 63 x 50 | 40 | 16 | 48 | 01925[1)]* | 0,07 |
| 63 x 40 | 32 | 16 | 40 | 01926 | 0,09 |
| 63 x 32 | 25 | 16 | 40 | 01927 | 0,08 |
| 75 x 63 | 50 | 16 | 28 | 01928[1)] | 0,09 |
| 75 x 50 | 40 | 16 | 28 | 18685 | 0,13 |
| 75 x 40 | 32 | 16 | 28 | 18686 | 0,13 |
| 90 x 75 | 65 | 16 | 36 | 01929[1)] | 0,15 |
| 90 x 63 | 50 | 16 | 36 | 18687 | 0,18 |
| 90 x 50 | 40 | 16 | 36 | 18688 | 0,19 |
| 110 x 90 | 80 | 16 | 16 | 01930 | 0,29 |
| 110 x 75 | 65 | 16 | 16 | 18689 | 0,34 |
| 110 x 63 | 50 | 16 | 16 | 18690 | 0,33 |

## REDUCTIONS LONG

SLIP CONNECTION

Material: PVC-U, color: grey.

| D - E x d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50-40 x 20 | 15 | 16 | 50 | 01982 | 0,05 |
| 50-40 x 25 | 20 | 16 | 40 | 01981 | 0,06 |
| 50-40 x 32 | 25 | 16 | 60 | 01980 | 0,07 |
| 50-40 x 40 | 32 | 16 | 30 | 01979 | 0,07 |
| 63-50 x 20 | 15 | 16 | 30 | 01987 | 0,10 |
| 63-50 x 25 | 20 | 16 | 30 | 01986 | 0,10 |
| 63-50 x 32 | 25 | 16 | 30 | 01985 | 0,10 |
| 63-50 x 40 | 32 | 16 | 46 | 01984 | 0,12 |
| 63-50 x 50 | 40 | 16 | 20 | 01983 | 0,14 |
| 75-63 x 32 | 25 | 16 | 40 | 01991 | 0,13 |
| 75-63 x 40 | 32 | 16 | 40 | 01990 | 0,14 |
| 75-63 x 50 | 40 | 16 | 40 | 01989 | 0,18 |
| 75-63 x 63 | 50 | 16 | 26 | 01988 | 0,18 |
| 90-75 x 40 | 32 | 16 | 24 | 01995 | 0,22 |
| 90-75 x 50 | 40 | 16 | 48 | 01994 | 0,23 |
| 90-75 x 63 | 50 | 16 | 34 | 01993 | 0,40 |
| 90-75 x 75 | 65 | 16 | 12 | 01992 | 0,33 |
| 110-90 x 50 | 40 | 16 | 27 | 01999 | 0,43 |
| 110-90 x 63 | 50 | 16 | 27 | 01998 | 0,46 |
| 110-90 x 75 | 65 | 16 | 18 | 01997 | 0,53 |
| 110-90 x 90 | 80 | 16 | 16 | 01996 | 0,58 |

kiwa Quality tested by:
Kiwa Germany, Construction and Building Materials Testing Division

* Purchase only in full packaging units.

## DOUBLE NIPPLE

EXTERNAL THREAD / EXTERNAL THREAD

Material: PVC-U, octagonal, color: grey.

| threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 1½" | 40 | 10 | 36 | 02116 | 0,07 |

## UNIONS 3-PARTS

2 SLIP CONNECTION

color: grey

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 40 | 874 | 0,17 |
| 50 | 40 | 16 | 30 | 875* | 0,19 |
| 63 | 50 | 16 | 12 | 876* | 0,37 |
| 75 | 65 | 16 | 16 | 877 | 0,58 |
| 90 | 80 | 16 | 12 | 879 | 0,84 |
| 110 | 100 | 16 | 5 | 871 | 1,64 |

## UNION PARTS

SLIP CONNECTION / EXTERNAL THREAD WITH EPDM O-RING

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 x 1¼" | 32 | 10 | 36 | 02356 | 0,19 |
| 50 x 1½" | 40 | 10 | 30 | 02357* | 0,22 |
| 63 x 2" | 50 | 10 | 12 | 02358* | 0,43 |
| 75 x 2½" | 65 | 10 | 16 | 02359 | 0,51 |
| 90 x 3" | 80 | 10 | 10 | 02360 | 1,00 |
| 110 x 4" | 100 | 10 | 4 | 02361 | 1,69 |

## UNION PARTS

SLIP CONNECTION / EXTERNAL THREAD WITH ADDITIONAL EPDM O-RING

Material: PVC-U, color: grey.

| d x threaded | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 50 x 1½" | 40 | 16 | 30 | 07716 | 0,25 |
| 50 x 2" | 40 | 16 | 12 | 26638 | 0,05 |
| 63 x 2" | 50 | 16 | 12 | 07717 | 0,70 |

## UNION PARTS

SLIP CONNECTION / INTERNAL THREAD WITH EPDM O-RING

Material: PVC-U, color: grey.

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 x 1¼" | 32 | 10 | 40 | 02339 | 0,17 |
| 50 x 1½" | 40 | 10 | 30 | 02340* | 0,21 |
| 63 x 2" | 50 | 10 | 12 | 02341* | 0,40 |
| 75 x 2½" | 65 | 10 | 16 | 02342 | 0,59 |

* Purchase only in full packaging units.

# FLANGES, SEALINGS

## INSERT PART SLIP CONNECTION (COLLAR BUSH)

Material: PVC-U, color: grey.

| d | DN | PN | Packing | Code | kg |
|---|---|---|---|---|---|
| 40 | 32 | 16 | 60 | 02175 | 0,05 |
| 50 | 40 | 16 | 50 | 02176* | 0,05 |
| 63 | 50 | 16 | 60 | 02177* | 0,08 |
| 75 | 65 | 16 | 35 | 02178 | 0,16 |
| 90 | 80 | 16 | 18 | 02179 | 0,21 |
| 110 | 100 | 16 | 10 | 02180 | 0,47 |

## LAPPED FLANGE

Material: PVC-U, color: grey.

| d | Number of holes | Ø mm hole | hole circle mm | flange PN | Packing | Code | kg |
|---|---|---|---|---|---|---|---|
| 50 | 4 | 18 | 110 | 16 | 16 | 02032* | 0,26 |
| 63 | 4 | 18 | 125 | 16 | 16 | 02033* | 0,31 |
| 75 | 4 | 18 | 145 | 16 | 16 | 02034 | 0,47 |
| 90 | 8 | 18 | 160 | 16 | 16 | 02035 | 0,50 |
| 110 | 8 | 18 | 180 | 16 | 16 | 02036 | 0,58 |

## FIXED FLANGE WITH COLLAR BUSH AND SLIP CONNECTION

Material: PVC-U, color: grey.

| d | Number of holes | Ø mm hole | hole circle mm | Packing | Code | kg |
|---|---|---|---|---|---|---|
| 50 | 4 | 18 | 110 | 16 | 22565* | 0,26 |
| 63 | 4 | 18 | 125 | 16 | 22566* | 0,37 |
| 75 | 4 | 18 | 145 | 16 | 22567 | 0,51 |
| 90 | 8 | 18 | 160 | 16 | 22568 | 0,68 |
| 110 | 8 | 18 | 180 | 16 | 22569 | 0,88 |

## GASKET FLANGED BUSH

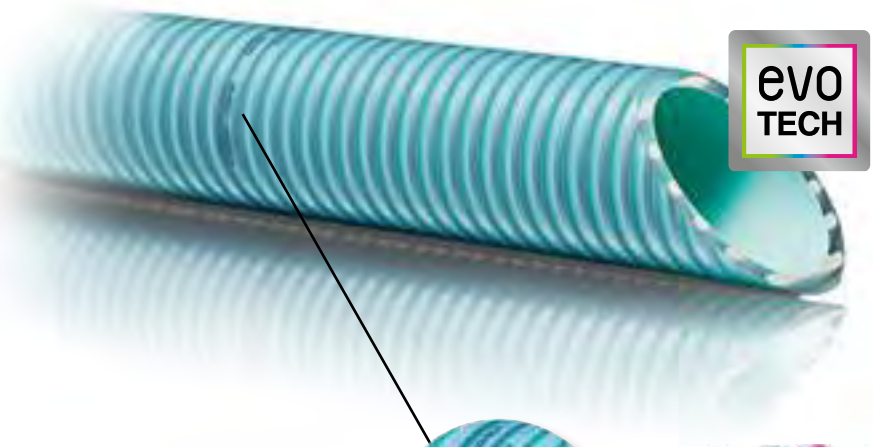
Raw material: EVA, color: transparent.

| d | Packing | Code | kg |
|---|---|---|---|
| 50 | 20 | 02061* | 0,01 |
| 63 | 20 | 02062* | 0,01 |
| 75 | 10 | 02063 | 0,02 |
| 90 | 20 | 02064 | 0,02 |
| 110 | 20 | 02065 | 0,04 |

fitt b-active

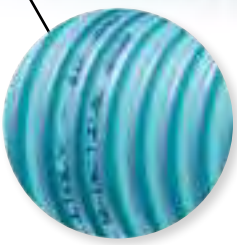
# PLASTICIZED HARD PVC HOSE

FLEXIBLE (PRICE PER ROLL)



* **INSURANCE GUARANTEE** for all damage caused by the hard PVC hose, which may occur to third parties, including removal of the defective and installation of a new plasticized hard PVC hose

**SAFE TRACEABILITY**
The marking with a transparent protective layer is permanently indelible.



temperature resistance: -10 °C to +60 °C

**SECURE DURABILITY**
The new EVO TECH technology additionally strengthens the hard spiral protective film **(Spiral Protection Barrier Technology)** and makes the hose six times more resistant than other hoses

**SECURE FLEXIBILITY**
The D-Shape spiral provides high resistance to crushing (up to 34 kN/m²), which, combined with the use of high quality materials, provides increased flexibility and a lower bend radius (up to 125mm).

**SAFE PROTECTION**
The CDS film (Chlorine Defense System) provides increased protection, even against chlorine-containing water and an acidic environment, while ensuring longevity.

color: green

Also available individually.

Performance tests (mechanical and chemical) performed internally as well as in collaboration with the University of Padua - DTG laboratory. Certified by TÜV (Test Protocol No. MEC16173.00).

Compliant with the European Directive Re. (EU) 10/2011 for simulators A-B-C.

Note: Tolerance according to UNI EN ISO 1307: 2008. The thermoplastic products are subject to external temperature and retraction deformations, the length tolerance is ± 5%.

| Ø (outside x inside) | Operating pressure | Burst pressure | Bend radius | Length | Packing | Pallet quantity | kg | Code |
|---|---|---|---|---|---|---|---|---|
| 50 x 42 mm | 6 bar | 18 bar | 125 mm | 25 m | 1 | 12 | 18,75 | 8351 |
| 50 x 42 mm | 6 bar | 18 bar | 125 mm | 50 m | 1 | 8 | 37,50 | 8352 |
| 63 x 55 mm | 4 bar | 12 bar | 165 mm | 25 m | 1 | 6 | 24,25 | 8353 |
| 63 x 55 mm | 4 bar | 12 bar | 165 mm | 50 m | 1 | 4 | | 8354 |

## CHLORINE-RESISTANT TUBE

FLEXIBLE (PRICE PER ROLL)

Excellent handling by rigid spiral, lined with a hose protection barrier with patented Spiral Protection Barrier® coextruded in the hose. High resistance to underground loads guaranteed.

Chlorine resistant, flexible, smooth surface, mold protection, resistant to microorganisms, calibrated diameter
temperature resistance: -5 °C to +60 °C,
color: white / blue.

Complies with UNI EN ISO 3994 standard.

The TÜV approval number Z1 16 10 55285 006 is subject to constant control.
European Patent Number 2209850.

The tolerances correspond to the standard UNI EN ISO 1307: 2008.
The length tolerance is ± 5%.

| Ø (outside x inside) | Operating pressure | Burst pressure | Bend radius | Length | Packing | Pallet quantity | kg | Code |
|---|---|---|---|---|---|---|---|---|
| 50 x 42 mm | 5 bar | 15 bar | 165 mm | 25 m | 1 | 12 | 19,0 | 8301 |
| 50 x 42 mm | 5 bar | 15 bar | 165 mm | 50 m | 1 | 8 | 37,5 | 8302 |
| 63 x 55 mm | 4 bar | 12 bar | 220 mm | 25 m | 1 | 6 | 24,5 | 8303 |
| 63 x 55 mm | 4 bar | 12 bar | 220 mm | 50 m | 1 | 4 | | 8304 |
| 75 x 65 mm | 4 bar | 12 bar | 220 mm | 25 m | 1 | 4 | | 8305 |

NEW #8304 NEW #8305

## PVC ADHESIVE HOSE

FLEXIBLE (PRICE PER ROLL)

Hose for supply systems of whirlpools and swimming pools.
Externally calibrated for a perfect connection with standard connectors.
Spiral hose made of PVC, smooth inside and outside.
Material: PVC.
Temperature resistance: -5 °C to +50 °C
color: gray.

| Ø (outside x inside) | Operating pressure | Burst pressure | Bend radius | Length | Packing | Pallet quantity | kg | Code |
|---|---|---|---|---|---|---|---|---|
| 32 x 25 mm | 7 bar | 21 bar | 100 mm | 25 m | 1 | 12 | 9,6 | 8223M |
| 40 x 32 mm | 7 bar | 21 bar | 100 mm | 25 m | 1 | 16 | 12,3 | 8224M |
| 40 x 32 mm | 7 bar | 21 bar | 100 mm | 50 m | 1 | 8 | 34,0 | 8228M |
| 50 x 42 mm | 5 bar | 15 bar | 165 mm | 12 m | 1 | 16 | 8,2 | 8230M |
| 50 x 42 mm | 5 bar | 15 bar | 165 mm | 25 m | 1 | 12 | 19,0 | 8225M |
| 50 x 42 mm | 5 bar | 15 bar | 165 mm | 50 m | 1 | 8 | 36,0 | 8229M |
| 63 x 55 mm | 4 bar | 12 bar | 220 mm | 25 m | 1 | 6 | 24,0 | 8226M |
| 75 x 65 mm | 2,5 bar | 7,5 bar | 400 mm | 25 m | 1 | 3 | 33,0 | 8227M |
| 90 x 80 mm | 3 bar | 9 bar | 310 mm | 25 m | 1 | 12 | 39,0 | 8231M |

# PIPES

## PIPE PN 10 PVC-U

- for sticking
- length 5 m: one sided slip connection (price per 5 m)
- length 2,5 m: smooth ends on both sides (price per 2,5 m)

color: grey

| | d | wall thickness mm | tube length in m | Packing | Code | kg |
|---|---|---|---|---|---|---|
| tube length 2,5 m | 50 | 2,4 | 2,5 | 1 | 8195.2,5m | 1,4 |
| | 63 | 2,4 | 2,5 | 1 | 8196.2,5m | 1,5 |
| | 75 | 2,9 | 2,5 | 1 | 8197.2,5m | 1,6 |
| | 90 | 3,5 | 2,5 | 63 | 8199.2,5m | |
| tube length 5 m | 50 | 2,4 | 5 | 1 | 8195 | 2,8 |
| | 63 | 2,4 | 5 | 1 | 8196 | 3,0 |

Further diameter available on request.

## PIPE PN 16 PVC-U

- for sticking
- length 5 m: one sided slip connection (price per 5 m)
- length 2,5 m: smooth ends on both sides (price per 2,5 m)

color: grey

| | d | wall thickness mm | tube length in m | Packing | Code | kg |
|---|---|---|---|---|---|---|
| tube length 2,5 m | 50 | 3,7 | 2,5 | 1 | 8295.2,5m | 2,0 |
| | 63 | 3,8 | 2,5 | 1 | 8296.2,5m | 2,1 |
| | 75 | 4,5 | 2,5 | 1 | 8297.2,5m | 2,2 |
| | 90 | 5,4 | 2,5 | 63 | 8299.2,5m | |
| tube length 5 m | 50 | 3,7 | 5 | 1 | 8295 | 3,9 |
| | 63 | 3,8 | 5 | 1 | 8296 | 4,2 |

Further diameter available on request.

## PP PIPE CLAMP WITH STRAP

| d | Packing | Code | kg |
|---|---|---|---|
| 50 | 100 | 8215 | 0,03 |
| 63 | 50 | 8216 | 0,04 |
| 75 | 40 | 8217 | 0,07 |
| 90 | 25 | 8219 | 0,12 |

# GLUE

## MIDA FIX 3000

UNIVERSAL SEALANT AND ADHESIVE

Application for stone (non-porous), concrete, natural stone, plaster, polycarbonate, PSPU, PVC, various plastics, mirrors, glass, ceramic tiles, enamel, copper, lead, zinc, aluminum, stainless steel, wood.

Made in Germany

**FEATURES:**

- for above and below water applications
- very high mechanical strength
- for stress-compensating bonding
- free of solvents, isocyanate, phthalate and silicone
- weather and aging resistant
- resistant to salt water and chlorine
- fungus and mold retardant effect
- suitable for pond liners
- natural stone compatible
- can be recoated, painted over (with emulsion paints)
- grindable
- smell neutral
- shore hardness 60
- 300 % elongation at break (no expansion joints)
- temperature resistance of –40°C to +100°C
- permanently elastic
- fast curing
- colorfast
- no shrinkage

NEW #MF-3000A

### CONTENT: 440 GRAMM (CARTRIDGE)

| Color | Packing | Code | kg |
|---|---|---|---|
| White | 20 | MF-3000W | 0,57 |
| Grey | 20 | MF-3000G | 0,57 |
| Black | 20 | MF-3000B | 0,57 |
| Transparent | 20 | MF-3000t | 0,57 |
| adriablau | 20 | MF-3000A | 0,57 |

Made in Germany

### CONTENT: 60 GRAMM (TUBE)

– only available in 60 g –

| Color | Packing | Code | kg |
|---|---|---|---|
| white | 12 | MF-60W | 0,14 |

## GRIFFON UNI-100 PVC SOLVENT CEMENT FOR PVC

Thixotropic and fast curing adhesive for rigid PVC. For solvent cementing of pipes, sockets and fittings with small and larger adhesive gap (gap filling) in pressure and drainage systems. Suitable for diameters ≤ 315 mm, max. 16 bar (PN 16), tolerance max. 0,8 mm gap fitting / max. 0.2 mm interference fit. Features: with special brush, quick closure, quick, thixotropic, gap filling, temperature resistance 60°C, briefly up to 95°C, viscosity 2500 mPa/s, solids content: about 23%, density: 0,97 g/cm³, color: grey (transparent).

| Article | Packing | Code | kg |
|---|---|---|---|
| 125 ml Tube | 30 | 8000 | 0,125 |
| 250 ml Can with brush | 24 | 8001 | 0,25 |
| 500 ml Can with brush | 12 | 8002 | 0,50 |
| 1.000 ml Can with brush | 8 | 8003 | 1,00 |

## GRIFFON WDF-05 PVC SOLVENT CEMENT FOR FLEXIBLE HOSES AND PVC

Blue, thixotropic and very fast curing adhesive. For solvent cementing flexible hoses (PVC), tubes and pipes, sockets and fittings made of rigid PVC with small and larger adhesive gap (gap filling) in pressure and drainage systems. Extremely suitable for i.a. swimming pools, hot tubs and applications in wet environments. Suitable for diameters ≤ 160 mm, max. 16 bar (PN 16), tolerance max. 0.8 mm, Gap fitting (flexible hoses max. 0,3 mm) / max. 0,2 mm interference fit. Features: with special brush and quick closure, very fast curing, thixotropic, gap filling, temperature resistance: 60°C, peak load 95°C, viscosity: ca. 1500 mPa/s, solids content: about 17%, density: 0,99 g/cm³, color: blue (transparent).

| Article | Packing | Code | kg |
|---|---|---|---|
| 125 ml Can with brush | 10 | 8103 | 0,125 |
| 250 ml Can with brush | 12 | 8100 | 0,25 |
| 500 ml Can with brush | 12 | 8101 | 0,50 |
| 1.000 ml Can with brush | 8 | 8102 | 1,00 |

### DRYING TIMES

| Ø | 16 – 50 mm | | | 63 – 110 mm | | | 125 – 160 mm | | |
|---|---|---|---|---|---|---|---|---|---|
| °C | 5 bar | 10 bar | 16 bar | 5 bar | 10 bar | 16 bar | 5 bar | 10 bar | 16 bar |
| 5 °C–15 °C | 30 min. | 1 hour | 4 hour | 1 hour | 2 hour | 8 hour | 4 hour | 16 hour | 32 hour |
| > 15 °C | 15 min. | 30 min. | 2 hour | 30 min. | 1 hour | 4 hour | 2 hour | 8 hour | 16 hour |

## PVC GLUE BLUE

Glue for connecting piping elements from elastic PVC and rigid PVC U-PVC) used for pool installation. Suitable for water supply and discharge lines with a diameter of up to 100 mm. Does not run down on vertical surfaces.

| Article | Packing | Code |
|---|---|---|
| 125 ml can with brush | 12 | 8110 |
| 250 ml can with brush | 12 | 8111 |
| 500 ml can with brush | 12 | 8112 |
| 1000 ml can with brush | 6 | 8113 |

# CLEANER

## GRIFFON CLEANER

For cleaning and degreasing of surfaces of bonded pipes, sockets and fittings which are made of rigid PVC, PVC, CPVC and ABS. Also suitable for the removal of non-cured adhesive residues and for cleaning brushes and tools. Used in combination with Griffon Cleaner Cloth. Not suitable for dilution of PVC, CPVC and ABS glue.
Features: universal, very strong cleaning effect, viscosity: about 97 mPa/s, color: transparent.

| Article | Packing | Code | kg |
|---|---|---|---|
| 125 ml can | 20 | 8200 | 0,125 |
| 500 ml can | 12 | 8201 | 0,50 |
| 1.000 ml can | 6 | 8202 | 1,00 |

## PVC UNIVERSAL CLEANER

Fermit pool PVC Universal Cleaner improves the bonding properties by loosening the surface layer and is perfectly suitable for "pool fermit PVC Glue Blue" and "pool fermit PVC Glue PRO" glues as well as any other glue for UPVC und elastic PVC.

| Article | Packing | Code |
|---|---|---|
| 125 ml bottle | 12 | 8205 |
| 250 ml bottle | 12 | 8206 |
| 1.000 ml bottle | 6 | 8207 |

# ACCESSORIES

## LECK-FIX

Leck-Fix closes minor leaks in swimming pools made from different materials (concrete, polyester, acrylic, sealing membrane) and underground pipes. Leaks of 0.5 m3 to 0.8 m3 in pools between 50m3 and 60m3 can be treated per day (corresponds to a falling water level of approx. 2 cm in a pool of 10m x 5m). In case of bigger damage, further measures are required.

| Article | Packing | Code |
|---|---|---|
| Leck-Fix 1l | 6 | 8040 |

## PLASTIC THREAD SEALANT

Fast and clean. Thread sealant in a tube. Suitable for plastic (PVC, PVC-C, PP, ABS, PE) and mixed metal/plastic connections.

| Article | Packing | Code |
|---|---|---|
| 100g tube | 6 | 8041 |

## REPAIR COMPOUND FOR LEAKAGES

Two-component epoxy sealant in the form of modelling clay for puttying, repairing and for mounting all rigid and semi-rigid plastics. Suitable for plastics such as PVC, PVC-C, ABS (PE, PP and PTFE excepted) and most standard materials (glass, wood, metal, copper, concrete). Once cured, the product can be processed, drilled, sawn, filed and painted like metal.

| Article | Packing | Code |
|---|---|---|
| Repair compound for leakages | 6 | 8042 |

## SILICON FITTING GREASE

Fittings grease based on 100 % silicon oil and inert filler materials. For greasing stopcocks and valves in pools, irrigation systems and installations by the sea. Prevents lime deposits from water and greased parts. Water-repellent: suitable for devices transporting warm, aqueous solutions.

| Article | Packing | Code |
|---|---|---|
| 30g tube | 40 | 8044 |

## PTFE TEFLON TAPE

Thread sealing tape from 100% pure, unsintered PTFE

- prevents rust
- removable, resistant against fungal attacks

| Article | Packing | Code |
|---|---|---|
| Set of 2 each 12 m | 250 | 8043 |

## GRIFFON KOLMAT® FIBRE SEAL >180° ADJUSTABLE

Kolmat® Fibre Seal is unique when it comes to the adjustment of threaded connections. A fitting, connection, or tap can be installed in the proper position without any risk of leakage. Even when readjusted to more than 180°, the connection remains 100 % sealed.

