



SWIMMING POOL

TECHNOLOGY

PRODUCT CATALOG 2024/25

Over 10,000 pool products
to make your pool oasis
a reality.

Poolpassion since 1974





MIDAS WORKS
THANKS TO OWN
PHOTOVOLTAIC SYSTEM
WITH GREEN
POWER.



THE FUTURE IS GREEN!

MIDAS is also concerned about energy efficiency. At our new company headquarters in Neuhof-Dorfborn, we have therefore installed a photovoltaic system on our main building, which supplies us with green electricity.

Energy saving is also becoming increasingly important in the swimming pool industry. Thanks to modern technology, there are many solutions here too. That is why we have also highlighted energy-efficient products in the catalog. Simply look out for this symbol on the following pages:

**ENERGY
SAVING**





POOLPASSION
SINCE 1974.



1. FILTERS & VALVES
2. PUMPS & COUNTER-CURRENT SWIMMING SYSTEMS
3. DOSING SYSTEMS
4. WATER HEATING, SOLAR & DEHUMIDIFICATION
5. POOL CLEANING
6. PERIPOR STONES & SWIMMING POOL LINERS
7. POOL COVERS
8. SWIMMING POOL EQUIPMENT
9. INSTALLATION PARTS
10. POOL LIGHTING
11. PVC-U MOLDED PARTS & INSTALLATION ACCESSORIES



WELCOME TO MIDAS!



Elena Jakobson
Managing Director



Marco Schneider
Managing Director

Dear customers,

Welcome to our new 2024/2025 pool industry catalog and full of anticipation for the coming season. After intensive customer workshops and a lively exchange with you, our valued customers, we have received very positive signals for the coming season. The mood radiates confidence and cheerful optimism.

With this in mind, we are proud to present our product range, which brings together some top products from the world of pool construction. The current situation offers opportunities for further development. We are determined to use our creativity and tireless commitment to offer you innovative and inspiring products.

Discover our wide range of high-quality materials, modern designs and innovative technologies that make the swimming pool a place of relaxation and enjoyment for your customers.

In addition to the products, you will also find plenty of ideas, inspiration and expert knowledge to make your pool projects a complete success.

For us, the current highlights for 2024 include :

- Water-cooled circulation pump Aquagem Inver Master VS..... 48
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- Safety pool cover CoverSeal.....186
- Flow meter Badu Flow Sonic+.....268

We invite you to work with us and together we can create a successful season including a high level of swimming enjoyment for your customers.

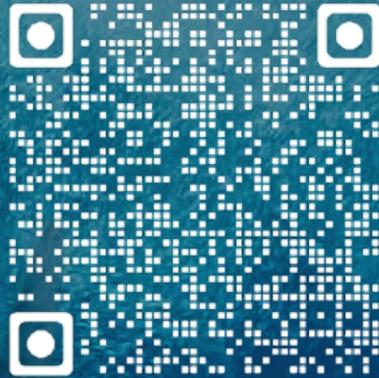
Your MIDAS team

Elena Jakobson

Marco Schneider

YOUR CONTACT AT MIDAS

We are here for you! Mon - Thu: 08:00 - 17:00 | Fri: 07:30 - 16:00



Your contacts at a
glance

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MIDAS - AT THE CENTER OF GERMANY



The MIDAS headquarters are located in the Neuhof-Dorfborn industrial area (Rhine-Main region) - in the heart of Germany. The proximity to the economic and financial metropolis of Frankfurt/Main and its international airport enables us to guarantee the best customer service through fast, reliable and worldwide delivery.

WE SUPPLY WORLDWIDE!



From Neuhof-Dorfborn across Germany and Europe to the whole world. We sell our products in over 100 countries worldwide. Wherever you are, we are at your side with knowledge, performance and passion. You can rely on that!



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01

FILTER & VALVES

In many cases, it often comes down to the right interplay, and in our case, this consists of MIDAS "Filter & Valve & Pump". By deploying this robust unit, you are making the choice for the reliable core of any pool. An optimally matched filtration system tailored to the pool size and hydraulics is crucial for smooth operation.

The interplay between our elegant MIDA.Apollo filter and the water-cooled Inver Master pump bestows your pool with a reliable core. This robust and optimally designed unit forms the basis for optimal pool hydraulics and ensures proper water circulation throughout the pool. The MIDA.Apollo filter can, of course, be equipped with filter glass as an environmentally friendly filter medium to achieve first-class results for crystal-clear water in your pool.

OVERVIEW

VALVES

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MANUAL 6-WAY VALVES

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FILTERMEDIA

- P. 40 Filter glass, quartz sand 



VALVES

1 1/2" AND 2" BESGO 5-WAY BAR VALVE

For filtering and backwashing

5-way automatic backwash valve for operation with water or air pressure (3-5 bar) made of PVC with internal parts made of V4A/AISI 316 stainless steel (1.4571) and ozone-resistant seals made of Viton/PTFE, almost maintenance-free.

- Switching can be done without switching off the filter pump.

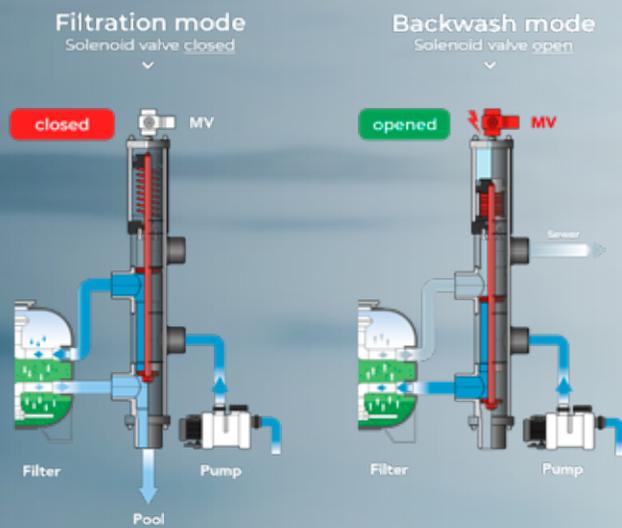
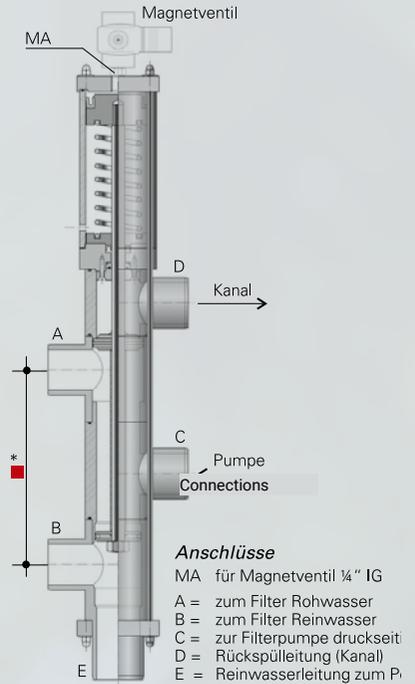
Included 3/2 solenoid valve 230 V 1/4" with manual emergency operation, • in 1 1/2" with 125 mm stitch or 2" with 230 mm stitch

Connections can be rotated by 90°, making them very flexible and optimal suitable for retrofitting

Notes:

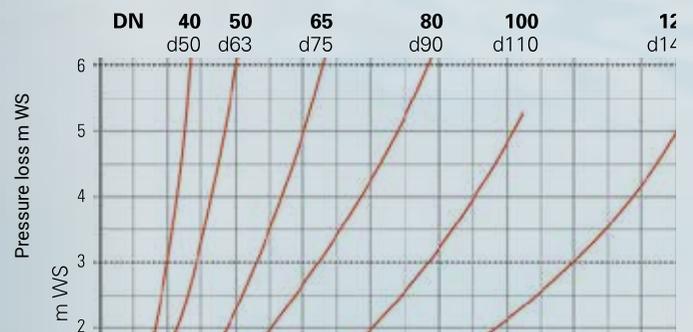
1) According to the Drinking Water Ordinance, the following is required for fresh water replenishment:
a pipe breaker of type A1 according to DIN 1988/type C according to DIN EN 1717 (available on request) or a free spout.

2) When operating with water pressure, the installation of a fine filter (see installation unit #083710, on catalog page 16) is mandatory to prevent contamination of the solenoid valve.



Filter Pool Pumpe Filter Pool

Druckverlustkurve Rückspülautomaten



Article	Distance	Code
1 1/2" DN 40/d 50	125 mm	BE50125
2" DN 50/d 63	230 mm	BE63230

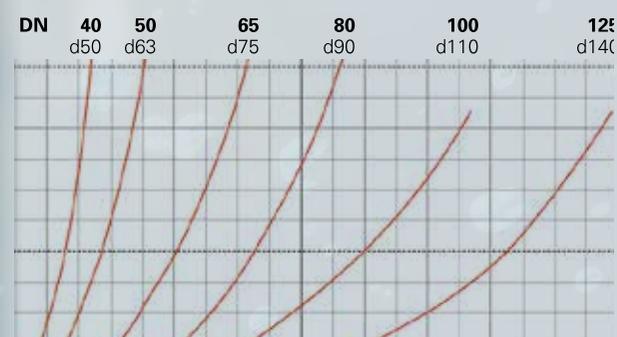
Other sizes/designs available on request

1 1/2" AND 2" BESGO 3-WAY BAR VALVE

3-way valve, **including** 3/2 solenoid valve, 230 V, 1/4", with manual override, for clear rinsing and for switching over two water attractions or the suction line (overflow channel/skimmer and floor drain). For the rest of the description, see catalog page 14



verlustkurve 3-Wege-Ventile



Article	Code
1 1/2" DN 40 /d 50	BE50-3
2" DN 50/d 63	BE63-3

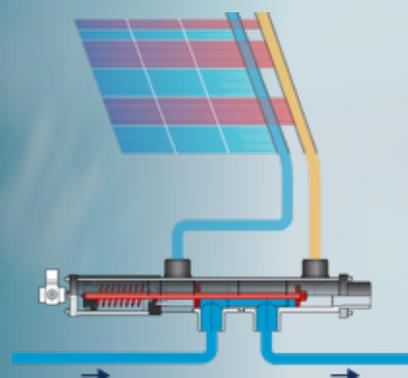
Other sizes/versions available on request

1 1/2" BESGO SOLAR 4-WAY BAR VALVE



4-way valve, **including** 3/2 solenoid valve, 230 V, 1/4", with manual override. For switching the bypass to the solar system.