FEATURES: universal, fibre-reinforced, adjustable > 180°, removable

| Dimensions | Packing | Code | kg |
|---|---|---|---|
| 14 mm x 15 m | 30 | 8030 | 0,15 |

## KOLMAT® PLASTIC

SEALANT FOR CONICAL AND CYLINDRICAL
SYNTHETIC THREADED CONNECTIONS

Kolmat® Plasticis a unique product for the adjustment of threaded connections, without the risk of leaks. Even when turning back to more than 180 °, the connection remains 100 % tight.
Temperature resistance: from -50 °C to +120 °C,
chemical base: silicone elastomer (alkoxy), color: white.

| Article | Packing | Code | kg |
|---|---|---|---|
| KOLMAT Plastic | 6 | 8031 | 0,4 |

## WIRE SAW FOR SAWING PLASTIC PIPES

Ideal for sawing in hard-to-reach places. For plastic pipes made of PVC, PVC-C, PP and PE. Thin rope with rough cut for and strong handles for fast applications, length: 90 cm.

| Article | Packing | Code | kg |
|---|---|---|---|
| Wire saw | 1 | 8036 | 0,4 |



## DEBURRING TOOL

FOR CHAMFERING PLASTIC PIPES

For plastic pipes made of PVC, PVC-C, ABS, PP and PE. Suitable for diameter 16 ≤ 63 mm. Creates a bevelled corner of 15 °, prevents the leakage of adhesives.

| Article | Packing | Code | kg |
|---|---|---|---|
| Deburring tool | 1 | 8035 | 0,4 |

# 10

# SPARE PARTS

*Used becomes new!*
*Extend the lifetime of the products.*
*With the MIDAS-spare parts you can renew the wearing parts in a fast and comfortable way.*

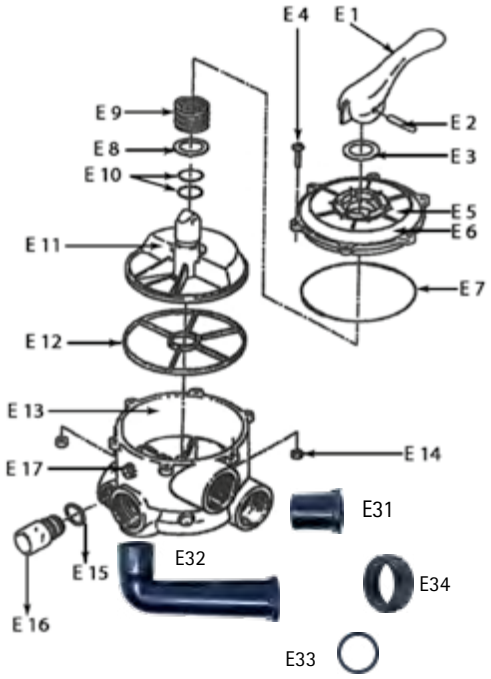
## OVERVIEW


| | |
|---|---|
| 210 | Valves |
| 214 | Heat Pumps |
| 243 | Filters |
| 247 | Jet Swim Units |
| 249 | Vacuum Heads |
| 250 | Rotary Disc Valve |

# VALVES

## MIDAS VALVE 1½"

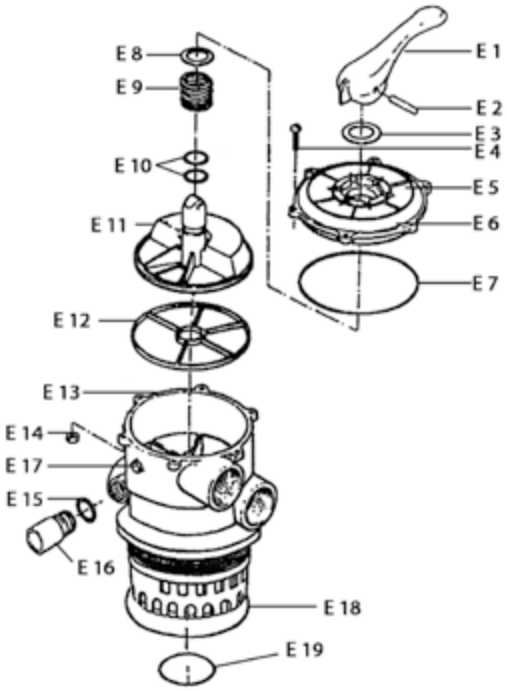
Art. 310 SIDE MOUNT




| Description | Code | Gross Price € |
|---|---|---|
| Handle | 310-E1 | on request |
| Pin (handle) | 310-E2 | on request |
| Ring | 310-E3 | on request |
| Screw M 6 x 30 | 310-E4 | on request |
| Label | 310-E5 | on request |
| Cover | 310-E6 | on request |
| Cover o-ring | 310-E7 | on request |
| Washer | 310-E8 | on request |
| Spring | 310-E9 | on request |
| Axle o-ring (2x) | 310-E10 | on request |
| Disc | 310-E11 | on request |
| Spider gasket | 310-E12 | on request |
| Body (slip or treaded) | 310-E13 | on request |
| Nut M6 | 310-E14 | on request |
| Sight glass gasket | 310-E15 | on request |
| Sight glass | 310-E16 | on request |
| Gauge nut with o-ring | 310-E17 | on request |
| Top assembly, mounted (E1-E11, less E4+E7) | 310-E50 | on request |
| Connector short | 310-E31 | on request |
| Connector 90 ° | 310-E32 | on request |
| Gasket (2 pcs.) | 310-E33 | on request |
| Nut (2 pcs.) | 310-E34 | on request |
| Complete piping kit (310-E31-310-E34) | 310-E30 | on request |

## MIDAS VALVE 1½"

Art. 312 TOP MOUNT, Art. 313 TOP MOUNT



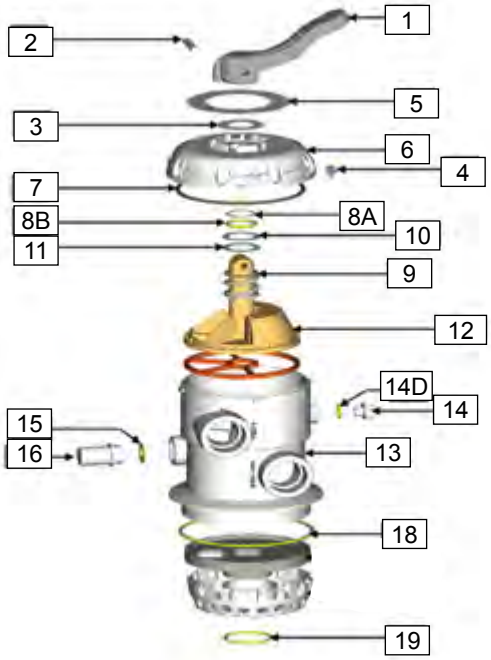

| Description | Code | Gross Price € |
|---|---|---|
| Handle | 310-E1 | on request |
| Pin (handle) | 310-E2 | on request |
| Ring | 310-E3 | on request |
| Screw M 6 x 30 | 310-E4 | on request |
| Label | 310-E5 | on request |
| Cover | 310-E6 | on request |
| Cover o-ring | 310-E7 | on request |
| Washer | 310-E8 | on request |
| Spring | 310-E9 | on request |
| Axle-o-ring (2 x) | 310-E10 | on request |
| Disc | 310-E11 | on request |
| Spider gasket | 310-E12 | on request |
| Body f. Top-Mount 1½" valve threaded, with 6" unified or buttress threads, 48,4 mm pipe conn. | 312-E13 | on request |
| Body f. Top-Mount valve 1½" valve threaded, with 6" unified or buttress threads, 50 mm pipe conn. | 312-E13/50 | on request |
| Nut M6 | 310-E14 | on request |
| Sight glass gasket | 310-E15 | on request |
| Sight glass | 310-E16 | on request |
| Gauge nut with o-ring | 310-E17 | on request |
| Filter o-ring (#312 + 313-S) (14S x 6 mm) | 312-E18 | on request |
| O-ring for center pipe 50 mm/48,4 mm | 312-E19 | on request |
| Clamp set small "S" (#313-S), not shown | 312-E20 | on request |
| Top assembly mounted (E1-E11, less E4+E7) | 310-E50 | on request |

Technical specifications are subject to change without prior notice.

## MIDA VALVE 1½"

Art. 315 SIDE MOUNT, Art. 317 TOP MOUNT

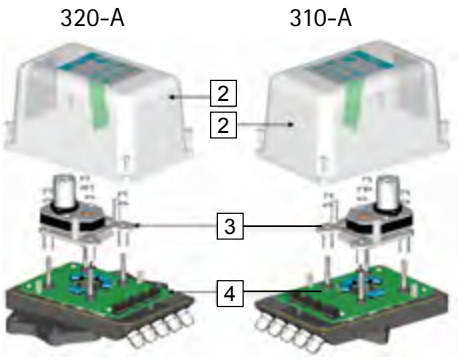
| Description | Code | Gross Price € |
|---|---|---|
| Handle | 315-E1 | on request |
| Pin (handle) | 315-E2 | on request |
| Teflon-ring (handle) | 315-E3 | on request |
| Pin (cover) | 315-E4 | on request |
| Label | 315-E5 | on request |
| Cover | 315-E6 | on request |
| Cover o-ring | 315-E7 | on request |
| Ring | 315-E8A | on request |
| Ring | 315-E8B | on request |
| Spring | 315-E9 | on request |
| Axle o-ring | 315-E10 | on request |
| Washer | 315-E11 | on request |
| Roter (disc) with spider gasket | 315-E12 | on request |
| Gauge nut | 315-E14 | on request |
| Gauge nut gasket | 315-E14D | on request |
| Sight glass gasket | 315-E15 | on request |
| Sight glass | 315-E16 | on request |
| Valve body SIDE MOUNT | 315-E13 | on request |
| Valve body TOP MOUNT #317-S | 317-S-E13 | on request |
| Top assembly, mounted | 315-E50 | on request |
| Filter o-ring #317-S (145 x 6 mm) | 317-E18 | on request |
| O-ring pipe connection | 317-E19 | on request |
| Clamp set small "S" not shown | 317-E20 | on request |

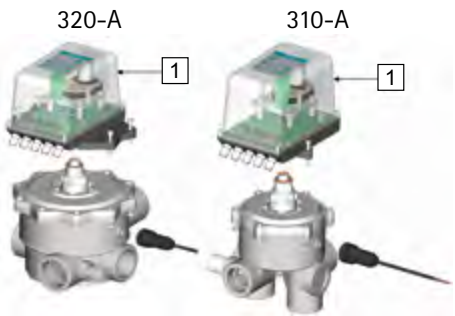


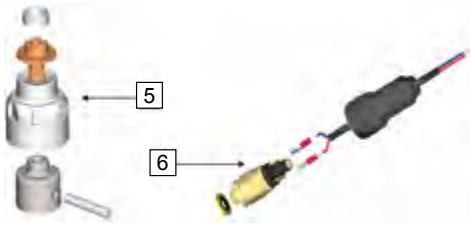

## AUTOMATIC BACKWASH VALVES

Art. 310 SIDE MOUNT, Art. 320 SIDE MOUNT

| Description | Code | Gross Price € |
|---|---|---|
| Actuator 2" MIDAS | 320-A1 | on request |
| Actuator 1½" MIDAS | 310-A1 | on request |
| Cover 1½–2" | 310-A2 | on request |
| Motor 1½–2" | 310-A3 | on request |
| Main board 1½–2" | 310-A4 | on request |
| Automatic kit | 310-A5 | on request |
| Pressure-switch 1½–2" | 310-A8 | on request |



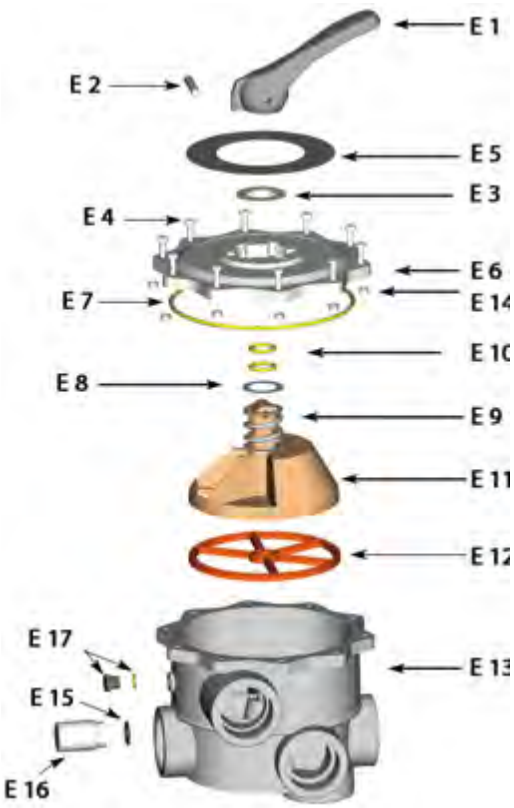






Technical specifications are subject to change without prior notice.

## MIDAS VALVE 2"

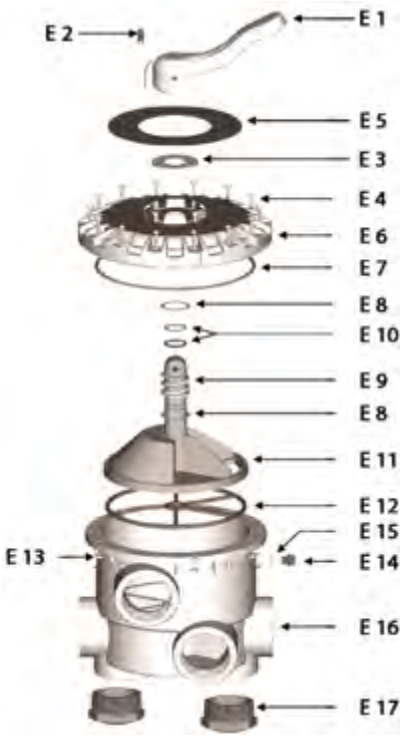
Art. 320 SIDE MOUNT




| Description | Code | Gross Price € |
|---|---|---|
| Handle | 310-E1 | on request |
| Pin (handle) | 310-E2 | on request |
| Ring | 310-E3 | on request |
| Screw (M6 x 30) | 310-E4 | on request |
| Label | 320-E5 | on request |
| Cover | 320-E6 | on request |
| Cover o-ring | 320-E7 | on request |
| Washer | 310-E8 | on request |
| Spring | 310-E9 | on request |
| Axle o-ring (2 x) | 310-E10 | on request |
| Disc | 320-E11 | on request |
| Spider gasket | 320-E12 | on request |
| Body (slip or treaded) | 320-E13 | on request |
| Nut M6 | 310-E14 | on request |
| Sight glass gasket | 310-E15 | on request |
| Sight glass | 310-E16 | on request |
| Gauge nut with o-ring | 310-E17 | on request |
| Top assembly, mounted (E1-E11, less E4+E7) | 320-E50 | on request |

## MIDAS VALVE 3"

Art. 331-OT SIDE MOUNT



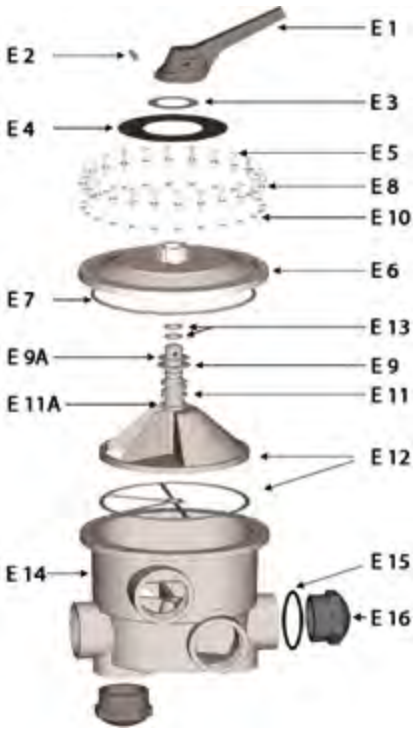

| Description | Code | Gross Price € |
|---|---|---|
| Handle | 330-E1 | on request |
| Pin (handle) | 330-E2 | on request |
| Teflon ring | 330-E3 | on request |
| Screw (M6 x 30) | 331-E4 | on request |
| Label | 331-E5 | on request |
| Cover | 331-E6 | on request |
| Cover-o-ring | 330-E7 | on request |
| O-ring | 331-E8 | on request |
| Spring | 330-E9 | on request |
| Axle-o-ring | 331-E10 | on request |
| Disc | 330-E11 | on request |
| Spider gasket | 330-E12 | on request |
| Nut M6 | 331-E13 | on request |
| Gauge nut | 331-E14 | on request |
| Gauge nut o-ring | 331-E15 | on request |
| Body | 331-E16 | on request |
| Plug | 331-E17 | on request |
| Top assembly, mounted (E1-E12, less E4+E6) | 331-E50 | on request |

Technical specifications are subject to change without prior notice.

# MIDAS VALVE 4"

Art. 380-OT SIDE MOUNT

| Description | Code | Gross Price € |
|---|---|---|
| Handle | 380-E1 | on request |
| Pin (handle) | 380-E2 | on request |
| Teflon ring | 380-E3 | on request |
| Label | 380-E4 | on request |
| Screw (M6 x 30) | 380-E5 | on request |
| Cover | 380-E6 | on request |
| Cover-o-ring | 380-E7 | on request |
| Bolt washer | 380-E8 | on request |
| Washer (E/S) | 380-E9 | on request |
| Teflon washer | 380-E9A | on request |
| Nut M6 | 380-E10 | on request |
| Spring | 380-E11 | on request |
| Washer (E/S) | 380-E11A | on request |
| Disc with spider gasket | 380-E12 | on request |
| Axle o-ring (2x) | 380-E13 | on request |
| Body | 380-E14 | on request |
| Plug o-ring | 380-E15 | on request |
| Plug | 380-E16 | on request |
| Top assembly, mounted (E1-E11, less E4+E7) | 380-E50 | on request |



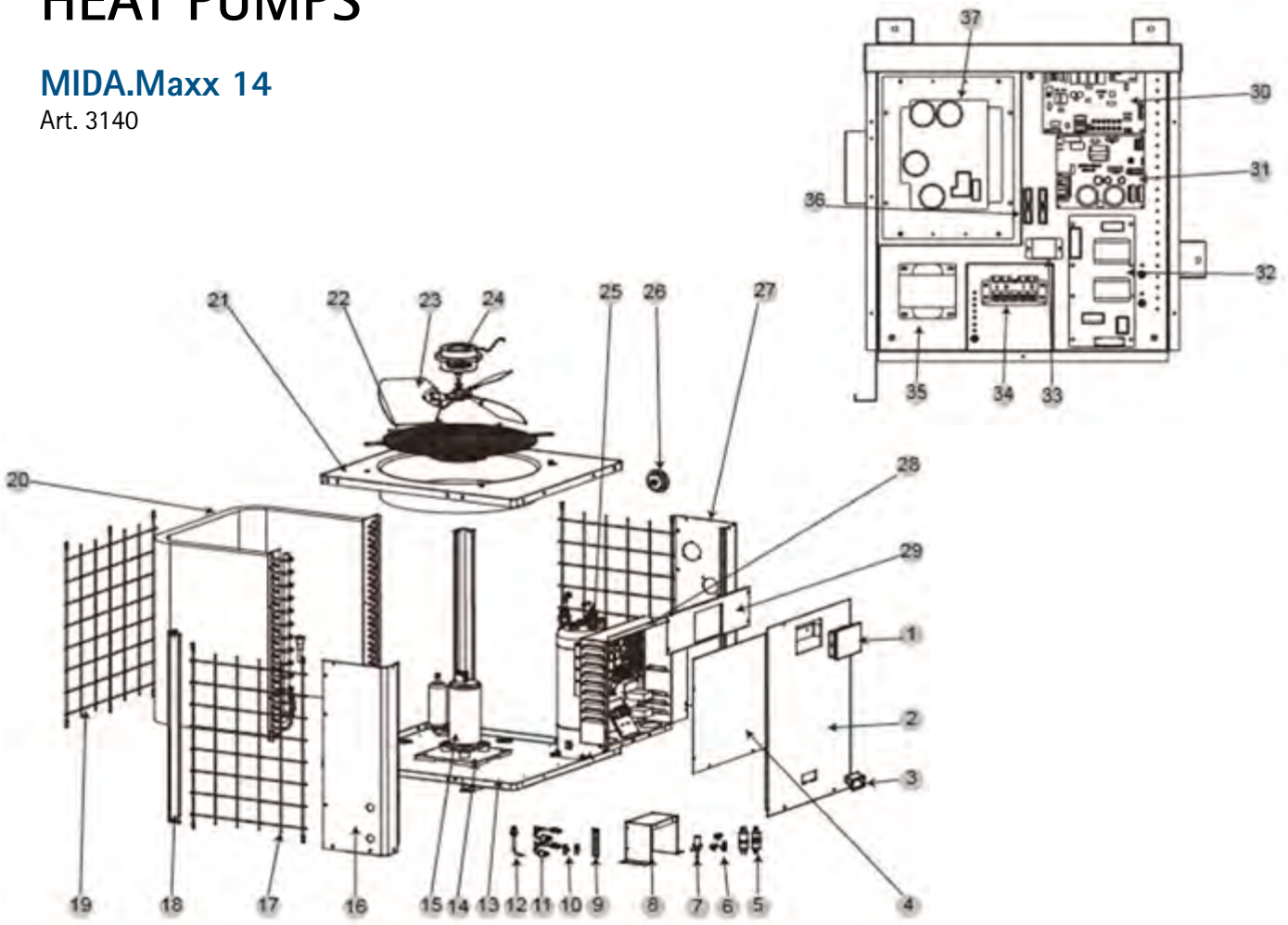



Technical specifications are subject to change without prior notice.

# HEAT PUMPS

## MIDA.Maxx 14

Art. 3140



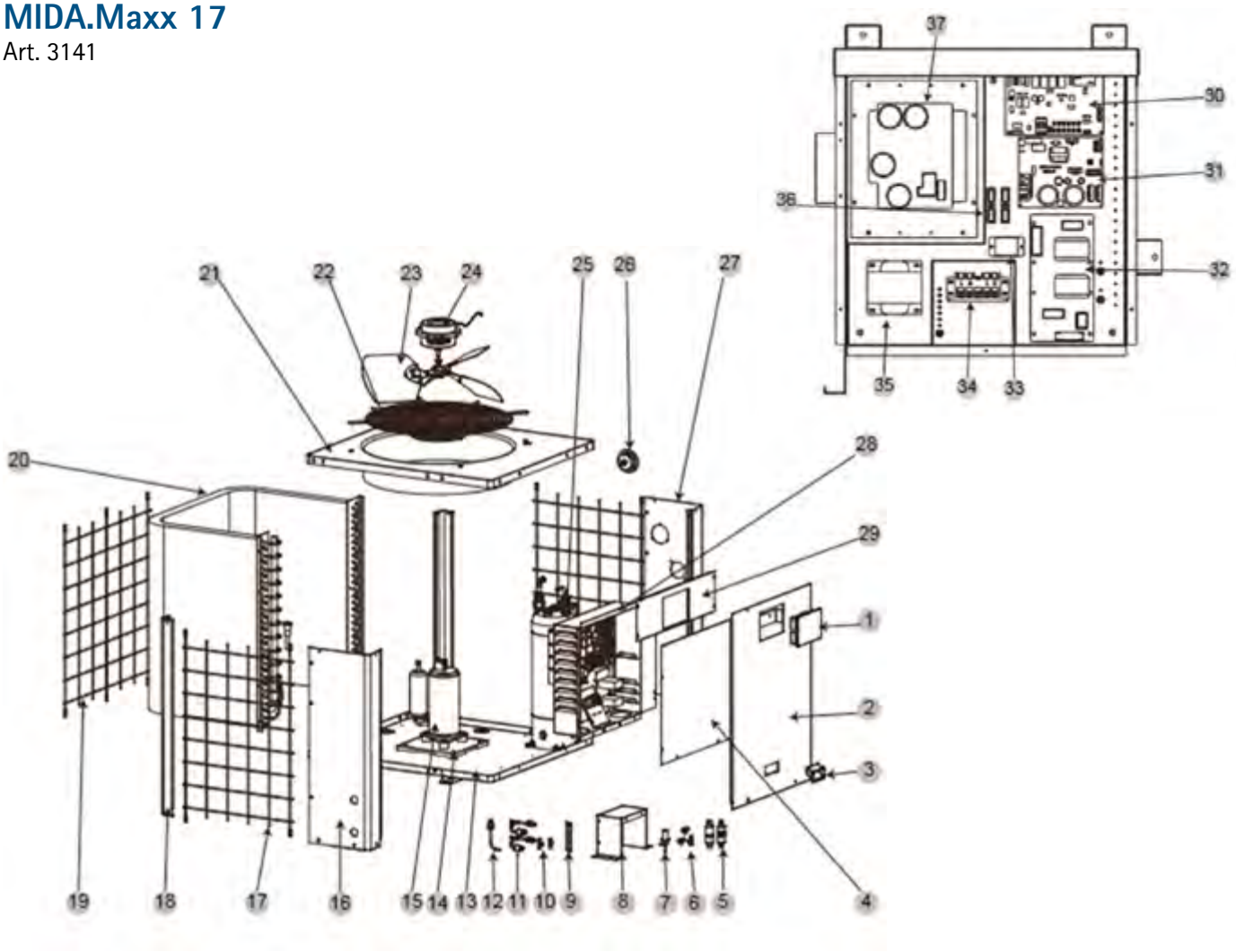

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| 5 "touchscreen display MIDAS | 2670-E30 | 1 | on request |
| Front cover | 3140-E2 | 2 | on request |
| Handle | 3140-E3 | 3 | on request |
| Cover electronics box | 3140-E4 | 4 | on request |
| Refrigerant circuit filter | 2677-E16 | 5 | on request |
| T-piece refrigerant circuit | 2675-E17 | 6 | on request |
| Electronic Expansion valve | 3140-E7 | 7 | on request |
| Control box | 3140-E8 | 8 | on request |
| Needle valve holder | 3140-E9 | 9 | on request |
| T-piece refrigerant circuit | 2675-E19 | 10 | on request |
| Needle valve | 2670-E3 | 11 | on request |
| Needle valve | 3140-E12 | 12 | on request |
| Floor pan | 3140-E13 | 13 | on request |
| Support plate | 3140-E14 | 14 | on request |
| Compressor | 3140-E15 | 15 | on request |
| Housing cover on the left | 3140-E16 | 16 | on request |
| Protective grille on the left and right | 3140-E17 | 17 | on request |
| Frame pillar at the rear | 3140-E18 | 18 | on request |
| Protection net behind | 3140-E19 | 19 | on request |
| Finned heat exchanger | 3140-E20 | 20 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Top cover | 3140-E21 | 21 | on request |
| Fan protection grille | 3140-E22 | 22 | on request |
| Fan blades Ø 522 x 140mm | 3140-E23 | 23 | on request |
| Fan motor | 3140-E24 | 24 | on request |
| Titanium heat exchanger | 3140-E25 | 25 | on request |
| Pressure gauge | 3140-E26 | 26 | on request |
| Right housing cover | 3140-E27 | 27 | on request |
| Electrical box | 3140-E28 | 28 | on request |
| Protective cover | 3140-E29 | 29 | on request |
| PC1004 board | 2762-E38 | 30 | on request |
| Fan module | 2762-E45 | 31 | on request |
| Driver filter board | 3140-E32 | 32 | on request |
| Compressor relay | 2675-E37 | 33 | on request |
| Connection terminal 5-fold | 2670-E38 | 34 | on request |
| Reactor | 3140-E35 | 35 | on request |
| Terminal 2-fold | 2670-E36 | 36 | on request |
| Frequency converter | 3140-E37 | 37 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Maxx 17

Art. 3141




| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| 5 "touchscreen display MIDAS | 2670-E30 | 1 | on request |
| Front cover | 3140-E2 | 2 | on request |
| Handle | 3140-E3 | 3 | on request |
| Cover electronics box | 3140-E4 | 4 | on request |
| Refrigerant circuit filter | 2677-E16 | 5 | on request |
| T-piece refrigerant circuit | 2675-E17 | 6 | on request |
| Electronic Expansion valve | 3141-E7 | 7 | on request |
| Control box | 3140-E8 | 8 | on request |
| Needle valve holder | 3140-E9 | 9 | on request |
| T-piece refrigerant circuit | 2675-E19 | 10 | on request |
| Needle valve | 2670-E3 | 11 | on request |
| Needle valve | 3140-E12 | 12 | on request |
| Floor pan | 3140-E13 | 13 | on request |
| Support plate | 3140-E14 | 14 | on request |
| Compressor | 3140-E15 | 15 | on request |
| Housing cover on the left | 3140-E16 | 16 | on request |
| Protective grille on the left and right | 3140-E17 | 17 | on request |
| Frame pillar at the rear | 3140-E18 | 18 | on request |
| Protection net behind | 3140-E19 | 19 | on request |
| Finned heat exchanger | 3141-E20 | 20 | on request |

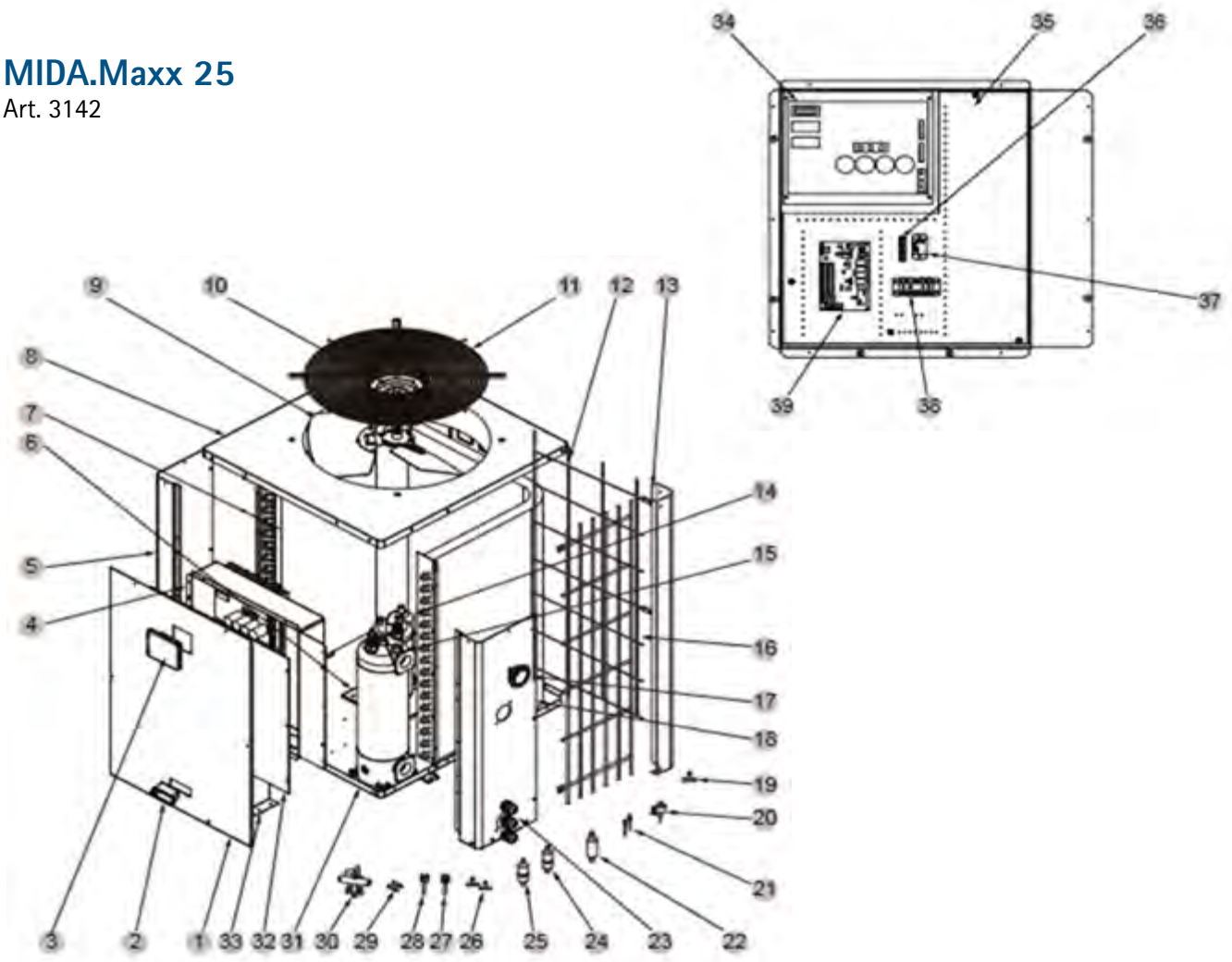
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Top cover | 3140-E21 | 21 | on request |
| Fan protection grille | 3140-E22 | 22 | on request |
| Fan blades Ø 522 x 140mm | 3140-E23 | 23 | on request |
| Fan motor | 3140-E24 | 24 | on request |
| Titanium heat exchanger | 2671-E29 | 25 | on request |
| Pressure gauge | 3140-E26 | 26 | on request |
| Right housing cover | 3140-E27 | 27 | on request |
| Electrical box | 3140-E28 | 28 | on request |
| Protective cover | 3140-E29 | 29 | on request |
| PC1004 board | 2762-E38 | 30 | on request |
| Fan module | 2762-E45 | 31 | on request |
| Driver filter board | 3140-E32 | 32 | on request |
| Compressor relay | 2675-E37 | 33 | on request |
| Connection terminal 5-fold | 2670-E38 | 34 | on request |
| Reactor | 3140-E35 | 35 | on request |
| Terminal 2-fold | 2670-E36 | 36 | on request |
| Frequency converter | 3140-E37 | 37 | on request |



Technical specifications are subject to change without prior notice.