- For noiseless switching to the solar system
- Low pressure loss compared to other valves
- Solar absorber system does not run empty when switching over, which enables more effective water heating for the rest of the description, see catalog page 14



Article	Code
1 1/2" DN 40/d 50	BE50-SO



INSTALLATION UNIT

For operation of the **Besgo** bar valve via operating pressure water

Consisting of: pressure gauge 0-10 bar, check valve, fine filter and tap

Article	Code
3/8" installation unit	083710



#083710



COMPRESSOR

For operation of the **Besgo** bar valve via operating pressure air

Energy-saving, oil-free and maintenance-free compressor, **including** 3 litre tank for even pressure, very quiet with only 47 dB and vibration damping due to 4 rubber feet, **including** mains switch and motor protection switch, pressure regulator, air filter and manometer, connection 1/8" ET (8 mm) 230 V, 125 W,

Weight: 5 kg, cable length: 1.7 m, dimensions: 33 x 30.5 x 13 cm

Article	Code
Compressor	BEKOMP3



#BEKOMP3



CONNECTION KIT FOR COMPRESSOR

083701 - for 1 Besgo bar valve, consisting of:

- 1x ball valve 1/4",
- 2x screw fittings,
- 10 m PE hose 6x4 mm
- 1x 1/8" IT with 6 mm push-in connection



#083701

083702 -for 2 Besgo bar valves, consisting of:

- 1x ball valve 1/4",
- 3x screw fittings, 1x T-fitting,
- 10 m PE hose 6x4 mm
- 1x 1/8" IT with 6 mm push-in connection



#083702

083703 - for 3 Besgo bar valves, consisting of:

- 1x ball valve 1/4",
- 3x screw fittings, 2x T-fittings,
- 10 m PE hose 6x4 mm
- 1x 1/8" IT with 6 mm push-in connection



#083703

Article	Quantity Besgo	Code
1/4" connection kit	1	083701
1/4" connection kit	2	083702
1/4" connection kit	3	083703



SPECK BADU OMNITRONIC BACKWASH AUTOMATION

NEW

The BADU Omnitronic is a time-saving alternative to conventional manual backwashing. This modern fitting not only revolutionizes water consumption but also enhances user convenience.

ENERGY SAVING

Time savings through automation

Instead of the traditional manual backwashing process, the Omnitronic handles this operation automatically, ensuring maximum time savings.

Digital intuitive display

The intuitive multilingual full-text display allows you to capture all settings at one glance and customize them according to your preferences.

Battery-powered operation during power outages

Thanks to a battery-operated option, there is no risk of losing the set backwash time or the current time in the event of a power outage.

Timer function

The integrated timer allows the circulation to be carried out after up to three predefined periods (time and VS stage). This function not only improves efficiency, but also ensures that the system is always in optimum condition.

Individual settings for backwash and rinse duration

Backwash and rinse times can be adjusted to suit your needs. The Omnitronic offers the flexibility to set these parameters individually to optimize water consumption and maximize the effectiveness of the rinse.

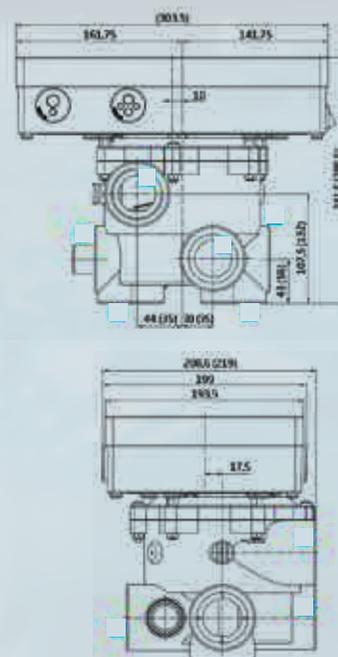
Frost protection

This function enables forced activation of the filter pump according to a set outside temperature. The desired speed of the VS pump can also be set.

Level control

Included Water level control and replenishment via float switches or conductive sensors. A small additional circuit board is required for this.

Voltage 230 V, protection class IPX4



Article	Code
BADU Omnitronic with BADU Mat R 41/3 A, 1,5"	BAO-1
BADU Omnitronic with BADU Mat R 51/3 A, 2"	BAO-2
Temperature sensor with 5m cable and PVC holder	BAO-1.4
Conductive sensor with 25 m cable	BAO-1.2
Additional circuit board for conductive sensor	BAO-1.3
Level switch BNR 300 and Omnitronic	M-065-1



FULL AUTOMATIC BACKWASH VALVE



MIDA.MAT

CLEVER AND PERFECT SOLUTION FOR EACH POOL(-PROFESSIONAL)

AUTOMATIC BACKWASH VALVE MIDA.MAT

Innovative and trendsetting MIDAS-Development – **including** more than 40 years 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. Regulation of several valves with one control possible. Suitable for all MIDAS 1½" and 2" classic line valves (color: white or black). Available in 85–264 VAC, 47–440 Hz. Splash-proofed housing (IP 65). Working pressure: 1½" valves: 1,5 bar, 2" valves: 2 bar

ADVANTAGES:

- ✓ 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
- ✓ shock-resistant,
- ✓ easy to install

Article	PU	Weight	Code
1½" side mount #310-3T*, color: white	1	4,3 kg	310-MA
1½" side mount #310-3TSB*, color: black	1	4,3 kg	310-MA-1
2" side mount #320-3T*, color: white	1	7,8 kg	320-MA



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	✓	–
Individual special made solutions possible	✓	✓

HALF AUTOMATIC BACKWASH VALVE

SIDE MOUNT 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



1½" SIDE MOUNT #310-AN



2" SIDE MOUNT #320-AN

Article	PU	Code	Weight
1½" side mount #310-3T, color: white	1	310-AN	4,3 kg
1½" side mount #310-3TSB, color: black	1	310-ANB	4,3 kg
2" side mount #320-3T, color: white	1	320-AN	5,8 kg
2" side mount #320-3TSB, color: black	1	320-ANB	5,8 kg

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 m3/h -14 m3/h

Article	PU	Code	Weight
Hydraulic safety valve	1	303	0,5 kg





FILTER CONTAINER

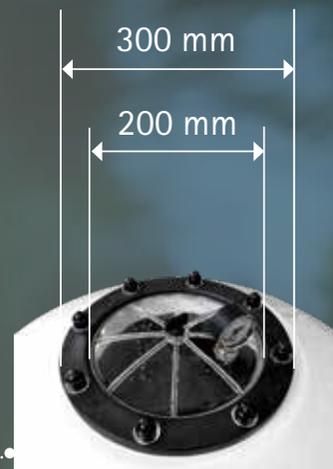


MIDA.CARBON PRO LAMINATED FILTER

EXKLUSIVE MIDAS



- Filter with 300 mm transparent cover and 200 mm opening at the top, and 200 mm service opening on the side
- 1000-1200 mm layer depth
- Made of glass-fibre reinforced plastic (GRP) in high quality
- With UV-resistant gel-coat coating
- **Including** 1 1/2" 6-way-valve (#310-C), or 1 1/2" BESGO bar valve (#BE50125) for 650 mm, unmounted¹
- **Including** 2" 6-way-valve (#320-C) or 2" BESGO bar valve (#BE63230) for 800 + 950 mm, unmounted¹
- **Including** pressure gauge up to 4 bar, 1/4" and 1/8" brass reducer
- **Including** bleed screw and large 1 1/4" drain valve
- Built-in parts made of PP, ABS and PVC
- All screws are made of stainless steel V2A/AISI 304 and the nuts are made of high-strength corrosion resistant and nickel-plated brass
- Distributor system: Filter star (0.3 mm filter finger opening)
- Distance between connections:
125 mm for #747,
230 mm for #748 and #749
- Color: RAL 9001 cream 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
- Inspection window optional



INCLUDED ✓
6-way-valve and piping¹
or BESGO bar valve

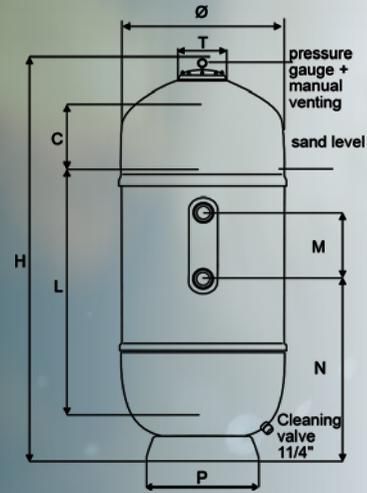


Filter	Code
MIDA.Carbon Pro 650 mm including 6-way-valve 1 1/2"	747
MIDA.Carbon Pro 800 mm including 6-way-valve 2"	748
MIDA.Carbon Pro 950 mm including 6-way-valve 2"	749
MIDA.Carbon Pro 650 mm including BESGO 1 1/2" DN 40/d 50	747-B
MIDA.Carbon Pro 800 mm including BESGO 2" DN 50/d 63	748-B
MIDA.Carbon Pro 950 mm including BESGO 2" DN 50/d 63	749-B

Diameter	max. pool volume	Connections	Filter area	Volume	Quantity glass*	Amount of sand*	Volume flow at 30 - 50 m/h	Weight	Code
650 mm	85 m ³	DN 40/d 50	0,33 m ²	1,09 m ³	380 kg	474 kg	10 - 17 m ³ /h	44 kg	747
800 mm	125 m ³	DN 50/d 63	0,50 m ²	1,18 m ³	540 kg	675 kg	15 - 25 m ³ /h	52 kg	748
950 mm	175 m ³	DN 50/d 63	0,71 m ²	2,29 m ³	740 kg	920 kg	21 - 35 m ³ /h	65 kg	749



MIDA Carbon Pro with BESGO bar valve



H (mm)	M (mm)	N (mm)	L (mm)	C (mm)	P (mm)	T (mm)	Dimensions (mm)	Code
1550	125	750	1000	300	400	267	800 x 800 x 1700	747
1700	230	840	1100	300	625	267	800 x 800 x 1850	748
1760	230	840	1200	300	700	267	1200 x 1000 x 1910	749



1 1/2" AND 2" 6-WAY-SIDE MOUNT-VALVE-KIT INCLUDING PIPING* - CLASSIC LINE

EXKLUSIVE MIDAS



- ABS
- Completely piped
- **Including** union nuts to the filter
- Operating pressure: 1.5 bar
- Flow rate: 16 m³/h at 0.2 bar (2")
- Flow rate: 9.7m³/h at 0.4 bar (1 1/2")
- Color: black
- also available individually

Suitable for:

- ✓ MIDA Carbon Pro
- ✓ MIDA Apollo
- ✓ MIDA Carbon Premium
- ✓ MIDA Carbon

Article	Distance	PU	Code
Valve 1 1/2": 50 mm to the filter, 3x 1 1/2" thread*	125 mm	6	310-C
Valve 2": 63 mm to the filter, 3x 2" thread*	230 mm	6	320-C

* not glued



FILTER PALLETS

Note: The selection of the filter pallet depends on the model of the circulating pump and arrangement on the pallet itself.