## MIDA.Maxx 25

Art. 3142



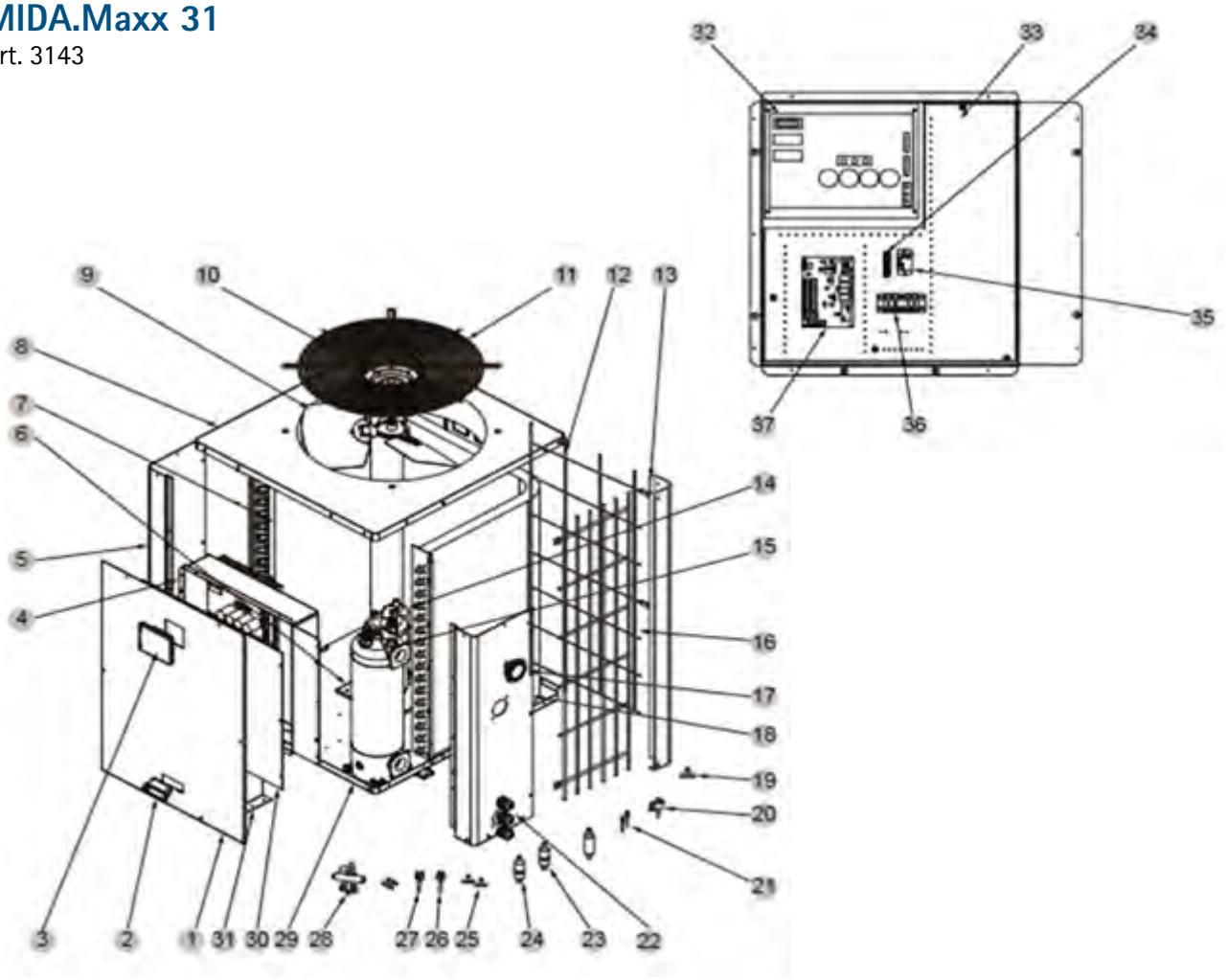

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front cover | 3142-E1 | 1 | on request |
| Handle | 3140-E3 | 2 | on request |
| 5 "touchscreen display MIDAS | 2670-E30 | 3 | on request |
| Electronics box | 3142-E4 | 4 | on request |
| Housing cover on the left | | 5 | on request |
| Spacers | 3142-E6 | 6 | on request |
| Finned heat exchanger | 3142-E7 | 7 | on request |
| Top cover | 3142-E8 | 8 | on request |
| Fan blades Ø 560x150 | 3142-E9 | 9 | on request |
| Fan motor | 3140-E24 | 10 | on request |
| Fan protection grille | 3140-E22 | 11 | on request |
| Protective grille, back | 3142-E12 | 12 | on request |
| Frame pillar at the rear | 3142-E13 | 13 | on request |
| Compressor | 3142-E14 | 14 | on request |
| Titanium heat exchanger | 3142-E15 | 15 | on request |
| Protective grille on the right | 3142-E16 | 16 | on request |
| Pressure gauge | 3140-E26 | 17 | on request |
| Housing cover right | 3142-E18 | 18 | on request |
| T-piece refrigerant circuit | 3142-E19 | 19 | on request |
| Electronic Expansion valve | 3142-E20 | 20 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Needle valve | 3140-E12 | 21 | on request |
| check valve | 3142-E22 | 22 | on request |
| Cable gland PG 21 | 3142-E33 | 23 | on request |
| Refrigerant circuit filter | 2677-E16 | 24 | on request |
| Refrigerant circuit filter | 3142-E25 | 25 | on request |
| T-piece Refrigerant circulation | 2675-E19 | 26 | on request |
| Low pressure switch | 2670-E9 | 27 | on request |
| High pressure switch | 2670-E8 | 28 | on request |
| Reducing sleeve Refrigeration cycle | 3142-E29 | 29 | on request |
| 4-way valve | 2672-E12 | 30 | on request |
| Floor pan | 3142-E31 | 31 | on request |
| Lid to the electronics box | 3142-E32 | 32 | on request |
| Frame for the electronic box | 3142-E33 | 33 | on request |
| Frequency converter | 3142-E34 | 34 | on request |
| Plate to the electronics box | 3142-E35 | 35 | on request |
| Terminal 2-fold | 2670-E36 | 36 | on request |
| Compressor relay | 2675-E37 | 37 | on request |
| Connection terminal 5-fold | 3142-E38 | 38 | on request |
| PC1004 board | 2762-E38 | 39 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Maxx 31

Art. 3143



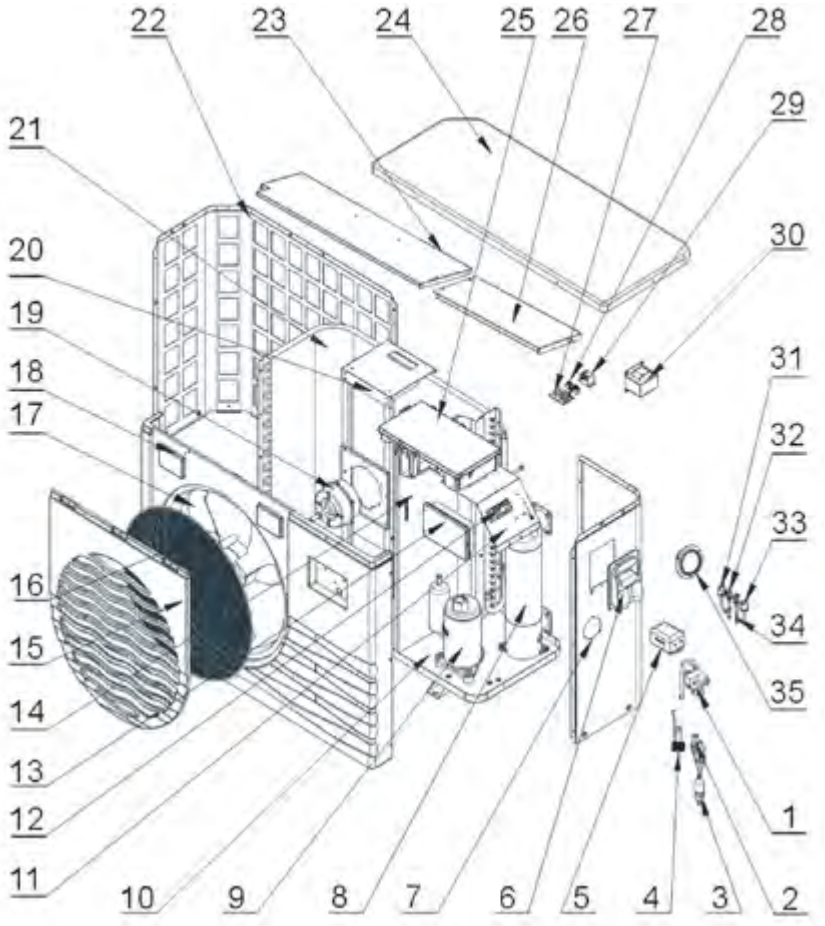

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front cover | 3143-E1 | 1 | on request |
| Handle | 3140-E3 | 2 | on request |
| 5 "touchscreen display MIDAS | 2670-E30 | 3 | on request |
| Electronics box | 3143-E4 | 4 | on request |
| Housing cover on the left | 3143-E5 | 5 | on request |
| Spacers | 3143-E6 | 6 | on request |
| Finned heat exchanger | 3143-E7 | 7 | on request |
| Top cover | 3143-E8 | 8 | on request |
| Fan blades Ø 600x150 | 3143-E9 | 9 | on request |
| Fan motor | 3143-E10 | 10 | on request |
| Fan protection grille | 3143-E11 | 11 | on request |
| Protective grille, back | 3143-E12 | 12 | on request |
| Frame pillar at the rear | 3143-E13 | 13 | on request |
| Compressor | 3143-E14 | 14 | on request |
| Titanium heat exchanger | 3143-E15 | 15 | on request |
| Protective grille on the right | 3143-E16 | 16 | on request |
| Pressure gauge | 3140-E26 | 17 | on request |
| Right housing cover | 3143-E18 | 18 | on request |
| T-piece refrigerant circuit | 2675-E19 | 19 | on request |
| Electronic Expansion valve | 2673-E28 | 20 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Needle valve | 3140-E12 | 21 | on request |
| PG 21 cable gland | 3142-E33 | 22 | on request |
| Refrigerant circuit filter | 2677-E16 | 23 | on request |
| Refrigerant circuit filter | 2677-E16 | 24 | on request |
| T-piece Refrigerant circulation | 2675-E19 | 25 | on request |
| Low pressure switch | 2670-E9 | 26 | on request |
| High pressure switch | 2670-E8 | 27 | on request |
| 4-way valve | 3143-E28 | 28 | on request |
| Floor pan | 3143-E29 | 29 | on request |
| Lid to the electronics box | 3143-E30 | 30 | on request |
| Frame for the electronics box | 3143-E31 | 31 | on request |
| Frequency converter | 2762-E37 | 32 | on request |
| Plate to the electronics box | 3143-E33 | 33 | on request |
| Terminal 2-fold | 2670-E36 | 34 | on request |
| Compressor relay | 2675-E37 | 35 | on request |
| Connection terminal 5-fold | 3142-E38 | 36 | on request |
| PC1004 board | 2762-E38 | 37 | on request |

Technical specifications are subject to change without prior notice.

## MIDA.Boost 12

Art. 3130



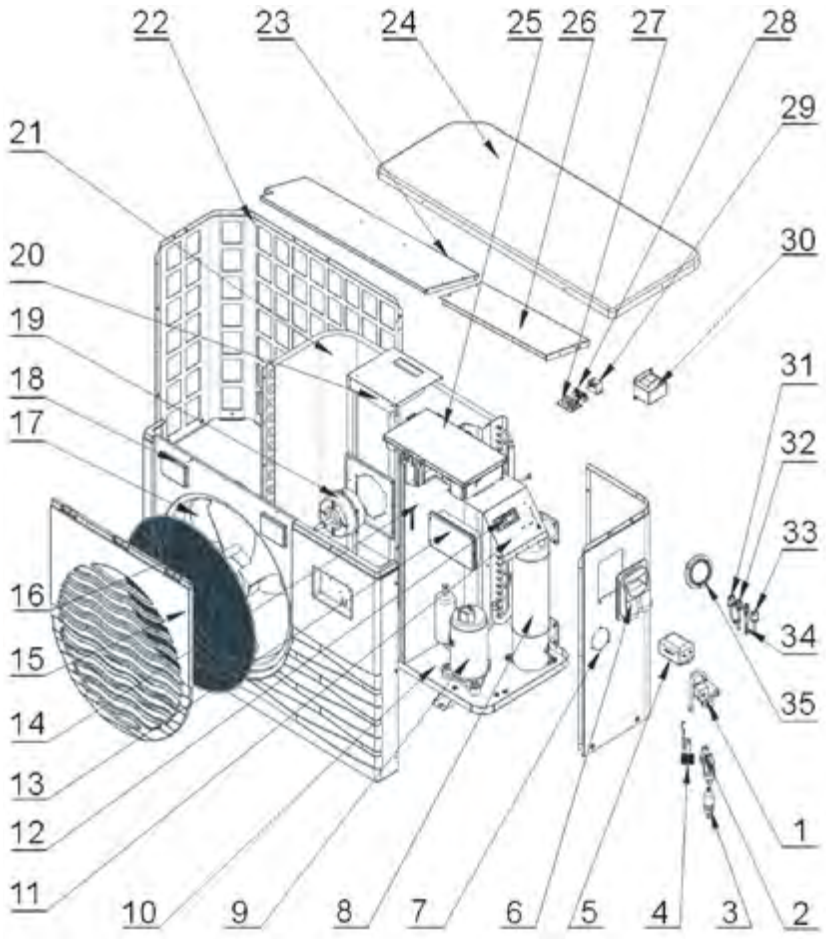

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| 4-way valve and fittings | 2670-E11 | 1 | on request |
| Electronic expansion Valve | 2760-E2 | 2 | on request |
| Filter | 2670-E7 | 3 | on request |
| Flow Switch | 2675-E20 | 4 | on request |
| EMI Filter | 2677-E25 | 5 | on request |
| Grommet | 2670-E13 | 6 | on request |
| Aperture Right | 2760-E7 | 7 | on request |
| Titanium heat exchangers | 2677-E10 | 8 | on request |
| Compressor | 2760-E9 | 9 | on request |
| Floor plate | 2760-E10 | 10 | on request |
| Switchbox | 2760-E11 | 11 | on request |
| Connection terminal (5-fold) | 2670-E38 | 12 | on request |
| 5 "touch screen display | 2760-E13 | 13 | on request |
| Partition wall | 2760-E14 | 14 | on request |
| Fans protective cover | 2760-E28 | 15 | on request |
| Fans protective net | 2760-E16 | 16 | on request |
| Fan | 2670-E25 | 17 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front panel | 2760-E16 | 18 | on request |
| Fan motor | 2670-E27 | 19 | on request |
| Engine support | 2760-E20 | 20 | on request |
| Finned heat exchanger | 2760-E21 | 21 | on request |
| Guard | 2760-E22 | 22 | on request |
| Support plate | 2760-E23 | 23 | on request |
| Cover | 2760-E24 | 24 | on request |
| Frequency converter | 2760-E25 | 25 | on request |
| Support plate 2 | 2760-E26 | 26 | on request |
| Power adapter | 2760-E27 | 27 | on request |
| 2-bit connection part | 2670-E36 | 28 | on request |
| Relay | 2675-E37 | 29 | on request |
| Transformer | 2677-E31 | 30 | on request |
| Low-pressure switch | 2670-E9 | 31 | on request |
| Needle valve | 2670-E3 | 32 | on request |
| High-pressure switch | 2670-E8 | 33 | on request |
| Triplet | 2760-E34 | 34 | on request |
| Pressure gauge | 2760-E35 | 35 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Boost 18

Art. 3132



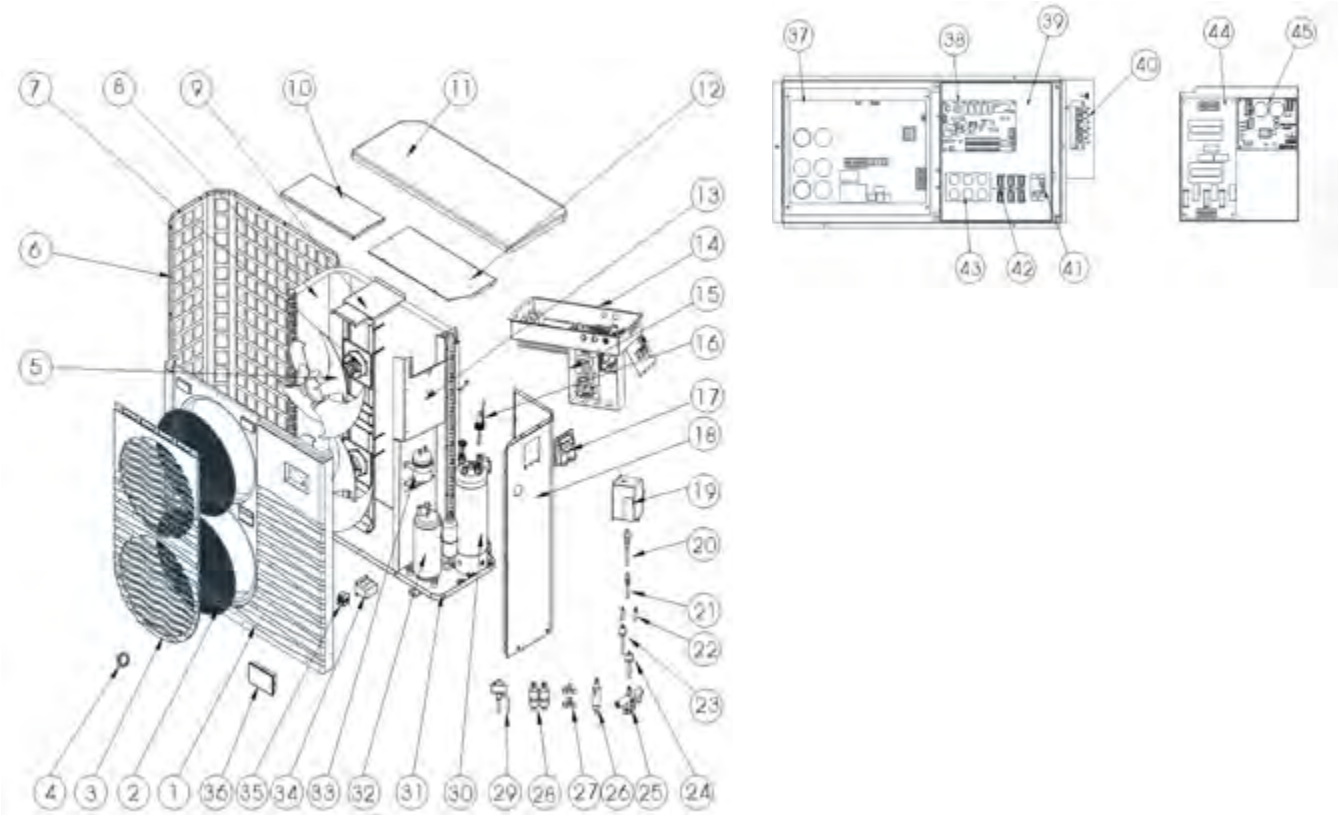

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| 4-way valve | 2670-E11 | 1 | on request |
| Electronic expansion valve | 2761-E2 | 2 | on request |
| Filter | 2670-E7 | 3 | on request |
| Flow switch | 2675-E20 | 4 | on request |
| EMI Filter | 2760-E5 | 5 | on request |
| Junction box body | 2670-E13 | 6 | on request |
| Right side plate | 2761-E7 | 7 | on request |
| Titanium tube heat exchanger | 2761-E8 | 8 | on request |
| Compressor | 2760-E9 | 9 | on request |
| Chassis assembly | 2671-E10 | 10 | on request |
| Electric box assembly | 2761-E11 | 11 | on request |
| 5-bit socket | 2670-E38 | 12 | on request |
| Colorful display | 2760-E13 | 13 | on request |
| Median septum | 2761-E14 | 14 | on request |
| Fan protection net | 2761-E15 | 15 | on request |
| Embedded net | 2760-E16 | 16 | on request |
| Fan blade | 2670-E25 | 17 | on request |
| Front frame | 2761-E18 | 18 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Continuous current dynamol | 2670-E27 | 19 | on request |
| Motor support | 2761-E20 | 20 | on request |
| Finned heat exchanger | 2761-E21 | 21 | on request |
| Rear net | 2761-E22 | 22 | on request |
| Top support plate | 2761-E23 | 23 | on request |
| Top cover | 2761-E24 | 24 | on request |
| Inverter driver | 2760-E25 | 25 | on request |
| Top support plate 2 | 2761-E26 | 26 | on request |
| Power Supply | 2760-E27 | 27 | on request |
| 2-bit connection seat | 2670-E36 | 28 | on request |
| Electric relay | 2675-E37 | 29 | on request |
| Reactance | 2677-E31 | 30 | on request |
| Low-pressure switch | 2670-E9 | 31 | on request |
| Needle valve | 2670-E3 | 32 | on request |
| High-pressure switch | 2670-E8 | 33 | on request |
| Triplet | 2760-E34 | 34 | on request |
| Pressure gauge | 2760-E35 | 35 | on request |

Technical specifications are subject to change without prior notice.