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



#FP-750
#FP-1000



FILTER EMPTYING

Article	Code
Drainage set with 1/2" stopcock	715-E1
Stopcock 1/2"	280329



#715-E1

#280329

EXKLUSIVE MIDAS



MIDA.APOLLO GFK FILTER CONTAINER

EXKLUSIVE MIDAS



- Large lid with 400mm diameter made of highly transparent methacrylate 25mm thick
- Supplied with VA4 gauge adapter in stainless steel V4A/AISI 316
- Supplied with pressure gauge in stainless steel V4A/AISI 316
- Screws and washers are made of stainless steel V4A/AISI 316
- **Including** 1 ½" 6-way valve (#310-C) **or** 1 ½" BESGO bar valve (#BE50125) for 560 mm, unmounted¹
- **Including** 2" 6-way valve (#320-C) **or** 2" BESGO bar valve (#BE63230) for 630 mm, 780 mm, 930 mm, unmounted¹
- Supplied with nickel-plated brass nuts to protect against deposits
- Extended height of the filter medium
- Residual water drain
- Water drain valve kit with Gardena hose connection
- Slots in the filter arm of 0.25 mm
- Ozone resistant internal coating
- Upper internal kit fitting for easy maintenance
- Test pressure 3.75 bar
- Max. operating pressure 2.5 bar
- DIN EN 16713 compliant
- Distance between connections:
125 mm at 560 mm
230 mm at 630 + 780 + 930 mm
- Color: RAL 9003 signal white



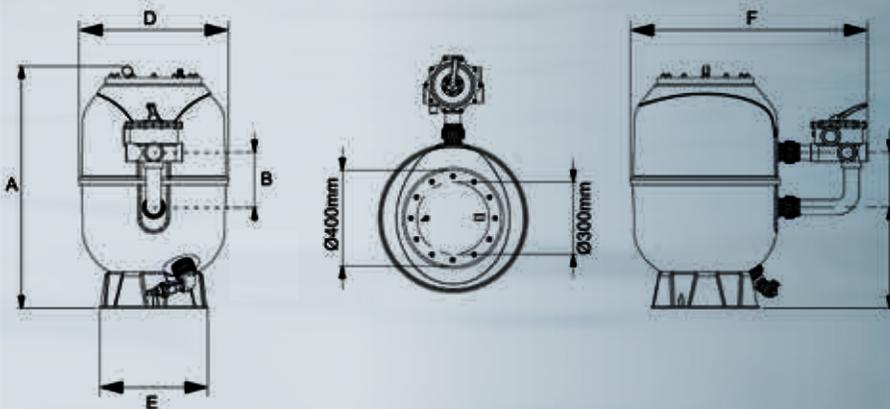
Large lid
Ø 400 mm transparent



INCLUDING ✓
6-way-valve and piping¹
or BESGO valve



Water drain valve kit with stopcock & with Gardena hose connection



A	B	C	D	E	F
942 mm	125 mm	440 mm	560 mm	450 mm	825 mm
1000 mm	230 mm	420 mm	630 mm	450 mm	950 mm
1050 mm	230 mm	430 mm	780 mm	650 mm	1100 mm
1100 mm	230 mm	450 mm	930 mm	650 mm	1250 mm

Diameter	max. pool volume	Filter area	Quantity of glass (0.5-1 mm) Grade 1*	Amount of sand (0.4-0.8 mm)*	Volumetric flow at 30 - 50 m/h	Weight
560 mm	50 m ³	0,22 m ²	100 kg	125 kg	6,6 - 11 m ³ /h	22 kg
630 mm	80 m ³	0,28 m ²	150 kg	185 kg	8,4 - 16 m ³ /h	25 kg
780 mm	110 m ³	0,44 m ²	240 kg	300 kg	13 - 22 m ³ /h	37 kg
930 mm	160 m ³	0,64 m ²	400 kg	500 kg	19,2 - 32 m ³ /h	43 kg



MIDA.Apollo with BESGO bar valve

From version
630 mm boiler
already with
2" piping

Filter	Code
MIDA.Apollo 560 mm including 6-way-valve 1 1/2"	756
MIDA.Apollo 630 mm including 6-way-valve 2"	757
MIDA.Apollo 780 mm including 6-way-valve 2"	758
MIDA.Apollo 930 mm including 6-way-valve 2"	759
MIDA.Apollo 560 mm including BESGO 1 1/2" DN 40/d 50	756-B
MIDA.Apollo 630 mm including BESGO 2" DN 50/d 63	757-B
MIDA.Apollo 780 mm including BESGO 2" DN 50/d 63	758-B
MIDA.Apollo 930 mm including BESGO 2" DN 50/d 63	759-B



1 1/2" AND 2" 6-WAY-SIDE MOUNT-VALVE-KIT INCLUDING PIPING* - CLASSIC LINE

EXKLUSIVE MIDAS



- ABS
- Completely piped
- **including** union nuts to the filter
- Operating pressure: 1.5 bar
- Flow rate: 16 m³/h at 0.2 bar (2")
- Flow rate: 9.7 m³/h at 0.4 bar (1 1/2")
- color: black
- Also available separately

Suitable for:

- ✓ MIDA.Carbon Pro
- ✓ MIDA.Apollo
- ✓ MIDA.Carbon Premium
- ✓ MIDA.Carbon

Article	Distance	PU	Code
Valve 1 1/2": 50 mm to the filter, 3x 1 1/2" thread*	125 mm	6	310-C
Valve 2": 63 mm to the filter, 3x 2" thread*	230 mm	6	320-C

* not glued



FILTER PALLETS

Note: The selection of the filter pallet depends on the model of the circulating pump and arrangement on the pallet itself.