## MIDA.Boost 24

Art. 3132



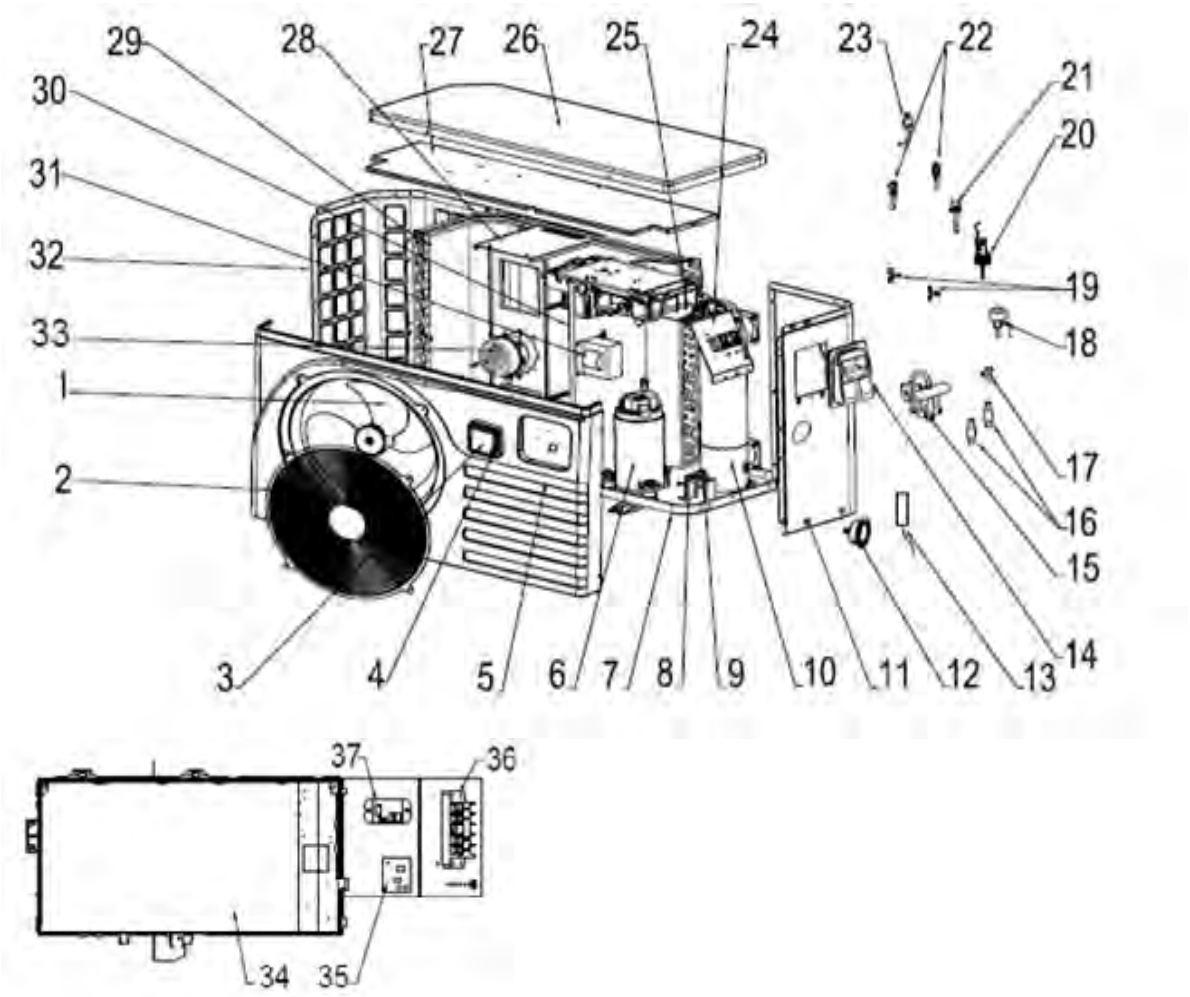

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front Panel | 2673-E4 | 1 | on request |
| Embedded net | 2762-E2 | 2 | on request |
| Fan protection net | 2673-E4 | 3 | on request |
| Pressure gauge | 2670-E35 | 4 | on request |
| Fan Blade | 2670-E25 | 5 | on request |
| Back protection net | 2762-E6 | 6 | on request |
| Fan motor | 2670-E27 | 7 | on request |
| Heat exchanger | 2762-E8 | 8 | on request |
| Fan Motor Support | 2762-E9 | 9 | on request |
| Supporting Plate | 2762-E10 | 10 | on request |
| Top cover | 2762-E11 | 11 | on request |
| Electrical Box Cover | 2762-E12 | 12 | on request |
| Middle Plate | 2762-E13 | 13 | on request |
| Electrical Box | 2762-E14 | 14 | on request |
| Electrical Box | 2762-E15 | 15 | on request |
| Flow switch | 2760-E4 | 16 | on request |
| Junction box | 2670-E13 | 17 | on request |
| Right panel | 2762-E18 | 18 | on request |
| Electrical Box | 2762-E19 | 19 | on request |
| Needle | 2762-E20 | 20 | on request |
| Needle | 2670-E35 | 21 | on request |
| Variable diameter | 2762-E22 | 22 | on request |
| Pressure switch | 2670-E8 | 23 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Pressure switch | 2670-E9 | 24 | on request |
| 4-way Valve and fittings | 2672-E12 | 25 | on request |
| Check valve | 2670-E10 | 26 | on request |
| T-Pipe | 2670-E4 | 27 | on request |
| Filter | 2670-E7 | 28 | on request |
| Electronic Expansion Valve | 2673-E28 | 29 | on request |
| Titanium heat exchanger | 2762-E30 | 30 | on request |
| Chassis | 2762-E31 | 31 | on request |
| Compressor | 2762-E32 | 32 | on request |
| Fluid reservoir | 2762-E33 | 33 | on request |
| Reactance | 2762-E34 | 34 | on request |
| Three phase AC monitor | 2762-E35 | 35 | on request |
| Colorful display | 2760-E13 | 36 | on request |
| Inverter drive module | 2762-E37 | 37 | on request |
| PC1004 | 2762-E38 | 38 | on request |
| Electric box lining board | 2762-E39 | 39 | on request |
| Terminal Board(5 bit) | 2762-E40 | 40 | on request |
| Relay | 2675-E37 | 41 | on request |
| Terminal Board(2 bit) | 2670-E36 | 42 | on request |
| Capacitor plate | 2762-E43 | 43 | on request |
| Filter plate | 2762-E44 | 44 | on request |
| Regulating module | 2762-E45 | 45 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Force 7

Art. 3120




| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Fan | 2675-E1 | 1 | on request |
| Fan cover | 2700-E2 | 2 | on request |
| Display case | 3000-E33 | 3 | on request |
| Display | 2675-E4 | 4 | on request |
| Front panel | 2675-E5 | 5 | on request |
| Compressor | 2675-E6 | 6 | on request |
| Baseplate | 2675-E7 | 7 | on request |
| Clamp for copper pipe | 2675-E8 | 8 | on request |
| Stainless steel pipe connections | 2675-E9 | 9 | on request |
| Titanium heat exchangers | 2675-E10 | 10 | on request |
| Aperture on the right | 2675-E11 | 11 | on request |
| Manometer | 2675-E12 | 12 | on request |
| Temperature sensor | 2675-E13-600 | 13 | on request |
| Temperature sensor | 2675-E13-480 | 13 | on request |
| Grommet | 2675-E14 | 14 | on request |
| 4-way valve and fittings | 2670-E11 | 15 | on request |
| Filter | 2675-E16 | 16 | on request |
| T-piece | 2675-E17 | 17 | on request |
| Electronic expansion valve | 2675-E18 | 18 | on request |

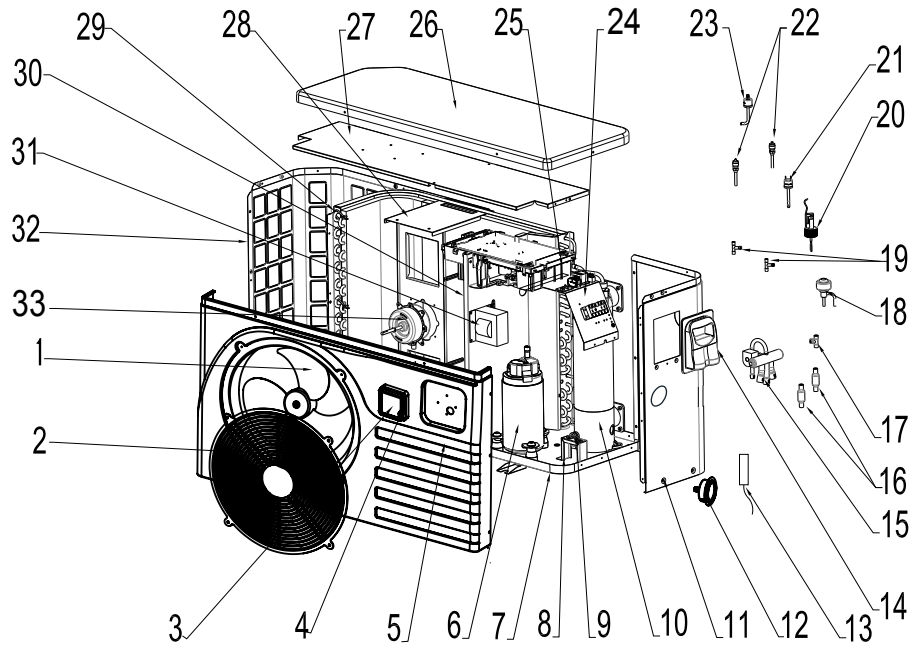
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| T-piece | 2675-E19 | 19 | on request |
| Paddle switches | 2675-E20 | 20 | on request |
| Low pressure switch | 2670-E9 | 21 | on request |
| Nozzle needle | 2670-E3 | 22 | on request |
| High pressure switch | 2670-E8 | 23 | on request |
| Support plate | 2675-E24 | 24 | on request |
| Electronic control | 2675-E25 | 25 | on request |
| Cover | 2675-E26 | 26 | on request |
| Lid cover | 2675-E27 | 27 | on request |
| Fan motor holder | 2675-E28 | 28 | on request |
| Finned heat exchanger | 2675-E29 | 29 | on request |
| Partition wall | 2675-E30 | 30 | on request |
| Transformer | 2675-E31 | 31 | on request |
| Guard | 2675-E32 | 32 | on request |
| Fan motor | 2675-E33 | 33 | on request |
| Frequency converter | 2675-E34 | 34 | on request |
| Power adapter | 2675-E35 | 35 | on request |
| Terminal (5 times) | 2670-E38 | 36 | on request |
| Relay | 2675-E37 | 37 | on request |

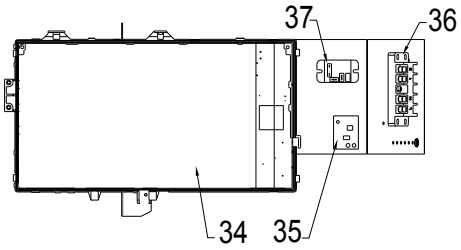


Technical specifications are subject to change without prior notice.

## MIDA.Force 12

Art. 3121



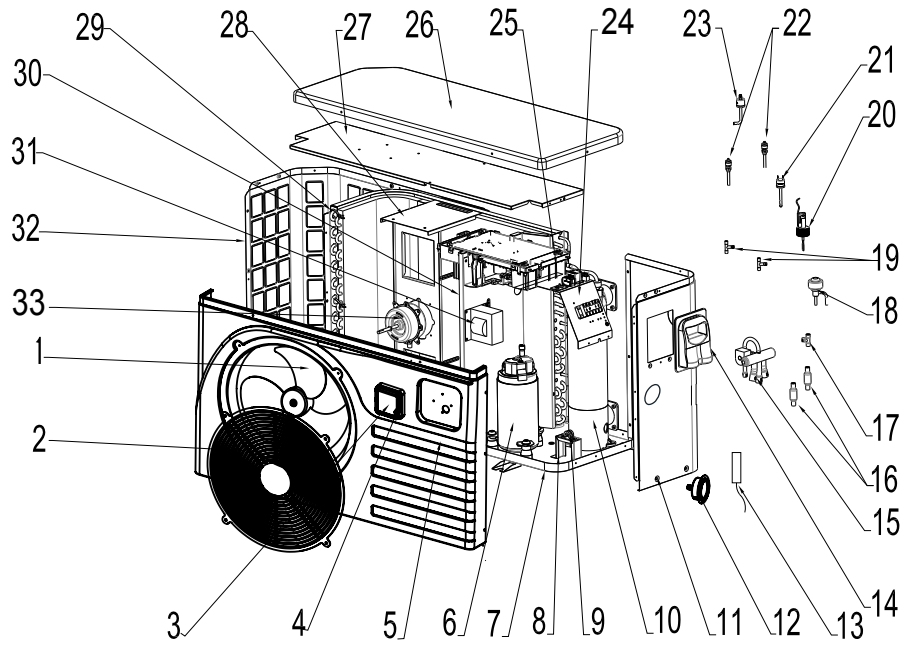

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Fan | 2675-E1 | 1 | on request |
| Fans protective cover | 2700-E2 | 2 | on request |
| Display case | 3000-E33 | 3 | on request |
| Display | 2675-E4 | 4 | on request |
| Front panel | 2675-E5 | 5 | on request |
| Compressor | 2675-E6 | 6 | on request |
| Baseplate | 2675-E7 | 7 | on request |
| Clamp for copper pipe | 2675-E8 | 8 | on request |
| Stainless steel pipe connections | 2675-E9 | 9 | on request |
| Titanium heat exchangers | 2801-E18 | 10 | on request |
| Aperture on the right | 2675-E11 | 11 | on request |
| Manometer | 2675-E12 | 12 | on request |
| Temperature sensor | 2675-E13-600 | 13 | on request |
| Temperature sensor | 2675-E13-480 | 13 | on request |
| Grommet | 2675-E14 | 14 | on request |
| 4-way valve and fittings | 2670-E11 | 15 | on request |
| Filter | 2675-E16 | 16 | on request |
| T-piece | 2675-E17 | 17 | on request |
| Electronic expansion valve | 2675-E18 | 18 | on request |

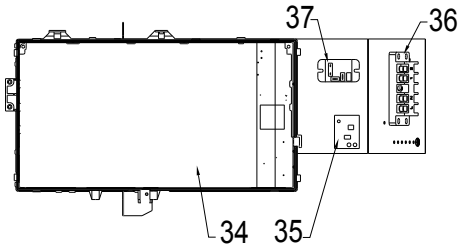
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| T-piece | 2675-E19 | 19 | on request |
| Paddle switches | 2675-E20 | 20 | on request |
| Low pressure switch | 2670-E9 | 21 | on request |
| Nozzle needle | 2670-E3 | 22 | on request |
| High pressure switch | 2670-E8 | 23 | on request |
| Support plate | 2675-E24 | 24 | on request |
| Electronic control | 2675-E25 | 25 | on request |
| Cover | 2675-E26 | 26 | on request |
| Lid cover | 2675-E27 | 27 | on request |
| Fans engine mount | 2675-E28 | 28 | on request |
| Finned heat exchanger | 2676-E29 | 29 | on request |
| Partition wall | 2675-E30 | 30 | on request |
| Transformer | 2675-E31 | 31 | on request |
| Guard | 2675-E32 | 32 | on request |
| Fan motor | 2675-E33 | 33 | on request |
| Frequency converter | 2675-E34 | 34 | on request |
| Power adapter | 2675-E35 | 35 | on request |
| Terminal (5 times) | 2670-E38 | 36 | on request |
| Relay | 2675-E37 | 37 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Force 17

Art. 2677




| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Fan | 2677-E1 | 1 | on request |
| Fans protective cover | 2677-E2 | 2 | on request |
| Display case | 3000-E33 | 3 | on request |
| Display | 2675-E4 | 4 | on request |
| Front panel | 2677-E5 | 5 | on request |
| Compressor | 2677-E6 | 6 | on request |
| Baseplate | 2677-E7 | 7 | on request |
| Titanium heat exchangers | 2677-E10 | 10 | on request |
| Aperture on the right | 2677-E11 | 11 | on request |
| Manometer | 2675-E12 | 12 | on request |
| Temperature sensor | 2675-E13-600 | 13 | on request |
| Temperature sensor | 2675-E13-480 | 13 | on request |
| Grommet | 2675-E14 | 14 | on request |
| 4-way valve and fittings | 2670-E11 | 15 | on request |
| Filter | 2677-E16 | 16 | on request |
| T-piece | 2675-E17 | 17 | on request |
| Electronic expansion valve | 2677-E18 | 18 | on request |
| T-piece | 2675-E19 | 19 | on request |

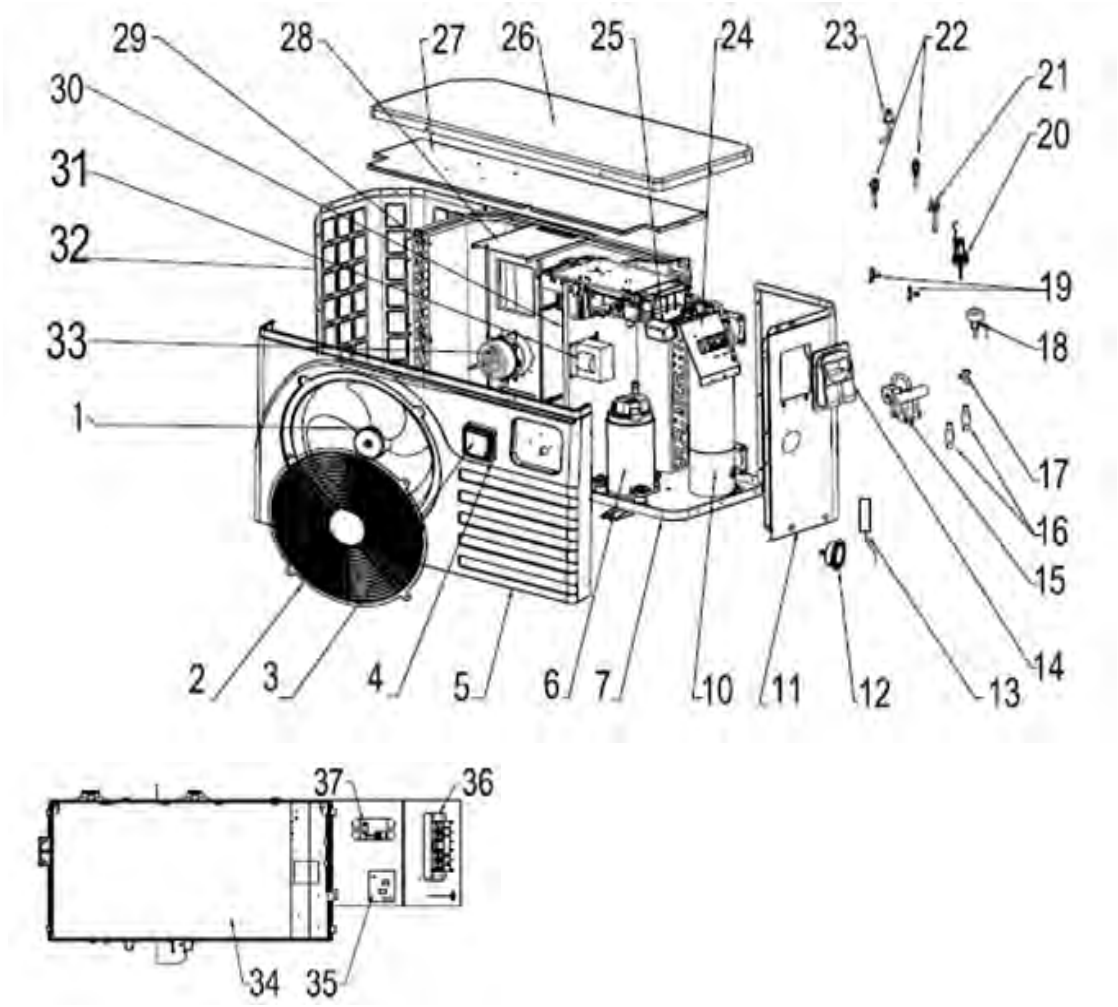
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Paddle switches | 2675-E20 | 20 | on request |
| Low pressure switch | 2670-E9 | 21 | on request |
| Nozzle needle | 2670-E3 | 22 | on request |
| High pressure switch | 2670-E8 | 23 | on request |
| Support plate | 2677-E24 | 24 | on request |
| Rejector | 2677-E25 | 25 | on request |
| Cover | 2677-E26 | 26 | on request |
| Lid cover | 2677-E27 | 27 | on request |
| Fans engine mount | 2677-E28 | 28 | on request |
| Finned heat exchanger | 2677-E29 | 29 | on request |
| Partition wall | 2677-E30 | 30 | on request |
| Transformer | 2677-E31 | 31 | on request |
| Guard | 2677-E32 | 32 | on request |
| Fan motor | 2677-E33 | 33 | on request |
| Frequency converter | 2677-E34 | 34 | on request |
| Power adapter | 2675-E35 | 35 | on request |
| Terminal (5 times) | 2670-E38 | 36 | on request |
| Relay | 2675-E37 | 37 | on request |



Technical specifications are subject to change without prior notice.

## MIDA.Force 20

Art. 3123



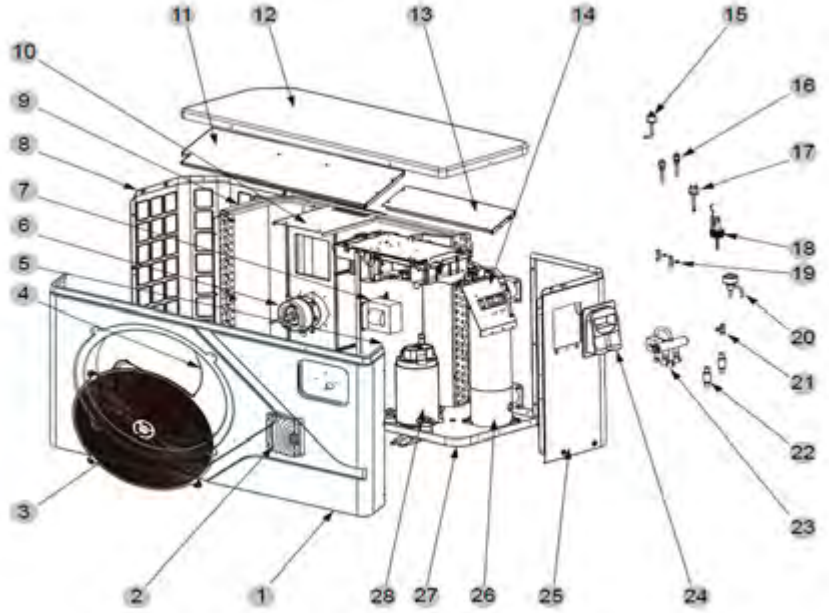

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Fan | 2677-E1 | 1 | on request |
| Fan protection cover | 3123-E2 | 2 | on request |
| Display housing | 3000-E33 | 3 | on request |
| Display | 2675-E4 | 4 | on request |
| Front panel | 3123-E5 | 5 | on request |
| Compressor | 3123-E6 | 6 | on request |
| Base plate | 3123-E7 | 7 | on request |
| Titanium heat exchanger | 2677-E10 | 10 | on request |
| Right aperture | 3123-E11 | 11 | on request |
| Manometer | 2675-E12 | 12 | on request |
| Temperature sensor | 2675-E13-600 | 13 | on request |
| Temperature sensor | 2675-E13-480 | 13 | on request |
| Cable entry | 2675-E14 | 14 | on request |
| 4-way valve and fittings | 2670-E11 | 15 | on request |
| Filter | 2677-E16 | 16 | on request |
| T-piece | 2675-E17 | 17 | on request |
| Electronic expansion valve | 2677-E18 | 18 | on request |
| T-piece | 2675-E19 | 19 | on request |

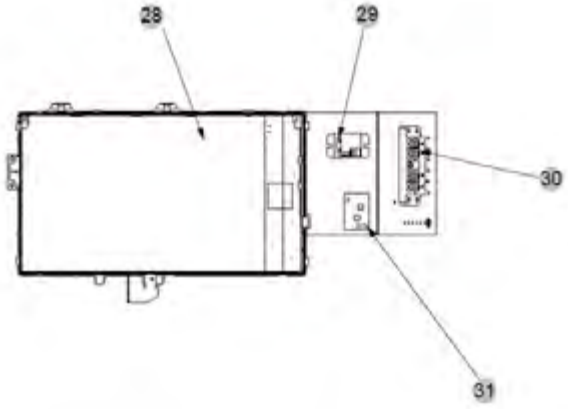
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Paddle switch | 2675-E20 | 20 | on request |
| Low pressure switch | 2670-E9 | 21 | on request |
| Nozzle needle | 2670-E3 | 22 | on request |
| High pressure switch | 2670-E8 | 23 | on request |
| Support plate | 3123-E24 | 24 | on request |
| Rejector | 2677-E25 | 25 | on request |
| Cover | 3123-E26 | 26 | on request |
| Lid holding plate | 3123-E27 | 27 | on request |
| Fan motor bracket | 3123-E28 | 28 | on request |
| Finned heat exchanger | 3123-E29 | 29 | on request |
| Partition wall | 3123-E30 | 30 | on request |
| Transformer | 2677-E31 | 31 | on request |
| Protective grille | 3123-E32 | 32 | on request |
| Fan motor | 2670-E27 | 33 | on request |
| Frequency converter | 2677-E34 | 34 | on request |
| Power adapter | 2675-E35 | 35 | on request |
| Connection terminal (5-fold) | 2670-E38 | 36 | on request |
| Relay | 2675-E37 | 37 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Joy 7

Art. 3110



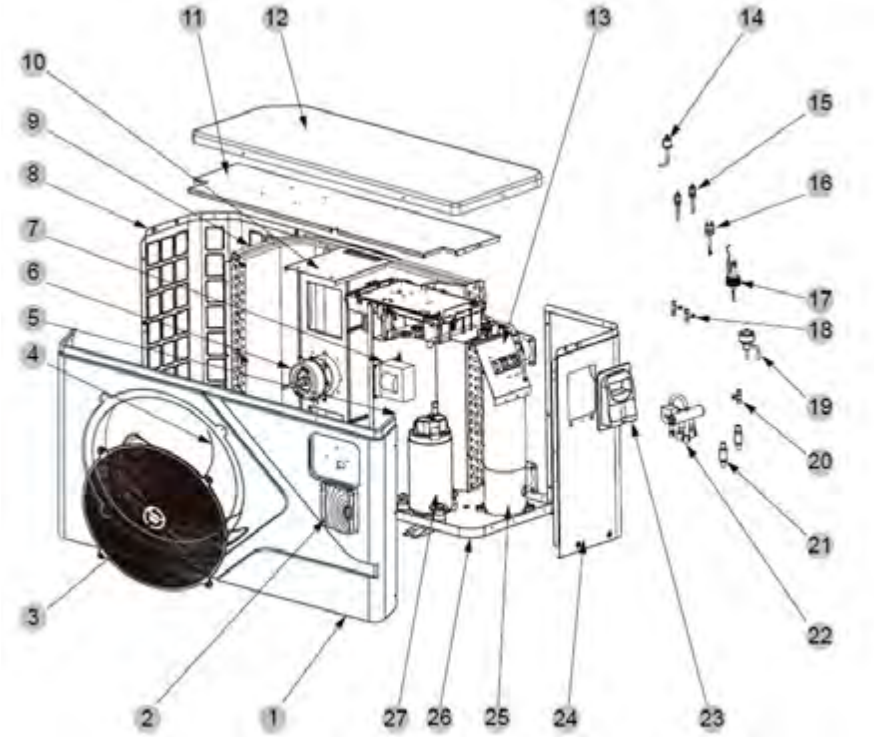




| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front cover | 3110-E1 | 1 | on request |
| LED102 touch screen display | 3110-E2 | 2 | on request |
| Fan protection cover | 2700-E2 | 3 | on request |
| Fan Ø 405 x 134 | 2675-E1 | 4 | on request |
| Partition wall | 2675-E30 | 5 | on request |
| Fan motor | 2675-E33 | 6 | on request |
| Transformer | 2675-E31 | 7 | on request |
| Protective grille at the rear | 3110-E7 | 8 | on request |
| Finned heat exchanger | 2675-E29 | 9 | on request |
| Fan motor bracket | 3110-E10 | 10 | on request |
| Lid holding plate | 2675-E27 | 11 | on request |
| Housing cover | 2675-E26 | 12 | on request |
| Support plate | 2675-E24 | 13 | on request |
| Low pressure switch | 2670-E9 | 14 | on request |
| Nozzle needle | 2670-E3 | 15 | on request |
| High pressure switch | 2670-E8 | 16 | on request |
| Paddle switch | 3110-E17 | 17 | on request |
| T-piece Ø 6.5mm | 2675-E19 | 18 | on request |
| Electronic expansion valve | 2666-E27 | 19 | on request |
| T-piece Ø 9.52 - 2 × Ø 6.35 | 2675-E17 | 20 | on request |
| Filters Ø 9.7 -Ø 9.7 (Ø 19) T2M | 2675-E16 | 21 | on request |
| 4-way valve and fittings | 3110-E22 | 22 | on request |
| Cable entry | 2675-E14 | 23 | on request |
| Housing wall on the right | 3110-E24 | 24 | on request |
| Titanium heat exchanger | 2675-E10 | 25 | on request |
| Base plate | 3110-E26 | 26 | on request |
| Compressor | 3110-E27 | 27 | on request |
| Frequency converter module | 2675-E25 | 28 | on request |
| Relay 30A | 2675-E37 | 29 | on request |
| Connection terminal (5-fold) | 2670-E38 | 30 | on request |
| Power supply to the display | 2675-E35 | 31 | on request |

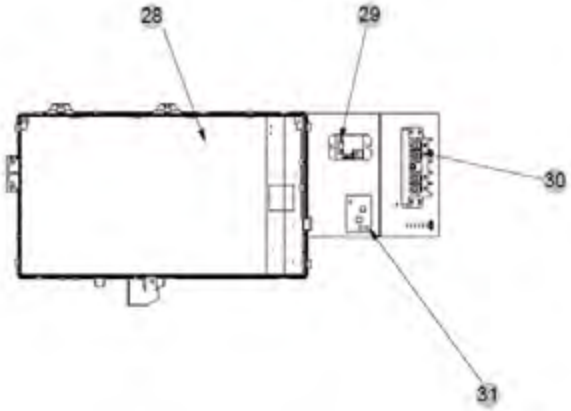
Technical specifications are subject to change without prior notice.

## MIDA.Joy 12

Art. 3111



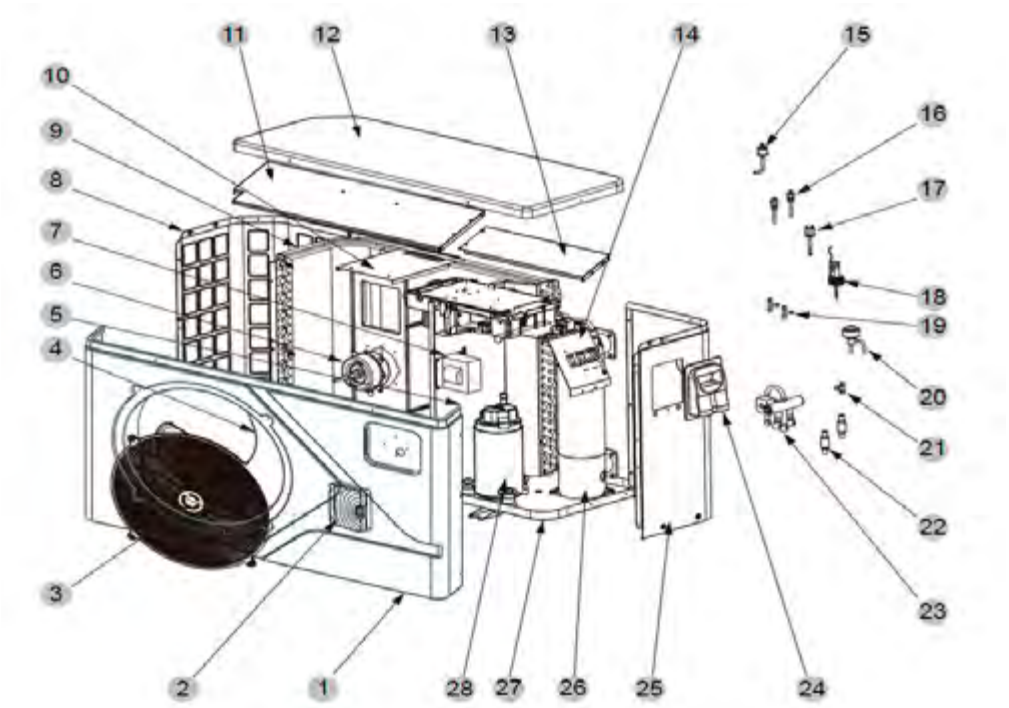

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front cover | 3110-E1 | 1 | on request |
| LED102 touch screen display | 3110-E2 | 2 | on request |
| Fan protection cover | 2700-E2 | 3 | on request |
| Fan D405x134 | 2675-E1 | 4 | on request |
| Partition wall | 2675-E30 | 5 | on request |
| Fan motor | 2675-E33 | 6 | on request |
| Transformer | 2675-E31 | 7 | on request |
| Protective grille at the rear | 3110-E7 | 8 | on request |
| Finned heat exchanger | 2676-E29 | 9 | on request |
| Fan motor bracket | 2675-E28 | 10 | on request |
| Lid holding plate | 2675-E27 | 11 | on request |
| Housing cover | 3111-E12 | 12 | on request |
| Support plate | 2675-E24 | 13 | on request |
| Low pressure switch | 2670-E9 | 14 | on request |
| Nozzle needle | 2670-E3 | 15 | on request |
| High pressure switch | 2670-E8 | 16 | on request |
| Paddle switch | 3110-E17 | 17 | on request |
| T-piece Ø 6.5mm | 2675-E19 | 18 | on request |
| Electronic expansion valve | 2666-E27 | 19 | on request |
| T-piece Ø 9.52 - 2 × Ø 6.35 | 2675-E17 | 20 | on request |
| Filters Ø 9.7 -Ø 9.7 (Ø 19) T2M | 2675-E16 | 21 | on request |
| 4-way valve and fittings | 2670-E11 | 22 | on request |
| Cable entry | 2675-E14 | 23 | on request |
| Housing wall on the right | 3111-E24 | 24 | on request |
| Titanium heat exchanger | 2801-E18 | 25 | on request |
| Base plate | 3111-E26 | 26 | on request |
| Compressor | 3111-E27 | 27 | on request |
| Frequency converter module | 2675-E25 | 28 | on request |
| Relay 30A | 2675-E37 | 29 | on request |
| Connection terminal (5-fold) | 2670-E38 | 30 | on request |
| Power supply to the display | 2675-E35 | 31 | on request |



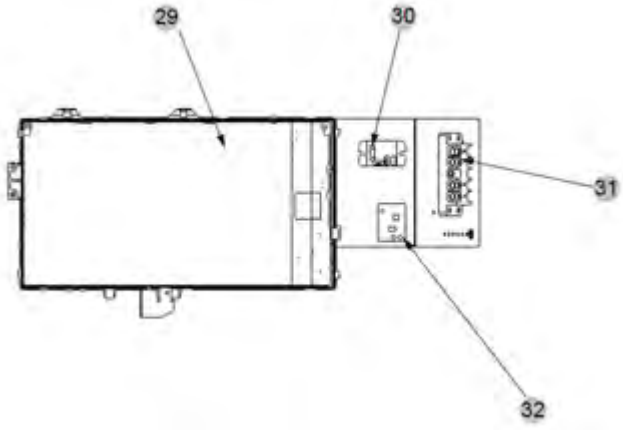

Technical specifications are subject to change without prior notice.

## MIDA.Joy 17

Art. 3112



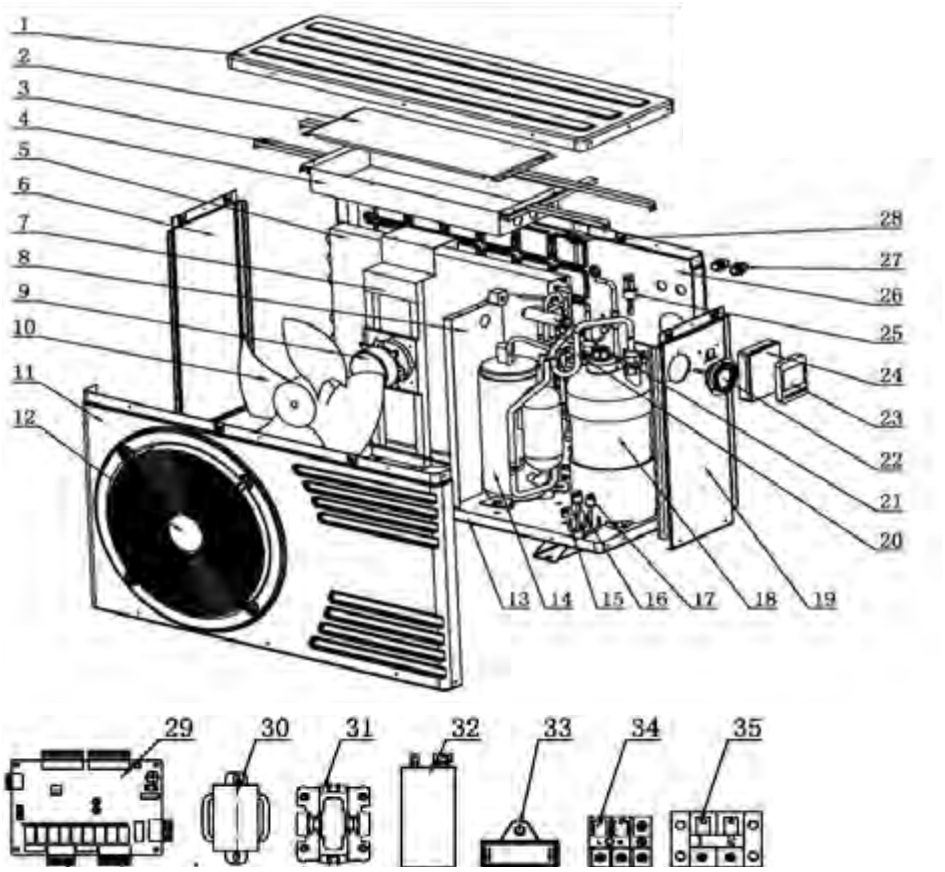

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front cover | 3112-E1 | 1 | on request |
| LED102 touch screen display | 3110-E2 | 2 | on request |
| Fan protection cover | 2677-E2 | 3 | on request |
| Fan Ø 510 × 160 - Ø12(10) ×3 (SW) | 2677-E1 | 4 | on request |
| Partition wall | 2677-E30 | 5 | on request |
| Fan motor | 2670-E27 | 6 | on request |
| Transformer | 2677-E31 | 7 | on request |
| Protective grille at the rear | 3112-E8 | 8 | on request |
| Finned heat exchanger | 2677-E29 | 9 | on request |
| Fan motor holder | 2677-E28 | 10 | on request |
| Lid cover | 2677-E27 | 11 | on request |
| Housing cover | 3112-E13 | 12 | on request |
| Lid holding plate | 3112-E14 | 13 | on request |
| Support plate | 2677-E24 | 14 | on request |
| Low pressure switch | 2670-E9 | 15 | on request |
| Nozzle needle | 2670-E3 | 16 | on request |
| High pressure switch | 2670-E8 | 17 | on request |
| Paddle switch | 3110-E17 | 18 | on request |
| T-piece Ø 6.5mm | 2675-E19 | 19 | on request |
| Electronic expansion valve | 2677-E18 | 20 | on request |
| T-piece Ø 9.52 -2 × Ø 6.35 | 2675-E17 | 21 | on request |
| Filter | 2677-E16 | 22 | on request |
| 4-way valve SHF-9H-35U-P/C03C01S | 2670-E11 | 23 | on request |
| Cable entry | 2675-E14 | 24 | on request |
| Housing wall on the right | 3112-E25 | 25 | on request |
| Titanium heat exchanger Ø 9.52 × 10m Ø110 | 2677-E10 | 26 | on request |
| Base plate | 3112-E27 | 27 | on request |
| Compressor | 3112-E28 | 28 | on request |
| Frequency converter module | 2668-E14 | 29 | on request |
| Relay 30A | 2675-E37 | 30 | on request |
| Connection terminal (5-fold) | 2670-E38 | 31 | on request |
| Power supply to the display | 2675-E35 | 32 | on request |




Technical specifications are subject to change without prior notice.

## MIDA.Black 8

Art. 2950







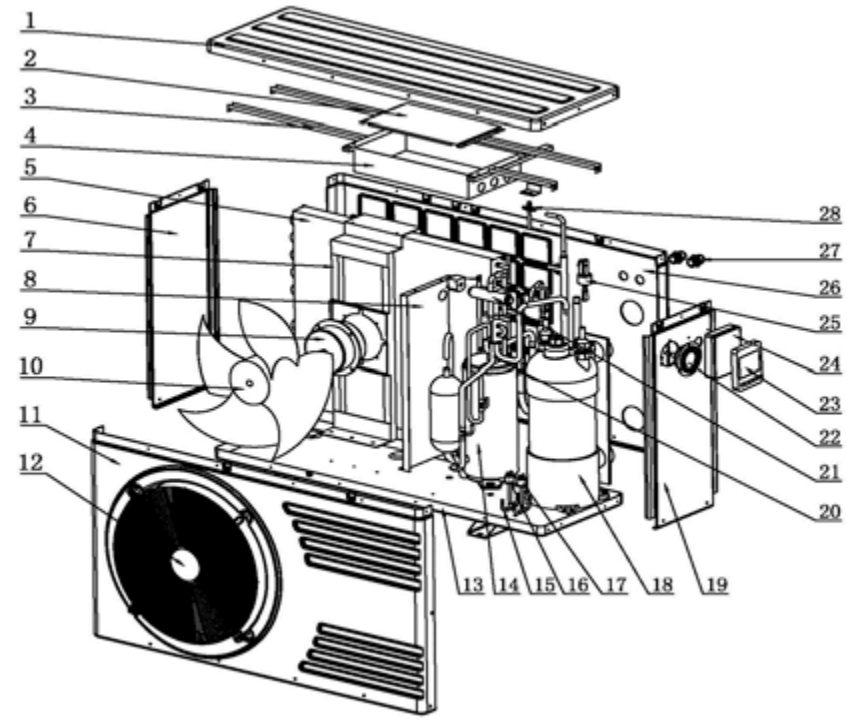
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Cover | 2900-E1 | 1 | on request |
| Cover electronics box | 2950-E2 | 2 | on request |
| Cover support | 2900-E3 | 3 | on request |
| Electronics box | 2900-E4 | 4 | on request |
| Finned heat exchanger | 2950-E5 | 5 | on request |
| Panel left | 2900-E6 | 6 | on request |
| Fan motor mount | 2900-E7 | 7 | on request |
| Partition wall | 2950-E8 | 8 | on request |
| Fan motor | 2950-E9 | 9 | on request |
| Fan | 2900-E10 | 10 | on request |
| Front panel | 2900-E11 | 11 | on request |
| Fan protection | 2900-E12 | 12 | on request |
| Baseplate | 2950-E13 | 13 | on request |
| Compressor | 2950-E14 | 14 | on request |
| Pipe connections | 2950-E15 | 15 | on request |
| High pressure switch | 2900-E16 | 16 | on request |
| Low pressure switch | 2900-E17 | 17 | on request |
| Titanium heat exchangers | 2950-E18 | 18 | on request |
| Aperture on the right | 2900-E19 | 19 | on request |
| Piping | 2950-E20 | 20 | on request |
| Coil for 4-way valve | 2900-E21-1 | 21 | on request |
| 4-way valve | 2900-E21 | | on request |
| Manometer | 2950-E22 | 22 | on request |
| LED display with WiFi | 2950-E23 | 23 | on request |
| Display case | 2950-E24 | 24 | on request |
| Flow Switch | 2900-E25 | 25 | on request |

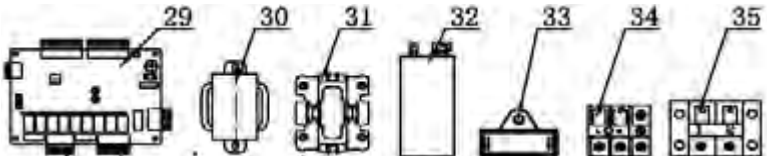
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Rear wall | 2900-E26 | 26 | on request |
| Grommet | 2950-27 | 27 | on request |
| Filling valve refrigerant | 2900-E27 | 28 | on request |
| Circuit board | 2950-E29 | 29 | on request |
| Transformer | 2900-E29 | 30 | on request |
| AC contactor for Mida.Black 8-17 | 2900-E30 | 31 | on request |
| Compressor condenser | 2950-E32 | 32 | on request |
| Fan motor capacitor | 2900-E32 | 33 | on request |
| Terminal block (3-fold) | 2950-E34 | 34 | on request |
| Connection terminal (2-fold) | 2950-E35 | 35 | on request |
| Temperature sensor environment | 2900-E35 | 36 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 37 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 38 | on request |
| Screw connection | 02357 | 39 | on request |
| Silicone O-ring connection verschr. | | 40 | on request |
| Cap | 2950-E41 | 41 | on request |
| Rubber buffers | 2670-E45 | 42 | on request |
| Display extension cable 10 m | 2900-E44 | 43 | on request |
| Winter cover 990 * 360 * 605mm | 2613 | 44 | on request |
| Housing for compressor relay | 2950-E44 | 45 | on request |
| Housing cover | 2950-E45 | 46 | on request |
| WIFI modules (with timer) | 2602 | 47 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Black 11

Art. 2951



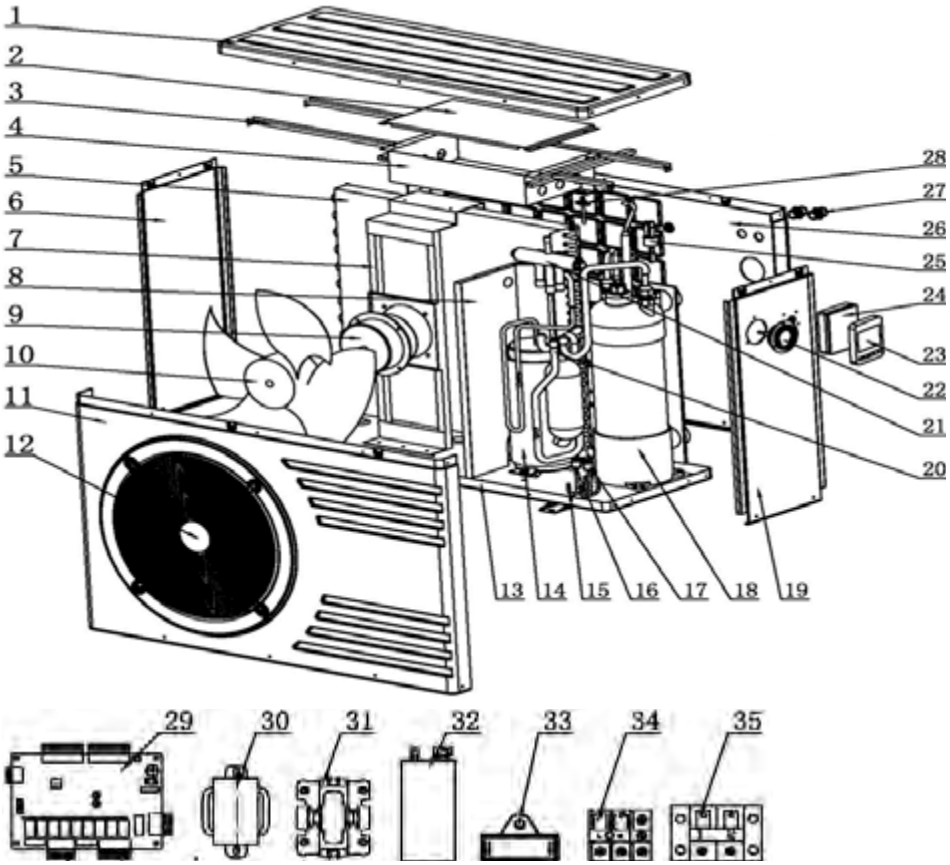

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Cover | 2901-E1 | 1 | on request |
| Cover electronics box | 2951-E2 | 2 | on request |
| Cover support | 2901-E3 | 3 | on request |
| Electronics box | 2901-E4 | 4 | on request |
| Finned heat exchanger | 2951-E5 | 5 | on request |
| Panel left | 2901-E6 | 6 | on request |
| Fan motor mount | 2901-E7 | 7 | on request |
| Partition wall | 2951-E8 | 8 | on request |
| Fan motor | 2951-E9 | 9 | on request |
| Fan | 2951-E10 | 10 | on request |
| Front panel | 2901-E11 | 11 | on request |
| fan protection | 2901-E12 | 12 | on request |
| Baseplate | 2951-E13 | 13 | on request |
| Compressor | 2951-E14 | 14 | on request |
| Pipe connections | 2950-E15 | 15 | on request |
| High pressure switch | 2900-E16 | 16 | on request |
| Low pressure switch | 2900-E17 | 17 | on request |
| Titanium heat exchangers | 2951-18 | 18 | on request |
| Aperture on the right | 2901-E19 | 19 | on request |
| Piping | 2951-E20 | 20 | on request |
| Coil for 4-way valve | 2900-E21-1 | 21 | on request |
| 4-way valve | 2900-E21 | | on request |
| Manometer | 2950-E22 | 22 | on request |
| LED display with WiFi | 2950-E23 | 23 | on request |
| Display case | 2950-E24 | 24 | on request |
| Flow Switch | 2900-E25 | 25 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Rear wall | 2901-E26 | 26 | on request |
| Grommet | 2950-E27 | 27 | on request |
| Filling valve refrigerant | 2900-E27 | 28 | on request |
| Circuit board | 2950-E29 | 29 | on request |
| Transformer | 2900-E29 | 30 | on request |
| AC contactor for Mida.Black 8-17 | 2900-E30 | 31 | on request |
| Compressor condenser | 2951-E32 | 32 | on request |
| Fan motor capacitor | 2901-E32 | 33 | on request |
| Terminal block (3-fold) | 2950-E34 | 34 | on request |
| Connection terminal (2-fold) | 2950-E35 | 35 | on request |
| Temperature sensor environment | 2900-E35 | 36 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 37 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 38 | on request |
| Screw connection | 02357 | 39 | on request |
| Silicone O-ring connection verschr. | 2950-E40 | 40 | on request |
| Cap | 2950-E41 | 41 | on request |
| Rubber buffers | 2670-E45 | 42 | on request |
| Display extension cable 10 m | 2900-E44 | 43 | on request |
| Winter cover 1060 * 370 * 640mm | 2614 | 44 | on request |
| Housing for compressor relay | 2951-E45 | 45 | on request |
| Housing cover | 2951-E46 | 46 | on request |
| WIFI modules (with timer | 2602 | 47 | on request |

Technical specifications are subject to change without prior notice.

## MIDA.Black 14

Art. 2952



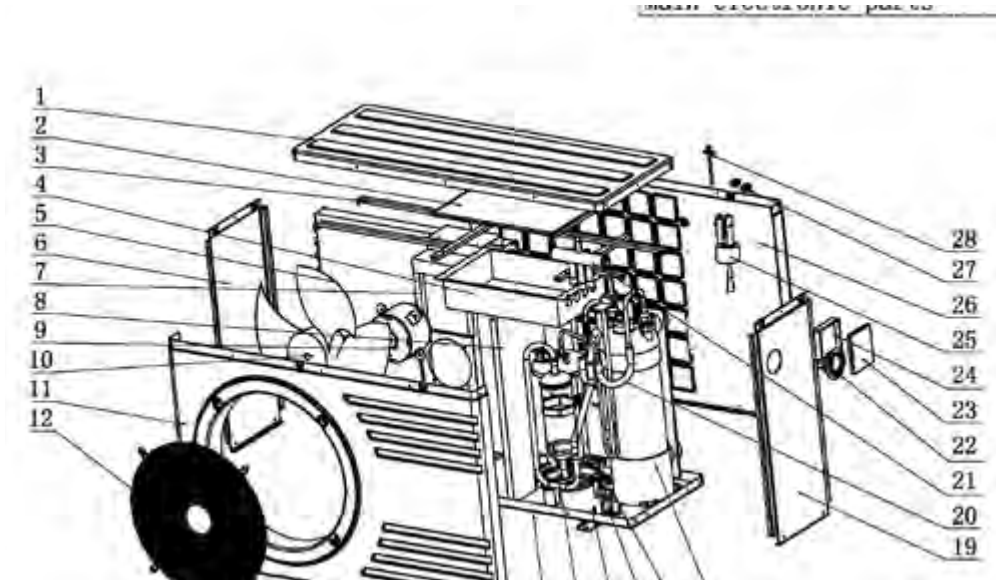

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Cover | 2903-E1 | 1 | on request |
| Cover electronics box | 2903-E2 | 2 | on request |
| Cover support | 2903-E3 | 3 | on request |
| Electronics box | 2952-E4 | 4 | on request |
| Finned heat exchanger | 2952-E5 | 5 | on request |
| Panel left | 2903-E6 | 6 | on request |
| Fan motor mount | 2903-E7 | 7 | on request |
| Partition wall | 2952-E8 | 8 | on request |
| Fan motor | 2952-E9 | 9 | on request |
| Fan | 2903-E10 | 10 | on request |
| Front panel | 2903-E11 | 11 | on request |
| Fan protection | 2903-E11 | 12 | on request |
| Baseplate | 2952-E13 | 13 | on request |
| Compressor | 2952-E14 | 14 | on request |
| Pipe connections | 2950-E15 | 15 | on request |
| High pressure switch | 2900-E16 | 16 | on request |
| Low pressure switch | 2900-E17 | 17 | on request |
| Titanium heat exchangers | 2952-E19 | 18 | on request |
| Aperture on the right | 2903-E19 | 19 | on request |
| Piping | 2952-E20 | 20 | on request |
| Coil for 4-way valve | 2903-E21-1 | 21 | on request |
| 4-way valve | 2903-E21 | | on request |
| Manometer | 2950-E22 | 22 | on request |
| LED display with WiFi | 2950-E23 | 23 | on request |
| Display case | 2950-E24 | 24 | on request |
| Flow Switch) | 2900-E25 | 25 | on request |

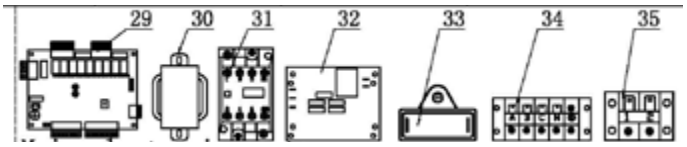
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Rear wall | 2901-E26 | 26 | on request |
| Grommet | 2950-E27 | 27 | on request |
| Filling valve refrigerant | 2900-E27 | 28 | on request |
| Circuit board | 2950-E29 | 29 | on request |
| Transformer | 2900-E29 | 30 | on request |
| AC contactor for Mida.Black 8-17 | 2900-E30 | 31 | on request |
| Compressor condenser | 2952-E32 | 32 | on request |
| Fan motor capacitor | 2901-E32 | 33 | on request |
| Terminal block (3-fold) | 2950-E34 | 34 | on request |
| Connection terminal (2-fold) | 2950-E35 | 35 | on request |
| Temperature sensor environment | 2900-E35 | 36 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 37 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 38 | on request |
| Screw connection | 02357 | 39 | on request |
| Silicone O-ring connection verschr. | 2950-E40 | 40 | on request |
| Cap | 2950-E41 | 41 | on request |
| Rubber buffers | 2670-E45 | 42 | on request |
| Display extension cable 10 m | 2900-E44 | 43 | on request |
| Winter cover 1120 * 420 * 730mm | 2615 | 44 | on request |
| Housing for compressor relay | 2950-E44 | 45 | on request |
| Housing cover | 2950-E45 | 46 | on request |
| WIFI modules (with timer) | 2602 | 47 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Black 17

Art. 2953




| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Cover | 2903-E1 | 1 | on request |
| Cover electronics box | 2903-E2 | 2 | on request |
| Cover support | 2903-E3 | 3 | on request |
| Electronics box | 2953-E4 | 4 | on request |
| Finned heat exchanger | 2953-E5 | 5 | on request |
| Panel left | 2903-E6 | 6 | on request |
| Fan motor mount | 2904-E7 | 7 | on request |
| Partition wall | 2953-E8 | 8 | on request |
| Fan motor | 2953-E9 | 9 | on request |
| Fan | 2904-E10 | 10 | on request |
| Front panel | 2901-E11 | 11 | on request |
| Fan protection | 2904-E12 | 12 | on request |
| Baseplate | 2953-E13 | 13 | on request |
| Compressor | 2953-E14 | 14 | on request |
| Pipe connections | 2950-E15 | 15 | on request |
| High pressure switch | 2900-E16 | 16 | on request |
| Low pressure switch | 2900-E17 | 17 | on request |
| Titanium heat exchangers | 2953-E18 | 18 | on request |
| Aperture on the right | 2903-E19 | 19 | on request |
| Ping | 2953-E20 | 20 | on request |
| Coil for 4-way valve | 2903-E21-1 | 21 | on request |
| 4-way valve | 2903-E21 | | on request |
| Manometer | 2950-E22 | 22 | on request |
| LED display with WiFi | 2950-E23 | 23 | on request |
| Display case | 2950-E24 | 24 | on request |
| Flow Switch | 2900-E25 | 25 | on request |

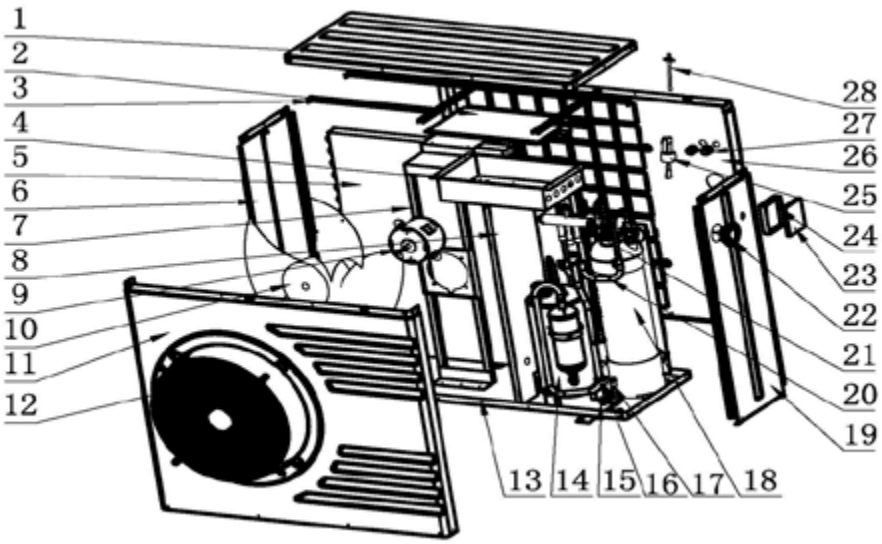
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Rear wall | 2901-E26 | 26 | on request |
| Grommet | 2950-27 | 27 | on request |
| Filling valve refrigerant | 2900-E27 | 28 | on request |
| Circuit board | 2950-E29 | 29 | on request |
| Transformer | 2900-E29 | 30 | on request |
| Three-phase AC contactor | 2953-E31 | 31 | on request |
| Compressor condenser | 2904-E32 | 32 | on request |
| Fan motor capacitor | 2904-E33 | 33 | on request |
| Terminal block (3-fold) | 2950-E34 | 34 | on request |
| Connection terminal (2-fold) | 2950-E35 | 35 | on request |
| Temperature sensor environment | 2900-E35 | 36 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 37 | on request |
| Temperature sensor water (Copper) | 2900-E36 | 38 | on request |
| Screw connection | 02357 | 39 | on request |
| Silicone O-ring connection fitting | 2950-E40 | 40 | on request |
| Cap | 2950-E41 | 41 | on request |
| Rubber buffers | 2670-E45 | 42 | on request |
| Display extension cable 10 m | 2900-E44 | 43 | on request |
| Winter cover 1120 * 420 * 730mm | 2615 | 44 | on request |
| Housing for compressor relay | 2953-E44 | 45 | on request |
| Housing cover | 2953-E45 | 46 | on request |
| WIFI modules (with timer) | 2602 | 47 | on request |

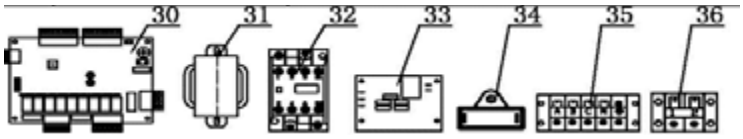


Technical specifications are subject to change without prior notice.