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



#FP-750
#FP-1000



MIDA.CARBON PREMIUM LAMINATED FILTER

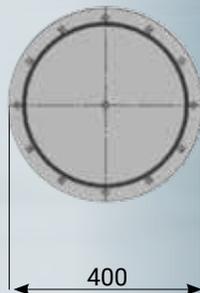
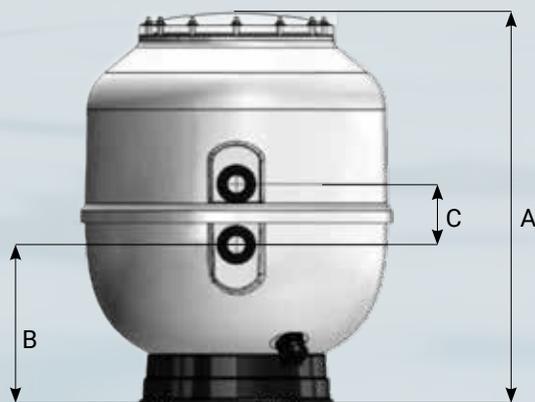
EXKLUSIVE MIDAS



- Filter container with 400 mm transparent lid and 300 mm opening at the top for quick change of the filter medium
- Made of high-quality glass fiber reinforced plastic (GRP)
- With UV-resistant gel-coat coating
- **Including** 1½" 6-way valve (#310-3TSB, side-mount, color: black), unmounted¹
- Incl. pressure gauge up to 4 bar, ¼" and 1/8" reduction made from nickel-plated brass
- **Including** bleed screw and large 1¼" drain valve
- Quartz sand grain size: 0.4-0.8 mm;
Grain size of filter glass: 0.5-1.0 mm (filter medium not included in the scope of delivery)
- 5-year guarantee on the filter container
- Built-in parts made of PP, ABS and PVC
- All screws used are made of stainless steel V2A and the nuts are made of high-strength corrosion-resistant and nickel-plated brass
- Distribution system: Filter star (0.3 mm filter opening)
- Distance between the connections: 125 mm
- Color: RAL 9001 cream white
- Filter base made of reinforced plastic
- Filter pallet: optional
- Test pressure 3.75 bar
- Max. operating temperature +42°C



INCLUDING ✓
6-way-valve and piping¹
or BESGO bar valve



A	B	C	Code
687 mm	285 mm	125 mm	715
777 mm	325 mm	125 mm	716

Filter	Code
MIDA.Carbon Premium 500 mm including 6-way-valve 1 ½"	715
MIDA.Carbon Premium 600 mm including 6-way-valve 1 ½"	716

Diameter	max. pool volume	Filter area	Quantity of glass (0.5-1 mm) Grade 1*	Quantity of sand (0.4-0.8 mm)*	Volumetric flow at 30 - 50 m/h	Weight	Code
500 mm	65 m ³	0,20 m ²	80 kg	100 kg	6 - 10 m ³ /h	20 kg	715
600 mm	85 m ³	0,28 m ²	140 kg	175 kg	8 - 14 m ³ /h	24 kg	716



MIDA.Carbon Premium with BESGO bar valve

Filter	Code
MIDA.Carbon Premium 500 mm including BESGO valve	715-B
MIDA.Carbon Premium 600 mm including BESGO valve	716-B



1 1/2" AND 2" 6-WAY-SIDE MOUNT-VALVE-KIT INCLUDING PIPING* - CLASSIC LINE

EXKLUSIVE MIDAS



- ABS
- Completely piped
- **including** union nuts to the filter
- Operating pressure: 1.5 bar
- Flow rate: 16 m³/h at 0.2 bar (2")
- Flow rate: 9.7 m³/h at 0.4 bar (1 1/2")
- color: black
- Also available separately

Suitable for:

- ✓ MIDA.Carbon Pro
- ✓ MIDA.Apollo
- ✓ MIDA.Carbon Premium
- ✓ MIDA.Carbon

Article	Distance	PU	Code
Valve 1 1/2" d/50 mm to the filter, 3x 1 1/2" thread*	125 mm	6	310-C
Valve 2": d/63 mm to the filter, 3x 2" thread*	230 mm	6	320-C

* not glued

* delivery is in individual parts (not glued, adhesive and cleaner are not included in the delivery)

*not included in the scope of delivery



FILTER PALLETS

Note: The selection of the filter pallet depends on the model of the circulating pump and arrangement on the pallet itself.

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


 #FP-750
#FP-1000


FILTER EMPTYING

Article	Code
Drain kit with 1/2" stopcock	715-E1
Stopcock 1/2"	280329



#715-E1

#280329

EXKLUSIVE MIDAS



MIDA.CARBON LAMINATED FILTER

EXKLUSIVE MIDAS

- Filter with 300 mm transparent cover and 200 mm filling opening at the top
- Made of high quality glass fibre reinforced plastic (GRP)
- **Including** 1 ½" 6-way valve (#310-C), or 1 ½" BESGO bar valve (#BE50125) for 500 and 600 mm, unmounted¹
- **Including** 2" 6-way valve (#320-C) or 2" BESGO bar valve (#BE63230) for 750 and 900 mm, unmounted¹
- **Including** pressure gauge up to 4 bar, ¼" and 1/8" reduction made of nickel-plated brass
- **Including** bleed screw and large 1¼" drain valve
- **Including** movable inlet head for easy filling (via filling (detachable via screw connection inside)
- Built-in parts made of PP, ABS and PVC
- All screws are made of stainless steel V2A/AISI 304 and the nuts are made of high-strength, corrosion-corrosion-resistant and nickel-plated brass
- Distribution system: Filter star (0.3 mm filter finger opening)
- DN40/d50 mm /DN 50/d63 mm Connections
- Distance between connections:
125 mm at 500 + 600 mm
230 mm for 750 + 900 mm
- Color: RAL 9001 cream white
- Filter foot 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 piping¹
or BESGO bar valve