## MIDA.Black 21

Art. 2954



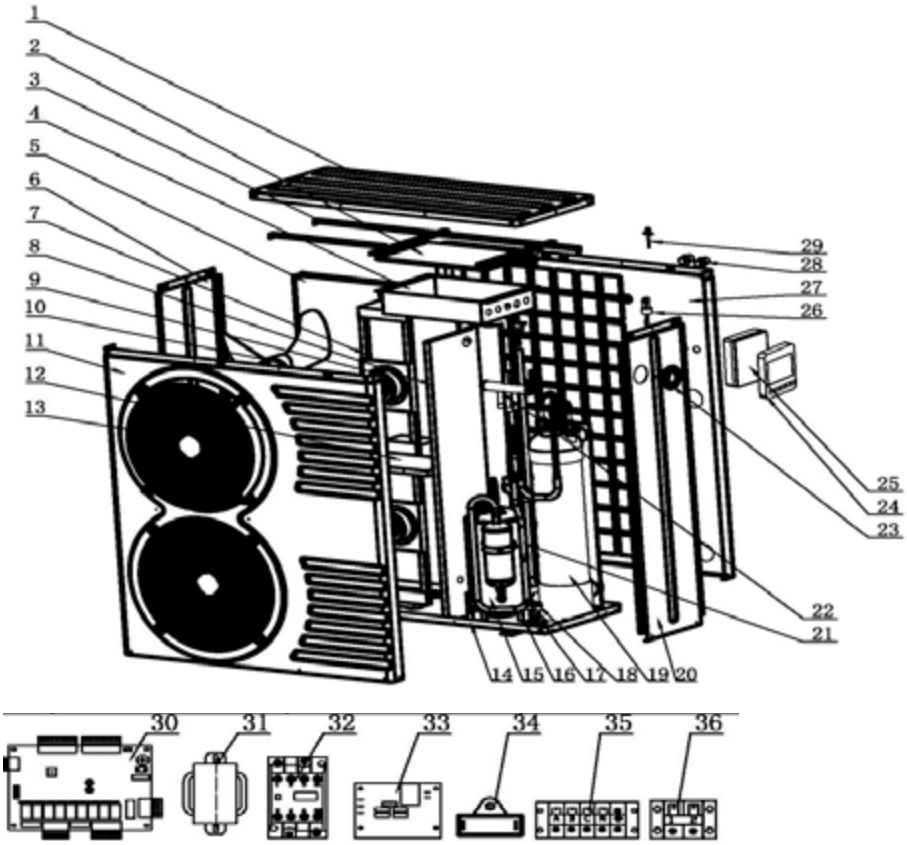

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Cover | 2905-E1 | 1 | on request |
| Cover electronics box | 2954-E2 | 2 | on request |
| Cover support | 2905-E3 | 3 | on request |
| Electronics box | 2954-E4 | 4 | on request |
| Finned heat exchanger | 2954-E5 | 5 | on request |
| Panel left | 2905-E6 | 6 | on request |
| Fan motor mount | 2905-E7 | 7 | on request |
| Partition wall | 2954-E8 | 8 | on request |
| Fan motor | 2954-E9 | 9 | on request |
| Fan | 2905-E10 | 10 | on request |
| Front panel | 2905-E11 | 11 | on request |
| Fan protection | 2905-E12 | 12 | on request |
| Baseplate | 2905-E13 | 13 | on request |
| Compressor | 2954-E14 | 14 | on request |
| Pipe connections | 2950-E15 | 15 | on request |
| High pressure switch | 2900-E16 | 16 | on request |
| Low pressure switch | 2900-E17 | 17 | on request |
| Titanium heat exchangers | 2954-E18 | 18 | on request |
| Aperture on the right | 2905-E20 | 19 | on request |
| Piping | 2954-E20 | 20 | on request |
| Coil for 4-way valve | 2954-E21 | 21 | on request |
| 4-way valve | 2903-E21 | | on request |
| Manometer | 2950-E22 | 22 | on request |
| LED display with WiFi | 2950-E23 | 23 | on request |
| Display case | 2950-E24 | 24 | on request |
| Flow Switch | 2900-E25 | 25 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Rear wall | 2905-E27 | 26 | on request |
| Grommet | 2950-E27 | 27 | on request |
| Filling valve refrigerant | 2900-E27 | 28 | on request |
| Circuit board | 2950-E29 | 29 | on request |
| Transformer | 2900-E29 | 30 | on request |
| Three-phase AC contactor | 2954-E31 | 31 | on request |
| Phase protection board | 2954-E32 | 32 | on request |
| Fan motor capacitor | 2904-E33 | 33 | on request |
| Connection terminal (5-fold) | 2905-E34 | 34 | on request |
| Connection terminal (2-fold) | 2950-E35 | 35 | on request |
| Temperature sensor environment | 2905-E36 | 36 | on request |
| Temperature sensor Water (Cu) | 2900-E36 | 37 | on request |
| Temperature sensor Water (Cu) 2m | 2905-E38 | 38 | on request |
| Screw connection | 02357 | 39 | on request |
| Silicone O-ring connection fitting | 2950-E40 | 40 | on request |
| Cap | 2950-E41 | 41 | on request |
| Rubber buffers | 2670-E45 | 42 | on request |
| Display extension cable 10 m | 2900-E44 | 43 | on request |
| Winter cover 1120 * 420 * 730mm | 2616 | 44 | on request |
| Housing for compressor relay | 2953-E44 | 45 | on request |
| Housing cover | 2953-E45 | 46 | on request |
| WIFI modules (with timer) | 2602 | 47 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Black 26

Art. 2955







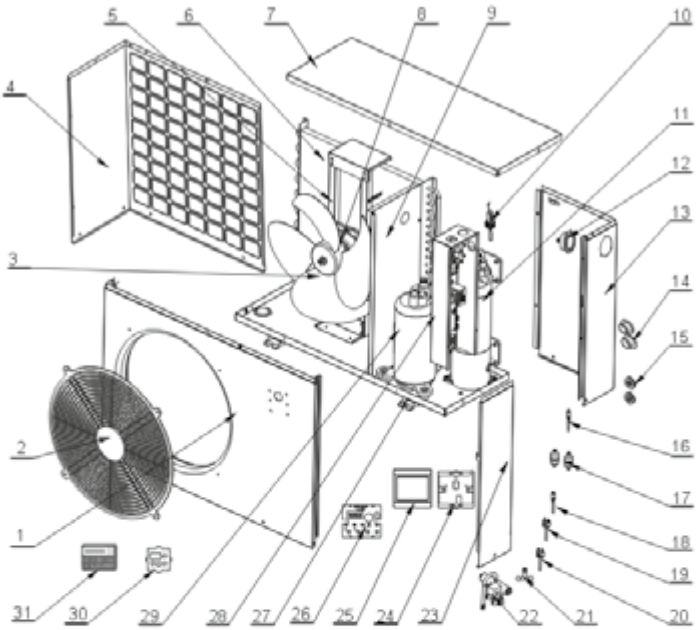
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Cover | 2905-E1 | 1 | on request |
| Cover electronics box | 2954-E2 | 2 | on request |
| Cover support | 2905-E3 | 3 | on request |
| Electronics box | 2954-E4 | 4 | on request |
| Finned heat exchanger | 2955-E5 | 5 | on request |
| Panel left | 2609-E9 | 6 | on request |
| Fan motor mount | 2906-E5 | 7 | on request |
| Partition wall | 2955-E8 | 8 | on request |
| Fan motor | 2955-E9 | 9 | on request |
| Fan | 2906-E8 | 10 | on request |
| Front panel | 2906-E12 | 11 | on request |
| Front panel connection plate | 2906-E11 | 12 | on request |
| Fan protection | 2906-E13 | 13 | on request |
| Baseplate | 2955-E14 | 14 | on request |
| Compressor | 2955-E15 | 15 | on request |
| Pipe connections | 2950-E15 | 16 | on request |
| High pressure switch | 2900-E16 | 17 | on request |
| Low pressure switch | 2900-E17 | 18 | on request |
| Titanium heat exchangers | 2955-E19 | 19 | on request |
| Housing cover right | 2906-E21 | 20 | on request |
| Piping | 2955-E21 | 21 | on request |
| Coil for 4-way valve | 2955-E22 | 22 | on request |
| 4-way valve | 2903-E21 | | on request |
| Manometer | 2950-E22 | 23 | on request |
| LED display with WiFi | 2950-E23 | 24 | on request |
| Display case | 2950-E24 | 25 | on request |

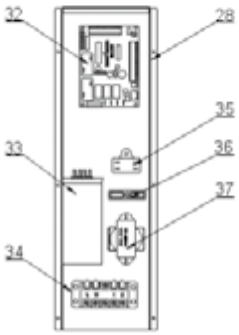
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Flow Switch | 2900-E25 | 26 | on request |
| Filling valve refrigerant | 2900-E27 | 27 | on request |
| Grommet | 2950-E27 | 28 | on request |
| Rear wall | 2906-E29 | 29 | on request |
| Circuit board | 2950-E29 | 30 | on request |
| Transformer | 2900-E29 | 31 | on request |
| Three-phase AC contactor | 2954-E31 | 32 | on request |
| Phase protection board | 2954-E32 | 33 | on request |
| Fan motor capacitor | 2904-E33 | 34 | on request |
| Connection terminal (5-fold) | 2905-E34 | 35 | on request |
| Connection terminal (2-fold) | 2950-E35 | 36 | on request |
| Temperature sensor environment | 2900-E35 | 37 | on request |
| Temperature sensor Water (Cu) | 2900-E36 | 38 | on request |
| Temperature sensor Water (Cu) 2,2m | 2606-E39 | 39 | on request |
| Screw connection | 02357 | 40 | on request |
| Silicone O-ring connection verschr. | 2950-E40 | 41 | on request |
| Rubber buffers | 2670-E45 | 42 | on request |
| Display extension cable 10 m | 2900-E44 | 43 | on request |
| Winter cover 1120 * 450 * 1280mm | 2617 | 44 | on request |
| Housing for compressor relay | 2953-E44 | 45 | on request |
| Housing cover | 2953-E45 | 46 | on request |
| WIFI modules (with timer) | 2602 | 47 | on request |

Technical specifications are subject to change without prior notice.

## MIDA.Quick 4

Art. 2700



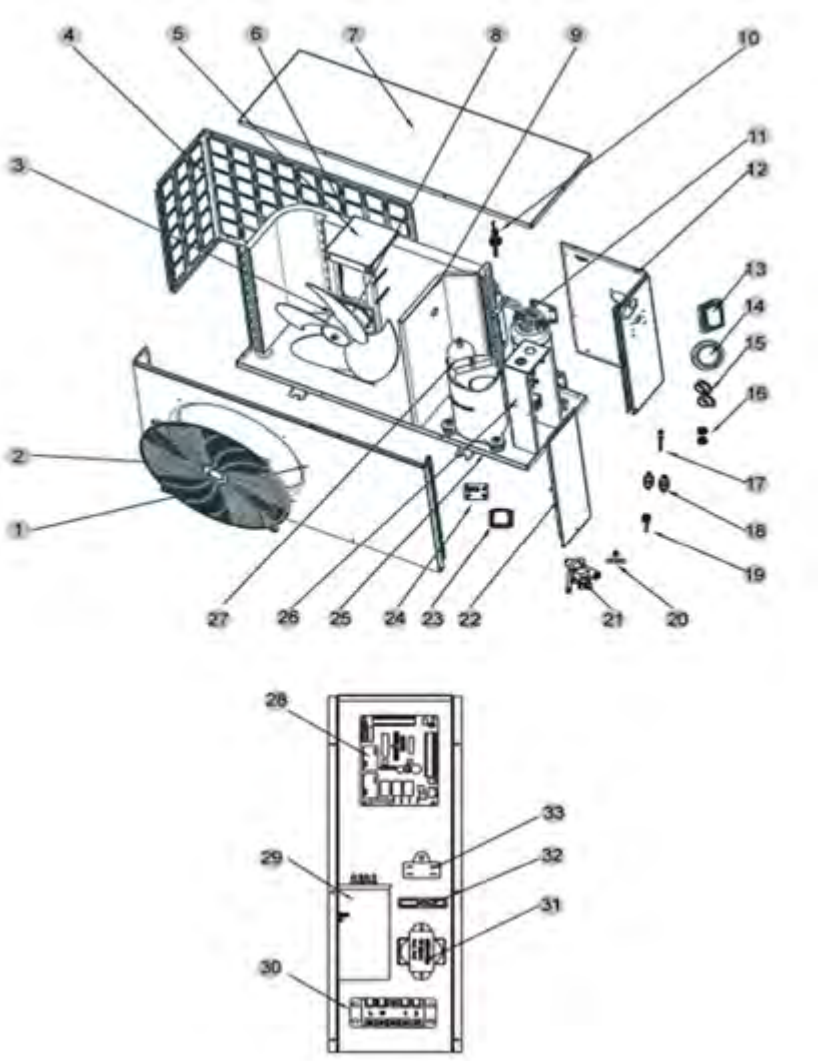

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front panel | 2700-E1 | 1 | on request |
| Fan protection | 2700-E2 | 2 | on request |
| Fan | 2700-E3 | 3 | on request |
| Left panel | 2700-E4 | 4 | on request |
| Fan motor bracket | 2700-E5 | 5 | on request |
| Finned heat exchanger | 2700-E6 | 6 | on request |
| Cover | 2700-E7 | 7 | on request |
| Fan motor | 2700-E8 | 8 | on request |
| Partition wall | 2700-E9 | 9 | on request |
| Flow Switch | 2670-E16 | 10 | on request |
| Titanium heat exchanger | 2700-E19 | 11 | on request |
| Manometer | 2700-E12 | 12 | on request |
| Right aperture | 2700-E13 | 13 | on request |
| Waterproof cover | 2700-E14 | 14 | on request |
| Cable gland | 2700-E15 | 15 | on request |
| Valve needle | 2700-E16 | 16 | on request |
| Filter | 2700-E17 | 17 | on request |
| Valve needle | 2700-E18 | 18 | on request |
| High pressure switch | 2670-E8 | 19 | on request |
| Low pressure switch | 2670-E9 | 20 | on request |
| T-piece | 2700-E21 | 21 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| 4-way valve | 3000-E21 | 22 | on request |
| Electronics cover | 2700-E23 | 23 | on request |
| LED-Display | 2700-E22 | 24, 25, 26, 30, 31 | on request |
| Base plate | 2700-E27 | 27 | on request |
| Electronics box | 2700-E28 | 28 | on request |
| Compressor | 2700-E29 | 29 | on request |
| PC1001 board | 2700-E32 | 32 | on request |
| Compressor condenser | 2700-E33 | 33 | on request |
| Connection terminal (5-fold) | 3000-E31 | 34 | on request |
| Transformer | 2800-E39 | 35 | on request |
| Connection terminal (2-fold) | 3001-E28 | 36 | on request |
| Fan motor condenser | 3000-E27 | 37 | on request |
| | | | on request |
| Not illustrated: | | | on request |
| Display extension cable 10 m | 3000-E32 | | on request |
| Display housing | 3000-E33 | | on request |
| Temperature sensor | 2670-E42 | | on request |
| Screw connection 1½ „x 50 mm | 02357 | | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Quick 7

Art. 2708




| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| front panel | 2701-E1 | 1 | on request |
| fan protection | 2700-E2 | 2 | on request |
| fan | 2700-E3 | 3 | on request |
| Panel left | 2701-E4 | 4 | on request |
| Fan motor mount | 2708-E5 | 5 | on request |
| Finned heat exchanger | 2701-E5 | 6 | on request |
| cover | 2700-E7 | 7 | on request |
| fan motor | 2700-E8 | 8 | on request |
| partition wall | 2708-E9 | 9 | on request |
| Flow Switch | 2670-16 | 10 | on request |
| Titanium heat exchangers | 2701-E11 | 11 | on request |
| Aperture on the right | 2701-E12 | 12 | on request |
| Display case | 2700-E25 | 13 | on request |
| manometer | 2700-E12 | 14 | on request |
| Waterproof cover | 2700-E14 | 15 | on request |
| Cable gland | 2701-E16 | 16 | on request |
| valve needle | 2700-E18 | 17 | on request |

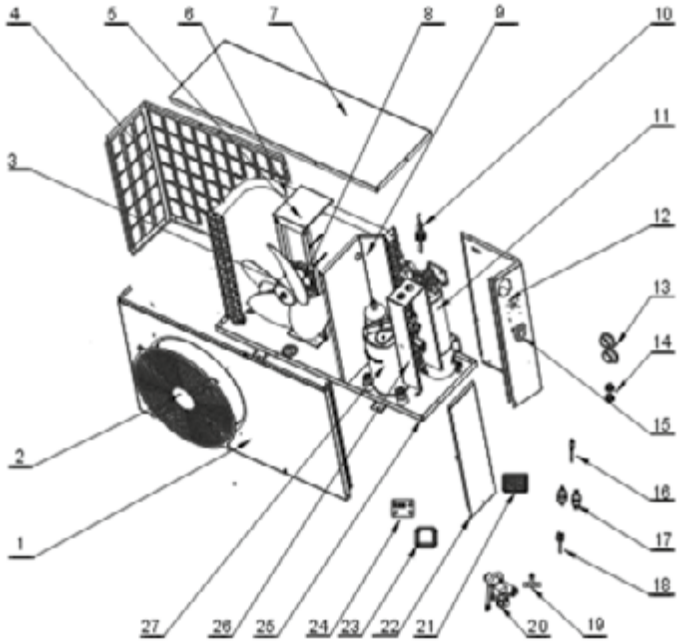
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| filter | 2708-E18 | 18 | on request |
| Low pressure switch | 2670-E9 | 19 | on request |
| T-piece | 2700-E21 | 20 | on request |
| 4-way valve | 3000-E21 | 21 | on request |
| electronics cover | 2708-E22 | 22 | on request |
| LED display | 2700-E22 | 23 | on request |
| LED display lower part | 2700-E22 | 24 | on request |
| baseplate | 2708-E25 | 25 | on request |
| electronics box | 2700-E28 | 26 | on request |
| compressor | 2701-E27 | 27 | on request |
| PCB PC1001 2700-E32 | 2700-E32 | 28 | on request |
| Compressor condenser 35µF | 3000-E26 | 29 | on request |
| Connection terminal (5-fold) | 3000-E31 | 30 | on request |
| transformer | 2800-E39 | 31 | on request |
| Connection terminal (2-fold) | 3001-E28 | 32 | on request |
| Fan capacitor 2µF | 3000-E27 | 33 | on request |

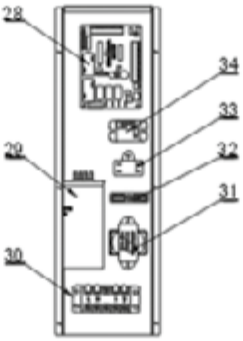


Technical specifications are subject to change without prior notice.

## MIDA.Quick 10

Art. 2703



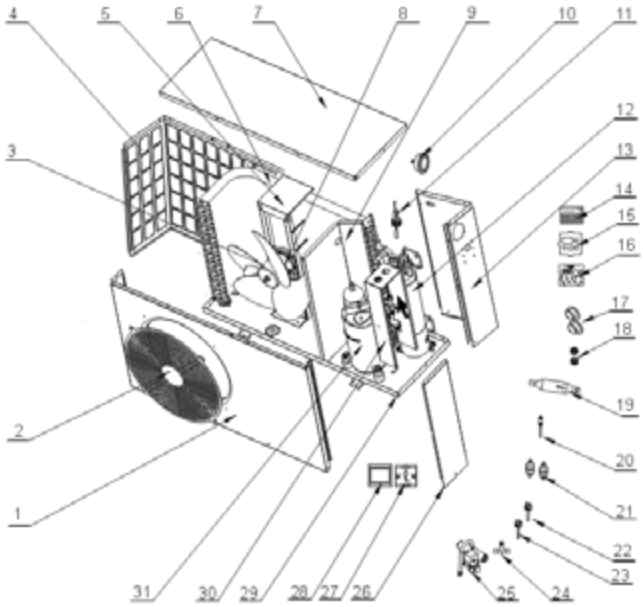

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front panel | 2703-E7 | 1 | on request |
| Fan protection | 2703-E2 | 2 | on request |
| Fan | 2703-E3 | 3 | on request |
| Panel left | 2702-E4 | 4 | on request |
| Fan motor mount | 2703-E5 | 5 | on request |
| Finned heat exchanger | 2703-E6 | 6 | on request |
| Cover | 2702-E7 | 7 | on request |
| Fan motor | 2801-E5 | 8 | on request |
| Partition wall | 2702-E9 | 9 | on request |
| Flow switch | 2670-E16 | 10 | on request |
| Titanium heat exchangers | 2702-E11 | 11 | on request |
| Aperture on the right | 2702-E12 | 12 | on request |
| Waterproof cover | 2700-E14 | 13 | on request |
| Cable gland | 2700-E15 | 14 | on request |
| Manometer | 2700-E12 | 15 | on request |
| Valve needle | 3000-E22 | 16 | on request |
| Filter | 2703-E17 | 17 | on request |
| Low pressure switch | 2670-E9 | 18 | on request |
| T-piece | 2700-E21 | 19 | on request |
| 4-way valve | 2703-E20 | 20 | on request |

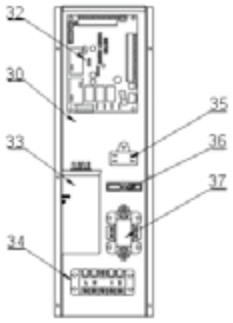
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| LED display | 2700-E22 | 21, 23, 24 | on request |
| Electronics cover | 2702-E22 | 22 | on request |
| Baseplate | 2703-E25 | 25 | on request |
| Electronics box | 2703-E26 | 26 | on request |
| Compressor | 2703-E27 | 27 | on request |
| PCB PC1001 | 2700-E32 | 28 | on request |
| Compressor condenser | 2800-E26 | 29 | on request |
| Connection terminal (5-fold) | 3000-E31 | 30 | on request |
| Transformer | 2800-E39 | 31 | on request |
| Connection terminal (2-fold) | 3001-E28 | 32 | on request |
| Fan motor capacitor | 3001-E29 | 33 | on request |
| Relay | 2670-E37 | 34 | on request |
| | | | on request |
| Not illustrated: | | | on request |
| Display extension cable 10m | 3000-E32 | | on request |
| Display case | 3000-E33 | | on request |
| Temperature sensor | 2670-E42 | | on request |
| Screw connection 1½" x 50 mm | 02357 | | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Quick 13

Art. 2704




| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front panel | 2703-E7 | 1 | on request |
| Fan protection | 2703-E2 | 2 | on request |
| Fan | 2703-E3 | 3 | on request |
| Panel left | 2702-E4 | 4 | on request |
| Fan motor mount | 2703-E5 | 5 | on request |
| Finned heat exchanger | 2703-E6 | 6 | on request |
| Cover | 2702-E7 | 7 | on request |
| Fan motor | 2801-E5 | 8 | on request |
| Partition wall | 2702-E9 | 9 | on request |
| Manometer | 2700-E12 | 10 | on request |
| Flow switch | 2670-E16 | 11 | on request |
| Titanium heat exchangers | 2704-E17 | 12 | on request |
| Aperture on the right | 2702-E12 | 13 | on request |
| LED display | 2700-E22 | 14, 15, 16, 27, 28 | on request |
| Waterproof cover | 2700-E14 | 17 | on request |
| Cable gland | 2700-E15 | 18 | on request |
| Throttle | 2704-E19 | 19 | on request |
| Valve needle | 3000-E22 | 20 | on request |
| Filter | 2703-E17 | 21 | on request |
| Low pressure switch | 2670-E9 | 22 | on request |

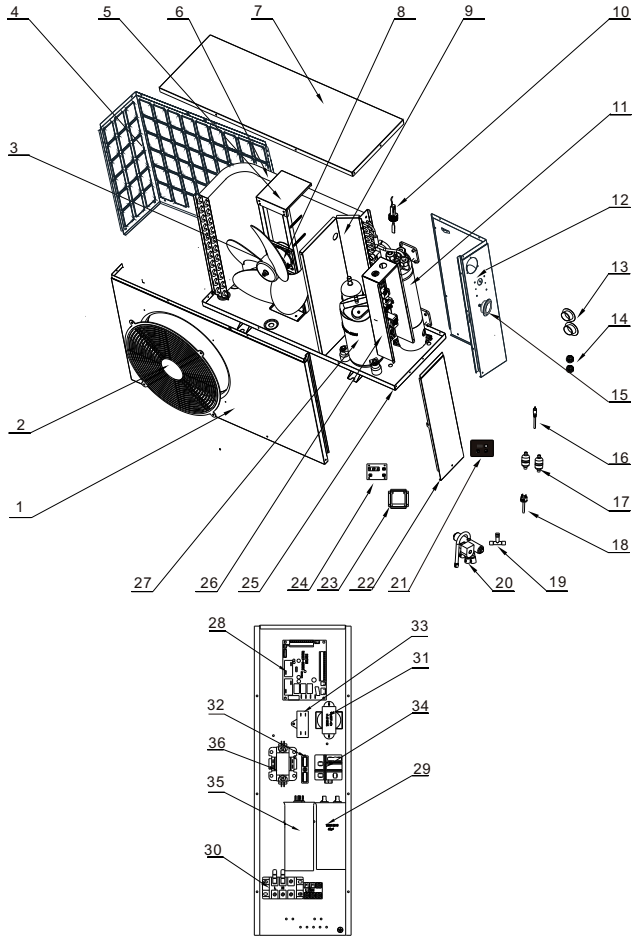
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| High pressure switch | 2670-E8 | 23 | on request |
| T-piece | 2700-E21 | 24 | on request |
| 4-way valve | 2704-E25 | 25 | on request |
| Electronics cover | 2704-E26 | 26 | on request |
| Baseplate | 2704-E29 | 29 | on request |
| Electronics box | 2704-E30 | 30 | on request |
| Compressor | 2704-E31 | 31 | on request |
| PCB PC1001 | 2700-E32 | 32 | on request |
| Compressor condenser | 2800-E26 | 33 | on request |
| Connection terminal (5-fold) | 3000-E31 | 34 | on request |
| Compressor protection | 2802-E31 | 35 | on request |
| Connection terminal (2-fold) | 3001-E28 | 36 | on request |
| Ventilatormotoren-capacitor | 3001-E29 | 37 | on request |
| | | | on request |
| Not illustrated: | | | on request |
| Display extension cable 10m | 3000-E32 | | on request |
| Display case | 3000-E33 | | on request |
| Temperature sensor | 2670-E42 | | on request |
| Screw connection 1½" x 50 mm | 02357 | | on request |



Technical specifications are subject to change without prior notice.

## MIDA.Quick 17

Art. 2705







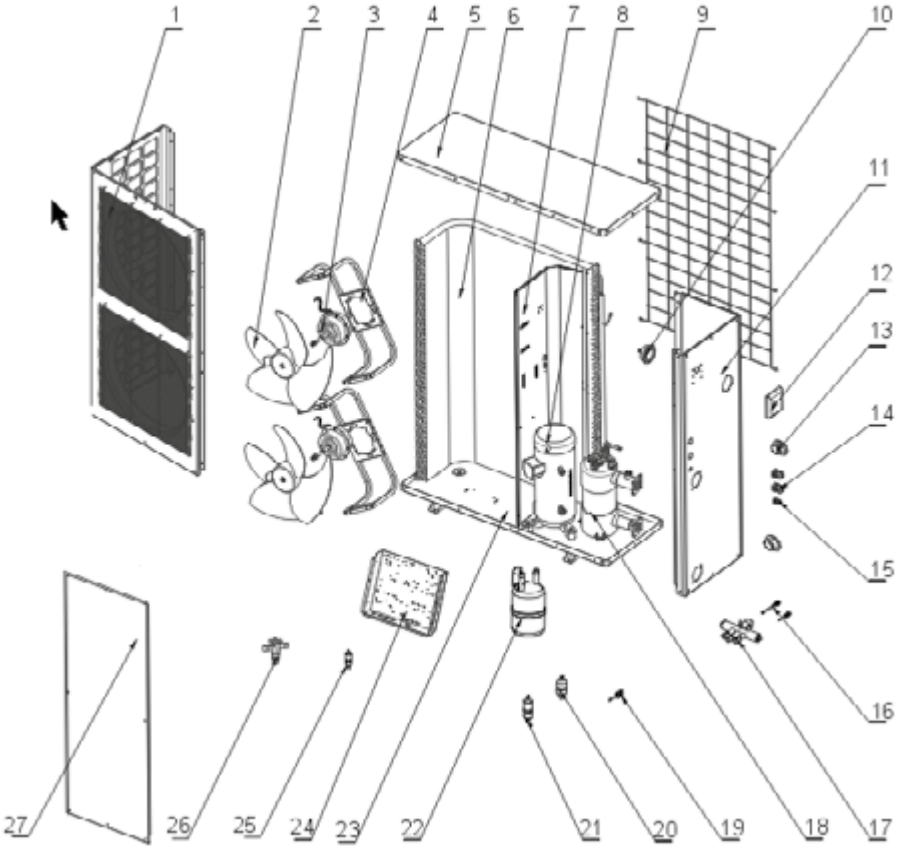
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front panel | 2705-E1 | 1 | on request |
| Fan protection | 2703-E2 | 2 | on request |
| Fan | 2703-E3 | 3 | on request |
| Panel left | 2705-E4 | 4 | on request |
| Fan motor mount | 2705-E5 | 5 | on request |
| Finned heat exchanger | 2705-E6 | 6 | on request |
| Cover | 2705-E7 | 7 | on request |
| Fan motor | 2801-E5 | 8 | on request |
| Partition wall | 2705-E9 | 9 | on request |
| Flow Switch | 2670-E16 | 10 | on request |
| Titanium heat exchangers | 2705-E19 | 11 | on request |
| Aperture on the right | 2705-E12 | 12 | on request |
| Waterproof cover | 2700-E14 | 13 | on request |
| Cable gland | 2700-E15 | 14 | on request |
| Manometer | 2700-E12 | 15 | on request |
| Valve needle | 3000-E22 | 16 | on request |
| Filter | 2703-E17 | 17 | on request |
| Low pressure switch | 2670-E9 | 18 | on request |
| Tee | 2700-E21 | 19 | on request |
| 4-way valve | 2670-E11 | 20 | on request |
| LED display | 2700-E22 | 21, 23, 24 | on request |

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Electronics cover | 2705-E22 | 22 | on request |
| Baseplate | 2705-E25 | 25 | on request |
| Electronics box | 2705-E26 | 26 | on request |
| Compressor | 2705-E27 | 27 | on request |
| PCB PC1001 | 2700-E32 | 28 | on request |
| Compressor condenser | 2800-E26 | 29 | on request |
| Terminal block (3-fold) | 2705-E30 | 30 | on request |
| Transformer | 2800-E39 | 31 | on request |
| Connection terminal (2-fold) | 3001-E28 | 32 | on request |
| Fan motors capacitor | 3001-E29 | 33 | on request |
| Relay | 2705-E34 | 34 | on request |
| Compressor condenser | 3000-E35 | 35 | on request |
| Compressor protection | 2802-E31 | 36 | on request |
| | | | |
| Not illustrated: | | | |
| Display extension cable 10m | 3000-E32 | | on request |
| Display case | 3000-E33 | | on request |
| Temperature sensor | 2670-E42 | | on request |
| Screw connection 1½" x 50 mm | 02357 | | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Quick 21

Art. 2706



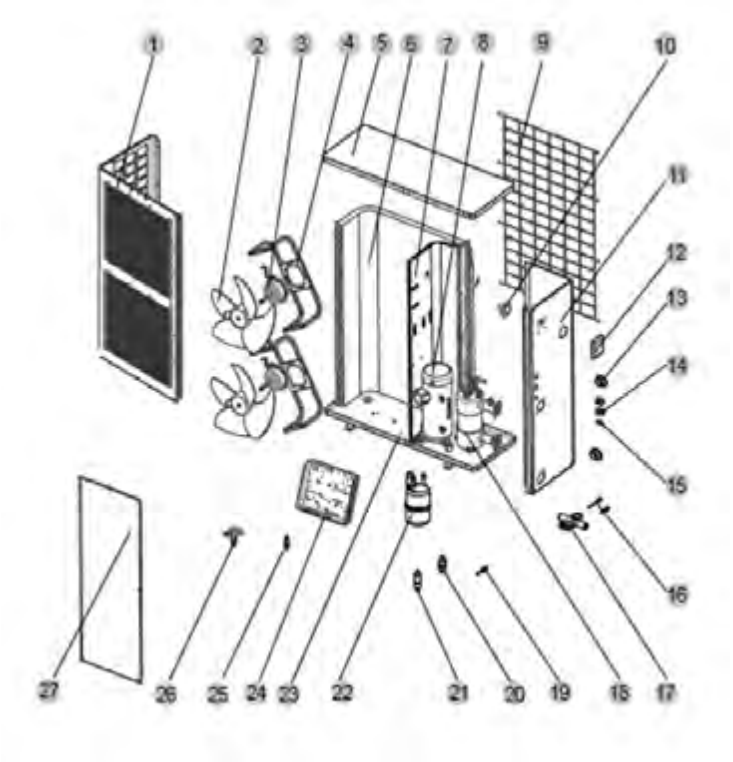

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front panel on the left | 2706-E1 | 1 | on request |
| Fan | 2703-E3 | 2 | on request |
| Fan motor | 2700-E8 | 3 | on request |
| Fan motor bracket | 2706-E4 | 4 | on request |
| Cover | 2706-E5 | 5 | on request |
| Finned heat exchanger | 2706-E6 | 6 | on request |
| Partition wall | 2706-E7 | 7 | on request |
| Compressor | 2706-E8 | 8 | on request |
| Protective grille | 2706-E9 | 9 | on request |
| Manometer | 2703-E15 | 10 | on request |
| Right aperture | 2706-E11 | 11 | on request |
| LED display | 2700-E22 | 12 | on request |
| Pipe connection | 2706-E13 | 13 | on request |
| Cable gland | 2706-E14 | 14 | on request |
| Cable gland | 2706-E15 | 15 | on request |
| Valve needle | 3000-E22 | 16 | on request |
| 4-way check valve | 2706-E17 | 17 | on request |

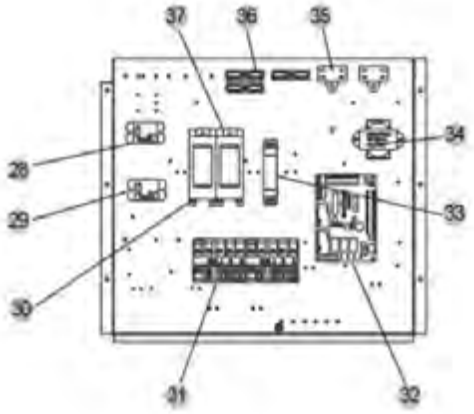
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Titanium heat exchanger | 2706-E20 | 18 | on request |
| High pressure switch | 2670-E8 | 19 | on request |
| Filter | 2670-E7 | 20 | on request |
| Extender | 2706-E21 | 21 | on request |
| Liquid container | 2706-E22 | 22 | on request |
| Base plate | 2706-E23 | 23 | on request |
| Electronics box | 2706-E24 | 24 | on request |
| Extender | 2706-E25 | 25 | on request |
| Thermal expansion valve | 2706-E26 | 26 | on request |
| Front panel | 2706-E27 | 27 | on request |
| | | | |
| Not illustrated | | | |
| Display extension cable 10 m | 3000-E32 | | on request |
| Display housing | 3000-E33 | | on request |
| Temperature sensor | 2670-E42 | | on request |
| Screw connection 1½ „x 50 mm | 02357 | | on request |

Technical specifications are subject to change without prior notice.

## MIDA.Quick 26

Art. 2707



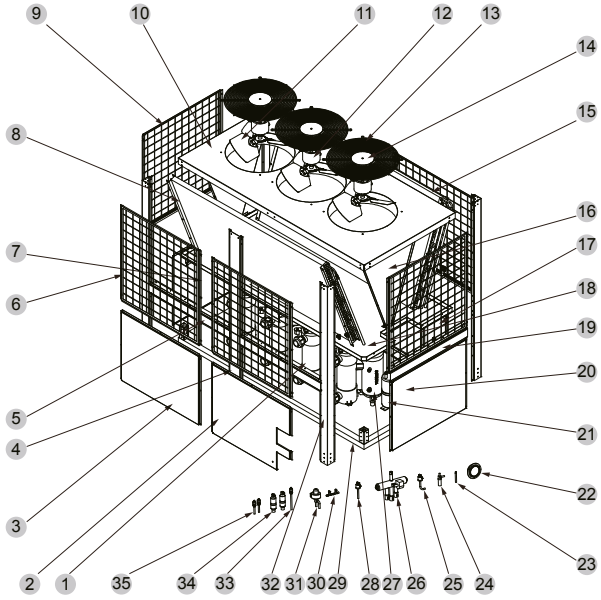

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Front panel on the left | 2706-E1 | 1 | on request |
| Fan | 2703-E3 | 2 | on request |
| Fan motor | 2801-E5 | 3 | on request |
| Fan motor holder | 2706-E4 | 4 | on request |
| Housing cover | 2706-E5 | 5 | on request |
| Finned heat exchanger | 2706-E6 | 6 | on request |
| Partition wall | 2706-E7 | 7 | on request |
| Compressor | 2707-E8 | 8 | on request |
| Protective grille | 2706-E9 | 9 | on request |
| Manometer | 2703-E15 | 10 | on request |
| Right aperture | 2707-E11 | 11 | on request |
| LED display | 2700-E22 | 12 | on request |
| Pipe connection | 2706-E13 | 13 | on request |
| Cable gland | 2706-E14 | 14 | on request |
| Cable gland | 2706-E15 | 15 | on request |
| Needle valve | 3000-E22 | 16 | on request |

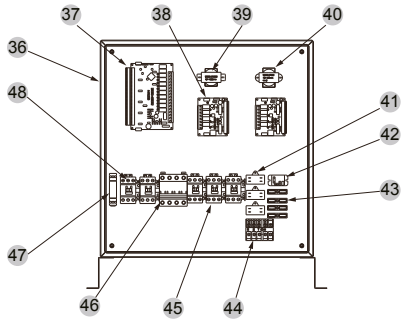
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| 4-way valve | 2672-E12 | 17 | on request |
| Titanium heat exchanger | 2706-E20 | 18 | on request |
| High pressure switch | 2670-E8 | 19 | on request |
| Filter | 2707-E20 | 20 | on request |
| Reducer | 2706-E21 | 21 | on request |
| Relaxation tank | 2706-E22 | 22 | on request |
| Floor pan | 2706-E23 | 23 | on request |
| Electronics box | 2706-E24 | 24 | on request |
| Reducer | 2672-E7 | 25 | on request |
| Thermal expansion valve | 2706-E26 | 26 | on request |
| Housing cover on the right | 2706-E11 | 27 | on request |
| Relay 20A | 2707-E28 | 28 | on request |
| Relay 30A | 2707-E29 | 29 | on request |
| Contactor | 2707-E30 | 30 | on request |
| 5-way clipboard | 2707-E31 | 31 | on request |
| PC 1001 Mida.Quick | 2700-E32 | 32 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Public 95

Art. 2682



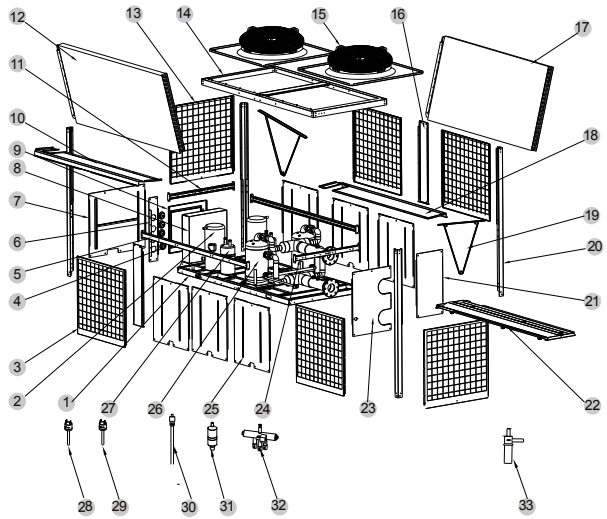

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Titanium tube heat exchanger | 2682-E1 | 1 | on request |
| Left side | 2682-E2 | 2 | on request |
| Before the back plate | 2682-E3 | 3 | on request |
| In the column | 2682-E4 | 4 | on request |
| Fore-and-aft middle beam | 2682-E5 | 5 | on request |
| Side of the net | 2682-E6 | 6 | on request |
| Side panel | 2682-E7 | 7 | on request |
| Finned heat exchanger | 2682-E8 | 8 | on request |
| Side mesh 2 | 2682-E9 | 9 | on request |
| Top cover plate | 2682-E10 | 10 | on request |
| Axial flow fan | 2682-E11 | 11 | on request |
| Axial motor | 2682-E12 | 12 | on request |
| Fan screen | 2682-E13 | 13 | on request |
| Protective mesh cover | 2682-E14 | 14 | on request |
| Finned heat exchanger | 2682-E15 | 15 | on request |
| Condenser mounting plate | 2682-E16 | 16 | on request |
| Right side | 2682-E17 | 17 | on request |
| Water pans | 2682-E18 | 18 | on request |
| Left right middle beam | 2682-E19 | 19 | on request |
| Right side of the plate | 2682-E20 | 20 | on request |
| Gas-liquid separator | 2682-E31 | 21 | on request |
| Pressure gauge | 2682-E22 | 22 | on request |
| Get straight through | 2682-E23 | 23 | on request |
| Unloading valve | 2682-E24 | 24 | on request |
| Pressure switch | 2682-E25 | 25 | on request |
| Four-way valve | 2682-E26 | 26 | on request |
| Compressor | 2682-E27 | 27 | on request |
| Pressure switch | 2682-E28 | 28 | on request |
| Chassis | 2682-E29 | 29 | on request |
| T-piece | 2682-E30 | 30 | on request |
| Electronic expansion valve | 2682-E31 | 31 | on request |
| Side pillar | 2682-E32 | 32 | on request |
| Needle valve | 2682-E33 | 33 | on request |
| Filter | 2682-E34 | 34 | on request |
| Needle valve | 2682-E35 | 35 | on request |
| Electrical box body | 2682-E36 | 36 | on request |
| PC8001 | 2682-E37 | 37 | on request |
| BHB10 | 2682-E38 | 38 | on request |
| Power transformer | 2682-E39 | 39 | on request |
| Power transformer | 2682-E40 | 40 | on request |
| Fan capacitor | 2682-E41 | 41 | on request |
| Relay | 2682-E42 | 42 | on request |
| Two position connector | 2682-E43 | 43 | on request |
| Five position connector | 2682-E44 | 44 | on request |
| Ac contactor | 2682-E45 | 45 | on request |
| Air switch | 2682-E46 | 46 | on request |
| Three-phase ac monitor | 2682-E47 | 47 | on request |
| AC contactor | 2682-E48 | 48 | on request |

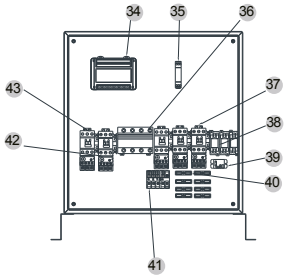


Technical specifications are subject to change without prior notice.

# MIDA.Public 145

Art. 2684



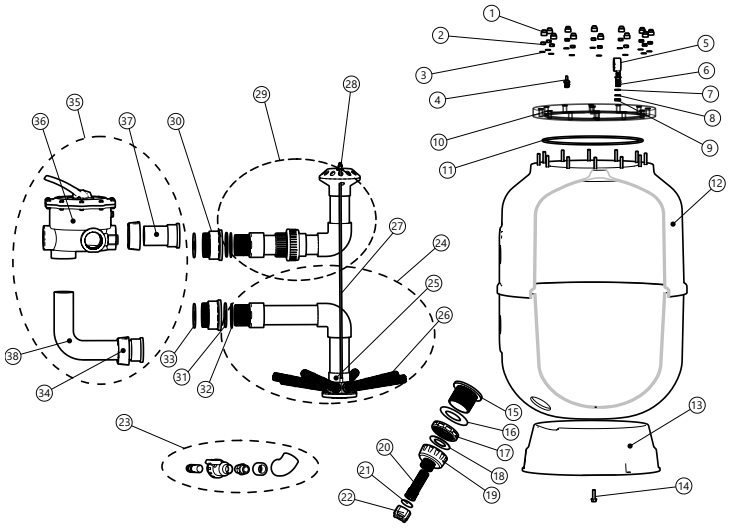

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Chassis | 2684-E1 | 1 | on request |
| Compressor | 2684-E2 | 2 | on request |
| Protecting Net | 2684-E3 | 3 | on request |
| Pressure gage | 2684-E4 | 4 | on request |
| Front Back Middle Beam | 2684-E5 | 5 | on request |
| Fixation Plate Fixation Plate | 2684-E6 | 6 | on request |
| Electric Box Side Plate | 2684-E7 | 7 | on request |
| Electric Box | 2684-E8 | 8 | on request |
| Electric Box Cover | 2684-E9 | 9 | on request |
| Right Water Baffle | 2684-E10 | 10 | on request |
| Left Right Middle Beam | 2684-E11 | 11 | on request |
| Finned Tube Heat Exchanger | 2684-E12 | 12 | on request |
| Left Right Protecting Net | 2684-E13 | 13 | on request |
| Top Cover | 2684-E14 | 14 | on request |
| Outer Rotor Motor | 2684-E15 | 15 | on request |
| Middle Upright | 2684-E16 | 16 | on request |
| Finned Tube Heat Exchanger | 2684-E17 | 17 | on request |
| Left Water Baffle | 2684-E18 | 18 | on request |
| Condenser Installation Plate | 2684-E19 | 19 | on request |
| Upright | 2684-E20 | 20 | on request |
| Water Outlet Plate one | 2684-E31 | 21 | on request |
| Water Pan | 2684-E22 | 22 | on request |
| Water Outlet Plate | 2684-E23 | 23 | on request |
| Left Right Middle Beam | 2684-E24 | 24 | on request |
| Middle Panel | 2684-E25 | 25 | on request |
| Titanium Heat Exchanger | 2684-E26 | 26 | on request |
| Gas-liquid Separator | 2684-E27 | 27 | on request |
| Pressure Switch | 2684-E28 | 28 | on request |
| Pressure Switch | 2684-E29 | 29 | on request |
| Needle Valve | 2684-E30 | 30 | on request |
| Filter | 2684-E31 | 31 | on request |
| Four-way Valve | 2684-E32 | 32 | on request |
| Electronic Expansion Valve | 2684-E33 | 33 | on request |
| PC4001 Controller | 2684-E34 | 34 | on request |
| Three-phase AC Detector | 2684-E35 | 35 | on request |
| Circuit Breaker | 2684-E36 | 36 | on request |
| AC Contactor | 2684-E37 | 37 | on request |
| Middle Relay | 2684-E38 | 38 | on request |
| Relay | 2684-E39 | 39 | on request |
| 2-Position Wire Holder | 2684-E40 | 40 | on request |
| 5-Position Wire Holder | 2684-E41 | 41 | on request |
| AC Contactor | 2684-E42 | 42 | on request |
| AC Contactor | 2684-E43 | 43 | on request |

Technical specifications are subject to change without prior notice.

# FILTER

## MIDA.Globe GRP Filter

Art. 765, 766



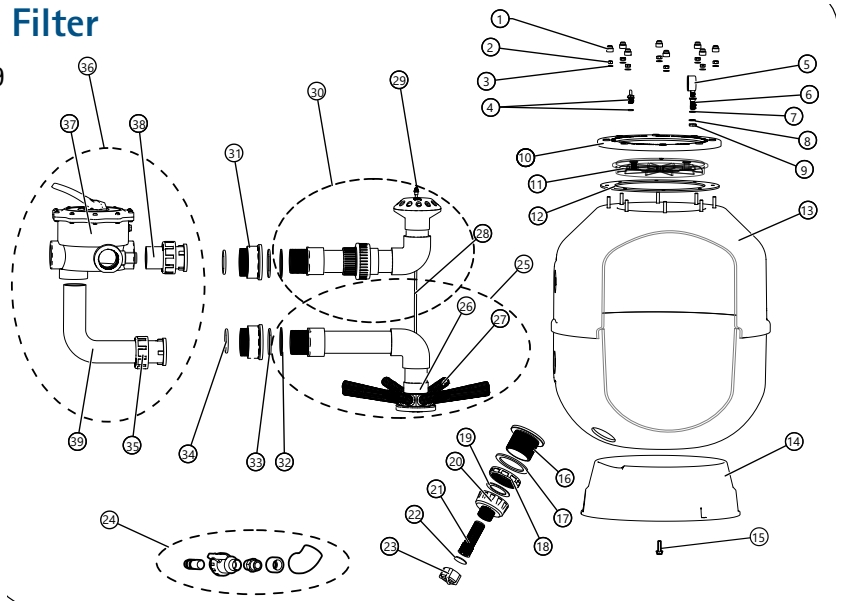
| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Plastic nut cover | 765-E1 | 1 | on request |
| Nickel-plated brass nut M8 | 765-E2 | 2 | on request |
| V4A washer M8 | 765-E3 | 3 | on request |
| Vent plug + oring | 765-E4 | 4 | on request |
| V4A thread pressure meter 1/8 " | 765-E5 | 5 | on request |
| V4A reducing adapter 1/4 "-1/8" | 765-E6 | 6 | on request |
| Adapter flat seal | 765-E7 | 7 | on request |
| V4A adapter disc | 765-E8 | 8 | on request |
| V4A adapter nut | 765-E9 | 9 | on request |
| Transparent cover Ø400 thickness 25mm | 765-E10 | 10 | on request |
| Ball cover O-ring | 765-E11 | 11 | on request |
| GRP body Ø500 | 765-E12 | 12A | on request |
| GRP body Ø600 | 766-E12 | 12B | on request |
| Globe Filter Base 500-600 | 765-E13 | 13 | on request |
| Hexagon screw with washer M8 | 765-E14 | 14 | on request |
| Sand drain adapter 2.5 " | 765-E15 | 15 | on request |
| Sand drain adapter seal | 765-E16 | 16 | on request |
| Sand drain nut 2.5 " | 765-E17 | 17 | on request |
| Sand / water drainage reduction seal | 765-E18 | 18 | on request |
| Sand / water drain reducer 2.5 "-1.25" | 765-E19 | 19 | on request |
| Drain filter nozzle 1 " | 765-E20 | 20 | on request |
| Water drainage seal | 765-E21 | 21 | on request |
| 1.25 "water drainage screw | 765-E22 | 22 | on request |
| Drain valve kit 25mm | 765-E23 | 23 | on request |
| Lower inner tube set Globe 500 | 765-E24 | 24A | on request |
| Lower inner tube set Globe 600 | 766-E24 | 24B | on request |
| Globe 500 side distributor 6 outlets | 765-E25 | 25A | on request |
| Globe 600 side distributor 8 outlets | 766-E25 | 25B | on request |
| Globe 500 filter on the side | 765-E26 | 26A | on request |
| Globe 600 filter on the side | 766-E26 | 26B | on request |
| Air intake pipe 6mm for Globe 500 | 765-E27 | 27A | on request |
| Air intake pipe 6mm for Globe 600 | 766-E27 | 27B | on request |
| Air intake nozzle 6mm | 765-E28 | 28 | on request |
| Globes inner tube set for Globe 500 | 765-E29 | 29A | on request |
| Globe 600 upper inner tube set | 766-E29 | 29B | on request |
| Globe 500 filter external union base 1.5 " | 765-E30 | 30A | on request |
| Globe 600 Fitler external union base 2 " | 766-E30 | 30B | on request |
| Globe 500 Union Basis O-Ring 1,5 " | 765-E31 | 31A | on request |
| Globe 600 Union Base O-Ring 2 " | 766-E31 | 31B | on request |
| Globe 500 flat gasket | 765-E32 | 32A | on request |
| Globe 600 flat gasket | 766-E32 | 32B | on request |
| O-ring with Globe 500 socket | 765-E33 | 33A | on request |
| Globe 600 socket O-ring | 766-E33 | 33B | on request |
| Globe 500 union nut | 765-E34 | 34A | on request |
| Globe 600 union nut | 766-E34 | 34B | on request |
| Complete valve set 1.5 „Globe 500 | 765-E35 | 35A | on request |
| Complete valve set 2 „ Globe 600 | 766-E35 | 35B | on request |
| Selector valve 1.5 " | 765-E36 | 36A | on request |
| Selector valve 2 " | 766-E36 | 36B | on request |
| Valve connector 1.5 " | 765-E37 | 37A | on request |
| Valve connector 2 " | 766-E37 | 37B | on request |
| Valve L-shaped angle 1.5 " | 765-E38 | 38A | on request |
| Valve L-shaped angle 2 " | 766-E38 | 38B | on request |



Technical specifications are subject to change without prior notice.