Filter	Code
MIDA.Carbon 500 mm including 6-way-valve 1 ½"	718
MIDA.Carbon 600 mm including 6-way-valve 1 ½"	719
MIDA.Carbon 750 mm including 6-way-valve 2"	720
MIDA.Carbon 900 mm including 6-way-valve 2"	721
MIDA.Carbon 500 mm including BESGO 1 ½" DN 40/d 63	718-B
MIDA.Carbon 600 mm including BESGO 1 ½" DN 40/d 63	719-B
MIDA.Carbon 750 mm including BESGO 2" DN 50/d 63	720-B
MIDA.Carbon 900 mm including BESGO 2" DN 50/d 63	721-B

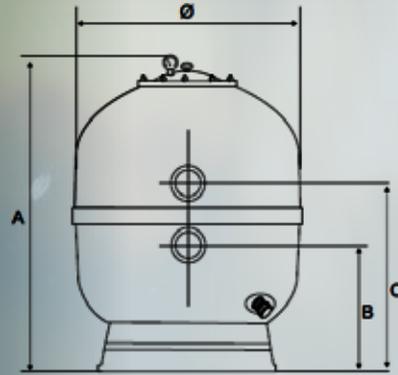
Diameter	max. pool volume	Filter area	Quantity of glass (0.5-1 mm) Grade 1*	Quantity of sand (0.4-0.8 mm)*	Volumetric flow at 30 - 50 m/h	Weight	Code
500 mm	50 m³	0,20 m²	80 kg	100 kg	6 – 10 m³/h	18 kg	718
600 mm	70 m³	0,28 m²	140 kg	175 kg	8 – 14 m³/h	22 kg	719
750 mm	110 m³	0,44 m²	240 kg	300 kg	13 – 22 m³/h	30 kg	720
900 mm	160 m³	0,64 m²	400 kg	500 kg	19 – 32 m³/h	48 kg	721

¹ Delivery is in individual parts (not glued, adhesive and cleaner are not included in the delivery)

* Not included in the scope of delivery



MIDA.Carbon with BESGO bar valve



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



1 1/2" AND 2" 6-WAY-SIDE MOUNT-VALVE-KIT INCLUDING PIPING* - CLASSIC LINE

EXKLUSIVE MIDAS



- ABS
- Completely piped
- **Including** union nuts to the filter
- Operating pressure: 1.5 bar
- Flow rate: 16 m³/h at 0.2 bar (2")
- Flow rate: 9.7 m³/h at 0.4 bar (1 1/2")
- color: black
- Also available separately

Suitable for:

- ✓ MIDA.Carbon Pro
- ✓ MIDA.Apollo
- ✓ MIDA.Carbon Premium
- ✓ MIDA.Carbon

Article	Distance	PU	Code
Valve 1 1/2" d/50 mm to the filter, 3x 1 1/2" thread*	125 mm	6	310-C
Valve 2": d/63 mm to the filter, 3x 2" thread*	230 mm	6	320-C

* not glued

¹ Delivery is in individual parts (not glued, adhesive and cleaner are not included in the delivery)

*Not included in the scope of delivery



FILTER PALLETS

Note: The selection of the filter pallet depends on the model of the circulating pump and arrangement on the pallet itself.

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



#FP-750
#FP-1000



FILTER EMPTYING

Article	Code
Drain kit with 1/2" stopcock	715-E1
Stopcock 1/2"	280329



#715-E1

#280329



MIDA.SPLIT PP FILTER

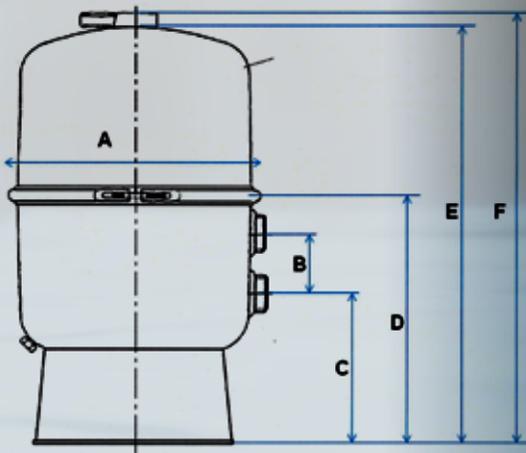
EXKLUSIVE MIDAS



- High quality filter made of glass fibre reinforced polypropylene
- Split design
- UV protection against fading
- **Including** black stainless steel clamping ring for service-friendly opening
- **Including** MIDAS 1 1/2" 6-way-valve (#310-3TSB), unmounted¹
- **Including** 3/8" vent complete
- **Including** drain valve (for 500 + 600 mm) + 400 all 1/2"
- All screws used are made of stainless steel V2A/AISI 304
- Distribution system: Filter star
- DN40/d50 mm connections
- Distance between connections: 102 mm
- Color RAL 5024 pastel blue
- Filter pallet: optional
- Operating pressure: nominal: 1.3 bar, max: 1.8 bar



INCLUDING ✓
6-way-valve and piping¹



A min.	A max.	B	C	D	E	F	Code
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

Diameter	Total height	Max. pool Volume	Filter area	Quantity of glass (0.5-1 mm) Grade 1*	Quantity of sand (0.4-0.8 mm)*	Volumetric current at 30 - 50 m/h	Weight	Code
400 mm	725 mm	30 m ³	0,126 m ²	40 kg	50 kg	4 - 6 m ³ /h	8,7 kg	751
500 mm	830 mm	50 m ³	0,196 m ²	70 kg	90 kg	6 - 10 m ³ /h	14,0 kg	753
600 mm	1080 mm	60 m ³	0,283 m ²	96 kg	120 kg	8 - 14 m ³ /h	21,2 kg	755

FILTER PALLETS

Note: The selection of the filter pallet depends on the model of the circulating pump and arrangement on the pallet itself.