## MIDA.Rock GRP Filter

Art. 756, 757, 758, 759

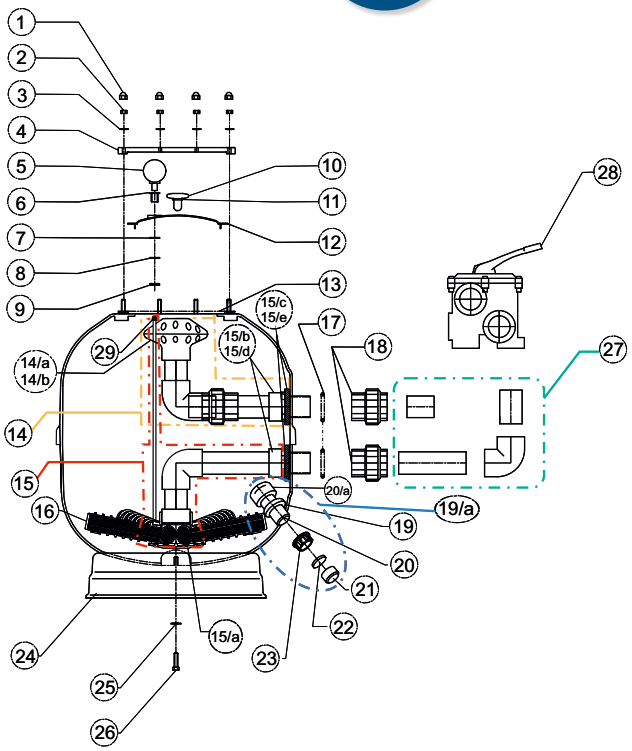


| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Plastic nut cover | 756-E1 | 1 | on request |
| Nickel-plated brass nut M8 | 756-E2 | 2 | on request |
| V4A washers M8 | 756-E3 | 3 | on request |
| Vent screw with O-ring | 756-E4 | 4 | on request |
| V4A pressure gauge 1/8 " | 756-E5 | 5 | on request |
| V4A reducing adapter 1/4 "-1/8" | 756-E6 | 6 | on request |
| Adapter flat seal | 756-E7 | 7 | on request |
| V4A adapter disc | 756-E8 | 8 | on request |
| V4A adapter nut | 756-E9 | 9 | on request |
| Lid flange Ø350mm | 756-E10 | 10 | on request |
| Lid, transparent Ø250 | 756-E11 | 11 | on request |
| Lid flange seal | 756-E12 | 12 | on request |
| GRP filter housing Ø500 | 756-E13 | 13A | on request |
| GRP filter housing Ø600 | 757-E13 | 13B | on request |
| GRP filter housing Ø750 | 758-E13 | 13C | on request |
| GRP filter housing Ø900 | 759-E13 | 13D | on request |
| Filter base 500-600 | 756-E14 | 14A | on request |
| Filter base 800-950 | 758-E14 | 14B | on request |
| Hexagon screw with washer M8 | 765-E14 | 15 | on request |
| Sand drainage adapter 2.5 " | 765-E15 | 16 | on request |
| Sand dump adapter seal | 765-E16 | 17 | on request |
| Lock nut 2.5 " | 765-E17 | 18 | on request |
| Seal for water drainage | 765-E18 | 19 | on request |
| Reduction 2.5 „-1.25" for water drainage | 765-E19 | 20 | on request |
| Filter for drainage 1 " | 765-E20 | 21 | on request |
| Seal for screw cap | 765-E21 | 22 | on request |
| Screw cap 1.25 " | 765-E22 | 23 | on request |
| Drain valve kit 25mm | 765-E23 | 24 | on request |
| Mida.Rock 500 inner tube set below | 756-E25 | 25A | on request |
| Mida.Rock 600 inner tube set below | 757-E25 | 25B | on request |
| Mida.Rock 750 inner tube set below | 758-E25 | 25C | on request |
| Mida.Rock 900 inner tube set below | 759-E25 | 25D | on request |
| Mida.Rock 500 filter distributor 6 connections | 756-E26 | 26A | on request |
| Mida.Rock 600-750-900 filter distributor 8 connections | 757-E26 | 26B | on request |
| Mida.Rock 500 filter cartridges | 756-E27 | 27A | on request |
| Mida.Rock 600 filter cartridges | 757-E27 | 27B | on request |
| Mida.Rock 750 filter cartridges | 758-E27 | 27C | on request |
| Mida.Rock 900 filter cartridges | 759-E27 | 27D | on request |
| Vent pipe 6mm for Mida.Rock 500 | 756-E28 | 28A | on request |
| Vent pipe 6mm for Mida.Rock 600 | 757-E28 | 28B | on request |
| Vent pipe 6mm for Mida.Rock 750 | 758-E28 | 28C | on request |
| Vent pipe 6mm for Mida.Rock 900 | 759-E28 | 28D | on request |
| Vent nozzle 6mm | 756-E29 | 29 | on request |
| Mida.Rock 500 inner tube set above | 756-E30 | 30A | on request |
| Mida.Rock 600 inner tube set above | 757-E30 | 30B | on request |
| Mida.Rock 750 inner tube set above | 758-E30 | 30C | on request |
| Mida.Rock 9000 inner tube set above | 759-E30 | 30C | on request |
| Mida.Rock 500 screw connection 1.5 " | 756-E31 | 31A | on request |
| Mida.Rock 6000-750-900 screw connection 2 " | 757-E31 | 31B | on request |
| Mida.Rock 500 inner flat seal | 756-E32 | 32A | on request |
| Mida.Rock 600-750-900 Inner flat seal | 757-E32 | 32B | on request |
| Mida.Rock 500 inner O-ring for screw connection 1.5 " | 756-E33 | 33A | on request |
| Mida.Rock 600-750-900 Inner O-ring for screw connection 2 " | 757-E33 | 33B | on request |
| Mida.Rock 500 O-ring connection screw 1.5 " | 756-E34 | 34A | on request |
| Mida.Rock 600-750-900 O-ring connection screw connection 2 " | 757-E34 | 34B | on request |
| Mida.Rock 500 union nut | 756-E35 | 35A | on request |
| Mida.Rock 600-750-900 union nut | 757-E35 | 35B | on request |
| Complete valve set 1.5 "Mida.Rock 500 | 765-E35 | 36A | on request |
| Complete valve set 2 "Mida.Rock 600-750-900 | 765-E36 | 36B | on request |
| 6-way valve 2 " | 310-C | 37A | on request |
| 6-way valve 2 " | 320-C | 37B | on request |
| Valve connection pipe 1.5 " | 765-E37 | 38A | on request |
| Valve connection pipe 2 " | 766-E37 | 38B | on request |
| Valve connection bend 1.5 " | 765-E38 | 39 | on request |
| Valve connection bend 2 " | 766-E38 | 39 | on request |

Technical specifications are subject to change without prior notice.

# MIDA.Carbon GRP Filter

Art. 718, 719, 720, 721




## Art. 718 (500 mm)

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Filter finger | 718-E1 | 16 | on request |
| Inside set above | 718-E2 | 14 | on request |
| Interior set below | 718-E3 | 15 | on request |
| Adapter screw connection d50 mm x 1 1/2" | 718-E4 | 18 | on request |
| O-ring | 718-E4.1 | 17 | on request |
| Filter foot | 718-E5 | 24 | on request |
| Cover complete transparent | 718-E10 | 6-12 | on request |
| Flange for filter cover | 718-E11 | 4 | on request |
| Flange seal for filter cover | 718-E12 | 13 | on request |
| Screw set for filter cover | 718-E13 | 1-3 | on request |
| Vent plug with O-ring | 718-E14 | 10 + 11 | on request |
| manometer | 718-E15 | 5 | on request |
| Drain valve complete | 718-E16 | 19a | on request |

## Art. 719 (600 mm)

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Filter finger | 719-E1 | 16 | on request |
| Inside set above | 719-E2 | 14 | on request |
| Interior set below | 719-E3 | 15 | on request |
| Adapter screw connection d50 mm x 1 1/2" | 719-E4 | 18 | on request |
| O-ring | 719-E4.1 | 17 | on request |
| Filter foot | 719-E5 | 24 | on request |
| Cover complete transparent | 718-E10 | 6-12 | on request |
| Flange for filter cover | 718-E11 | 4 | on request |
| Flange seal for filter cover | 718-E12 | 13 | on request |
| Screw set for filter cover | 718-E13 | 1-3 | on request |
| Vent plug with O-ring | 718-E14 | 10 + 11 | on request |
| manometer | 718-E15 | 5 | on request |
| Drain valve complete | 718-E16 | 19a | on request |

## Art. 720 (750 mm)

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Filter finger | 720-E1 | 16 | on request |
| Inside set above | 720-E2 | 14 | on request |
| Interior set below | 720-E3 | 15 | on request |
| Adapter screw connection d50 mm x 1 1/2" | 720-E4 | 18 | on request |
| O-ring | 720-E4.1 | 17 | on request |
| Filter foot | 720-E5 | 24 | on request |
| Cover complete transparent | 718-E10 | 6-12 | on request |
| Flange for filter cover | 718-E11 | 4 | on request |
| Flange seal for filter cover | 718-E12 | 13 | on request |
| Screw set for filter cover | 718-E13 | 1-3 | on request |
| Vent plug with O-ring | 718-E14 | 10 + 11 | on request |
| manometer | 718-E15 | 5 | on request |
| Drain valve complete | 718-E16 | 19a | on request |

## Art. 721 (900 mm)

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Filter finger | 721-E1 | 16 | on request |
| Inside set above | 721-E2 | 14 | on request |
| Interior set below | 721-E3 | 15 | on request |
| Adapter screw connection d50 mm x 1 1/2" | 721-E4 | 18 | on request |
| O-ring | 721-E4.1 | 17 | on request |
| Filter foot | 721-E5 | 24 | on request |
| Cover complete transparent | 718-E10 | 6-12 | on request |
| Flange for filter cover | 718-E11 | 4 | on request |
| Flange seal for filter cover | 718-E12 | 13 | on request |
| Screw set for filter cover | 718-E13 | 1-3 | on request |
| Vent plug with O-ring | 718-E14 | 10 + 11 | on request |
| manometer | 718-E15 | 5 | on request |
| Drain valve complete | 718-E16 | 19a | on request |



Technical specifications are subject to change without prior notice.

## MIDA.Split Filter
Art. 751 (400 mm)

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Subshell | 751-E1 | 11 | on request |
| Front Cover | 751-E2 | 12 | on request |
| Base including screws and washers | 751-E3 | 13 | on request |
| Circlip complete | 751-E4 | 14 | on request |
| Inner ring | 751-E5 | 15 | on request |
| clamping screw | 751-E6 | 16 | on request |
| Thread roll M8 | 751-E7 | 17 | on request |
| Perforated reel MS | 751-E8 | 18 | on request |
| Seal | 751-E9 | 19 | on request |
| Waste including screws | 751-E10 | 20 | on request |
| Inlet set incl. screws | 751-E11 | 21 | on request |
| Inlet head cpl. | 751-E12 | 22 | on request |
| Vent pipe | 751-E13 | 23 | on request |
| Nipple R 1½ "-2¼" | 751-E14 | 24 | on request |
| Filter cross S | 751-E15 | 25 | on request |
| Emptying complete | 751-E16 | 26 | on request |
| Seal ³ / 8 " | 751-E17 | 27 | on request |
| Manometer ³ / 8 " | 751-E18 | 28 | on request |
| Venting cpl. | 751-E19 | 29 | on request |

## MIDA.Split Filter
Art. 753 (500 mm)

| Description | Code | Pos. | Gross Price € |
|---|---|---|---|
| Subshell | 753-E1 | 11 | on request |
| Front Cover | 753-E2 | 12 | on request |
| Base including screws and washers | 753-E3 | 13 | on request |
| Circlip complete | 753-E4 | 14 | on request |
| Inner ring | 753-E5 | 15 | on request |
| Camping screw | 751-E6 | 16 | on request |
| Thread roll M8 | 751-E7 | 17 | on request |
| Perforated reel MS | 751-E8 | 18 | on request |
| Seal | 753-E9 | 19 | on request |
| Waste including screws | 753-E10 | 20 | on request |
| Inlet set incl. screws | 753-E11 | 21 | on request |
| Inlet head cpl. | 753-E12 | 22 | on request |
| Vent pipe | 753-E13 | 23 | on request |
| Nipple R 1½ "-2¼" | 753-E14 | 24 | on request |
| Filter cross S | 753-E15 | 25 | on request |
| Emptying complete | 751-E16 | 26 | on request |
| Seal ³ / 8 " | 751-E17 | 27 | on request |
| Manometer ³ / 8 " | 751-E18 | 28 | on request |
| Venting cpl. | 751-E19 | 29 | on request |

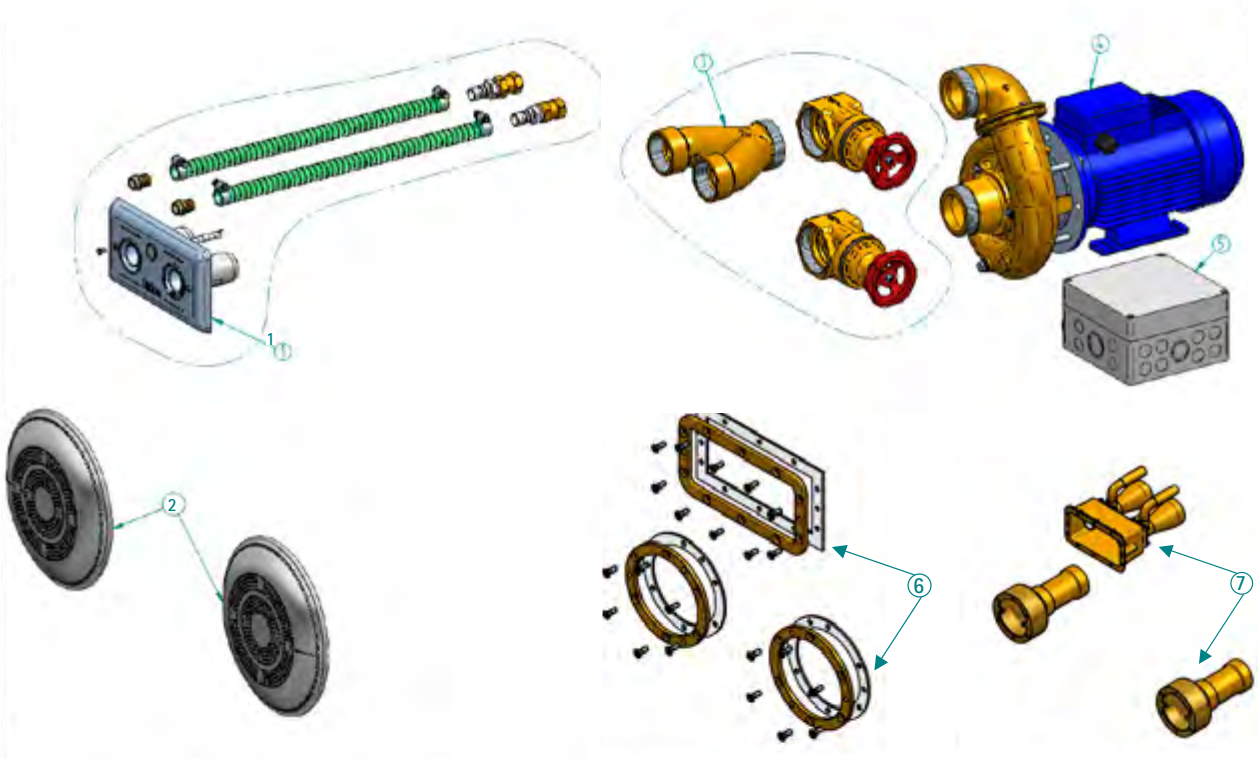
Technical specifications are subject to change without prior notice.

# JET SWIM UNIT

## JET SWIM UNIT

Evolution

Art. 988-F, 988-FE , 988-FB , 988-FEBR




| Description | Code | Position | Gross Price € |
|---|---|---|---|
| Fitting GSA Evolution | 988-7 | 1 | on request |
| Suction strainer Ø280, DN 65 | 988-6 | 2 | on request |
| Connection element GSA Evolution, gunmetal | 988-5 | 3 | on request |
| Connection element GSA Evolution, bronze | 988-5B | 3 | on request |
| Rg pump 2,6kW, gunmetal | 7754050 | 4 | on request |
| Rg pump 2,6kW, bronze | 7754051 | 4 | on request |
| Circuit GSA Evolution | 986-4 | 5 | on request |
| Liner flange, bronze | 988-3 | 6 | on request |
| Kit, gunmetal | 988-2 | 7 | on request |
| Kit, bronze | 988-2B | 7 | on request |



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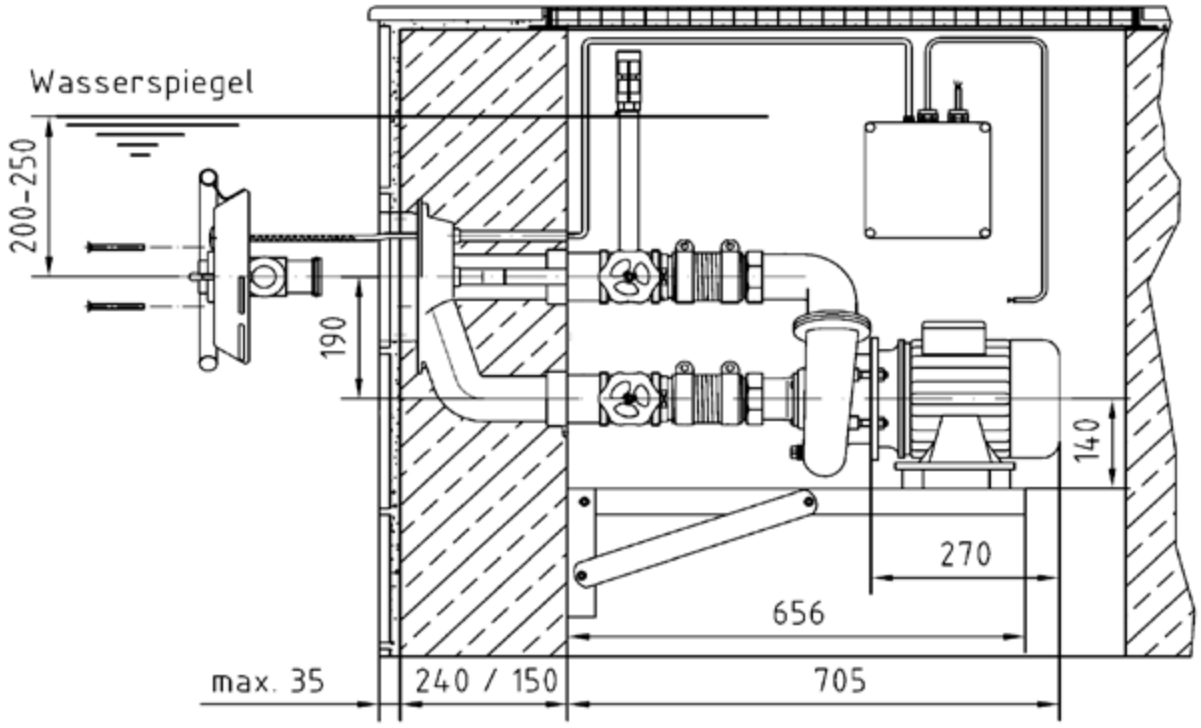
## HUGO LAHME COUNTER-CURRENT SWIMMING

Taifun Duo
Art. 984-F, 984-G, 984-FB, 984-GB




Pump

| Description | Code | Gross Price € |
|---|---|---|
| Connection set red brass for FitStar typhoon / typhoon duo | 984-1 | on request |
| Connection kit Bronze for FitStar Typhoon / Typhoon Duo | 984-1B | on request |
| Gunmetal Kit for FitStar Typhoon Duo | 984-2 | on request |
| Kit Bronze for FitStar Typhoon Duo | 984-2B | on request |
| Transition flange for prefabricated pools Rotguss for FitStar Taifun Duo | 984-3 | on request |
| Transition flange for prefabricated pools Bronze for FitStar Taifun Duo | 984-3B | on request |

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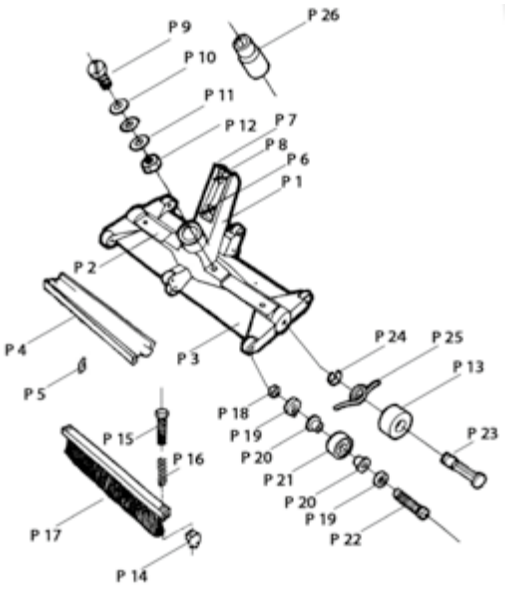
# VACUUM HEADS

## FAIRLOCKS VACUUM HEAD Art. 115

| Description | Code | Gross Price € |
|---|---|---|
| Handle | P1 | on request |
| Centre body | P2 | on request |
| Flap | P3 | on request |
| Flap seal | P4 | on request |
| Seal clip | P5 | on request |
| M6 wing nuzt | P6 | on request |
| M6 x 50 screw | P7 | on request |
| Weight | P8 | on request |
| M6 x 50 pan head screw | P9 | on request |
| M6 x 14 x 1,8 washer | P10 | on request |
| M6 vibration washer | P11 | on request |
| M6 full nut | P12 | on request |
| 50 mm wheel | P13 | on request |
| Screw holder | P14 | on request |
| M6 x 35 bold | P15 | on request |
| Brush spring | P16 | on request |
| Brush, stainless steel | P17 | on request |
| M5 nut | P18 | on request |
| Locating washer | P19 | on request |
| Half bearing | P20 | on request |
| 30 mm wheel | P21 | on request |
| M5 x 30 screw | P22 | on request |
| Axle pin | P23 | on request |
| Circle clip | P24 | on request |
| Torsion spring | P25 | on request |
| Adaptor cuff 1½" | P26 | on request |




| Spare parts | Part. no. | Gross Price € |
|---|---|---|
| A-Pack | (2 x P4 + 4 x P5) | on request |
| B-Pack | (2 x P9, 4 x P10, 2 x P11, 2 x P12) | on request |
| C-Pack | (2 x P13) | on request |
| D-Pack | (2 x P14, 2 x P15, 2 x P16, 1 x P17) | on request |
| E-Pack | (1 x P18, 2 x P19, 2 x P20, 1 x P21, 2 x P22) | on request |
| F-Pack | (3 x P21) | on request |
| G-Pack | (2 x P23, 2 x P24, 2 x P25) | on request |



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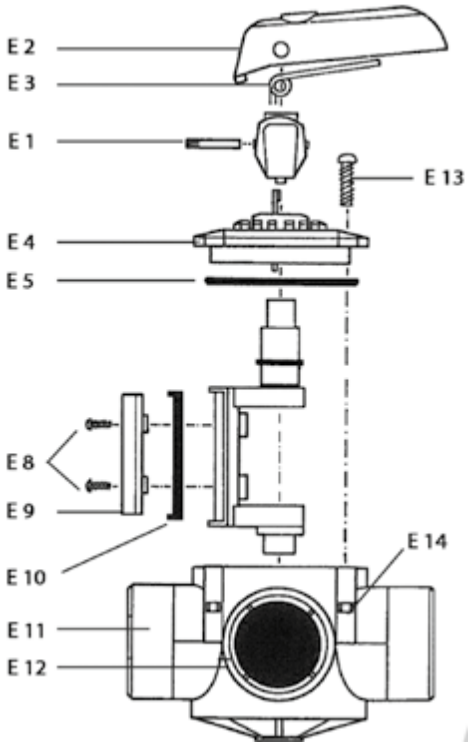
# ROTARY DISC VALVE

## MIDA.FLO ROTARY DISC VALVE

Art. 301 (2-way), Art. 306 (3-way)

| Description | Code | Gross Price € |
|---|---|---|
| Handle retaining pin | 301-E1 | on request |
| Handle | 301-E2 | on request |
| Handle spring | 301-E3 | on request |
| Valve lid (cover) | 301-E4 | on request |
| Valve body / lid o-ring | 301-E5 | on request |
| Disc seal retainer screw | 301-E8 | on request |
| Disc seal retainer | 301-E9 | on request |
| 2-way valve body PVC | 301-E11PVC | on request |
| 2-way valve body ABS | 301-E11ABS | on request |
| 3-way valve body PVC | 306-E12PVC | on request |
| 3-way valve vody ABS | 306-E12ABS | on request |
| Lid bolts | 301-E13 | on request |
| Nuts (molded-in) | 301-E14 | on request |
| Rotary disc stem with all o-rings | 301-E15 | on request |
| Valve top assembly kit | 301-E 50 (E1-E10) | on request |

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## NOTE

- Prices valid from January 1st, 2021
- All prices are ex works Eichenzell, plus packaging and shipping
- Spare part prices are excluded from discounts
- Surcharge for small quantities: 15 euros for orders under 50 euros net good value
- Returns (in original packaging or changes in raw material prices):

15% processing and re-storage fee

- With the appearance of this price list, all previous price lists and special offers become invalid
- Price adjustments in the event of price increases by upstream suppliers are possible
- Errors, price and technical changes reserved
- Color and dimension deviations correspond to the usual tolerances
- We reserve the right to change the range, model and color
- No warranty is provided for printing errors
- Place of jurisdiction and place of performance is our place of business

## WARRANTY INFORMATION

Unless explicitly mentioned otherwise, the statutory applies
Liability for defects with a duration of 2 years according to §438 (1) No. 3 BGB
The statutory warranty remains unaffected.

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