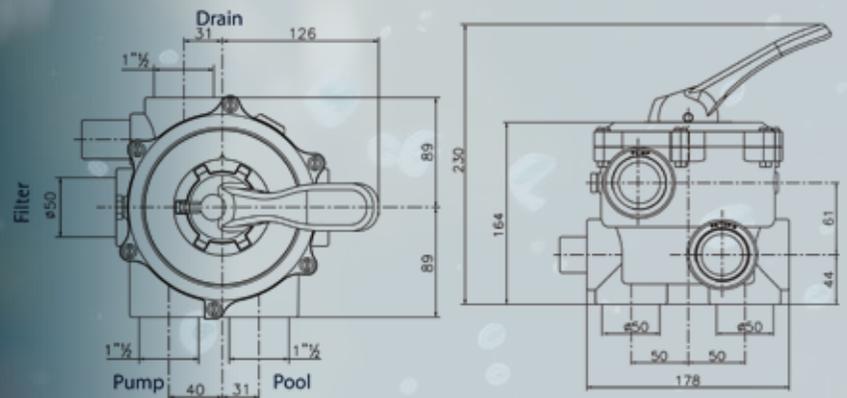
Article	Code
Filter pallet 750 x 500 x 35 mm	FP-750
Filter pallet 1000 x 550 x 55 mm	FP-1000



#FP-750
#FP-1000

1 1/2" 6-WAY-VALVE SIDE MOUNT - CLASSIC LINE

- 1 1/2" SIDE MOUNT Valve Classic Generation,
- ABS (Cyclocac)
 - With adhesive connection to the filter for MIDA.Split (310-3TSB) or threaded connections (threaded connections to the filter)
 - Operating pressure: 1,5 bar
 - Flow rate: 9,7 m3/h bei 0,4 bar
 - Color: white **or** black
 - Also available individually



EXKLUSIVE
MIDAS



#310-3TSB



#310-3T



#310-0T

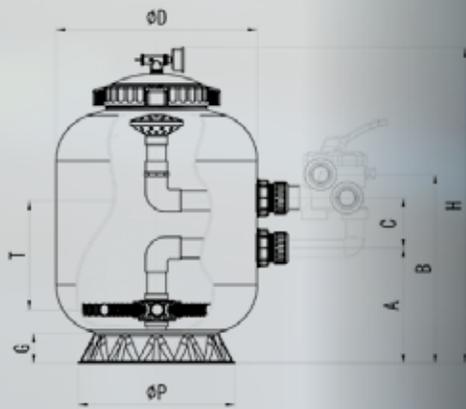
Article	PU	Code
1 1/2" threaded connection, color white	6	310-3T
2 x adhesive connections & 3 x threaded connections, color: black	6	310-3TSB
1 1/2" threaded connection, color: white, includes 2 plugs	6	310-0T



BOBBIN WOUND SIDE MOUNT FILTER
INCLUDED 6-WAY VALVE, PIPING, MANHOLE AND FILTER ARM

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



Model	kg	D (mm)	H (mm)	A (mm)	C (mm)	B (mm)	T (mm)	G (mm)	P (mm)
KS750	37 kg	750	980	385	220	680	400	120	565
KS900	51 kg	900	1110	430	220	725	480	150	790
KS1000	66 kg	1000	1140	460	220	755	510	150	790
KS1100	72 kg	1100	1260	540	220	835	560	180	1010
KS1200	81 kg	1200	1340	540	220	835	600	180	1010

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 m3/h/m2	Valve	Opening size	Weight	Code
KS750	750 mm	DN 50/D 63	0,44 m²	204 kg	255 kg	2,5 bar	13 - 22 m³/h	2"	Ø242 mm	37 kg	KS750
KS900	900 mm	DN 50/D 63	0,64 m²	392 kg	490 kg	2,5 bar	19 - 32 m³/h	2"	Ø242 mm	51 kg	KS900
KS1000	1000 mm	DN 50/D 63	0,79 m²	480 kg	600 kg	2,5 bar	24 - 39 m³/h	2"	404 x 304 mm	66 kg	KS1000
KS1100	1100 mm	DN 50/D 63	0,95 m²	640 kg	800 kg	2,5 bar	28 - 47 m³/h	2"	404 x 304 mm	72 kg	KS1100
KS1200	1200 mm	DN 50/D 63	1,13 m²	760 kg	950 kg	2,5 bar	34 - 57 m³/h	2"	404 x 304 mm	81 kg	KS1200

LATERAL AND FILTER FINGER

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 an effective air/water backwash leading to reduced backwashing times and reduced volumes of water. **Including** manhole and sight glass.

Filter fingers

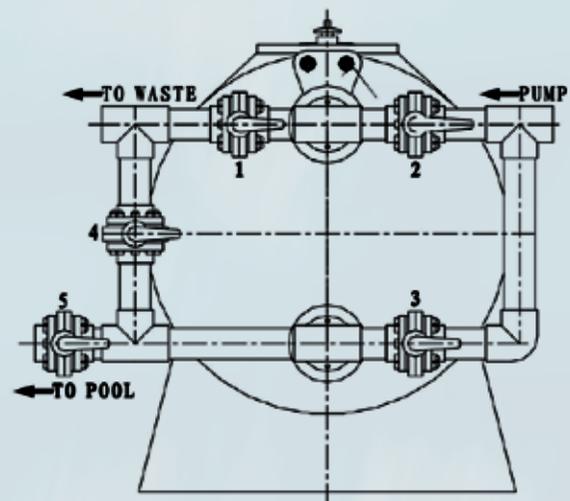


FIBERGLASS COMMERCIAL SAND FILTER

- 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

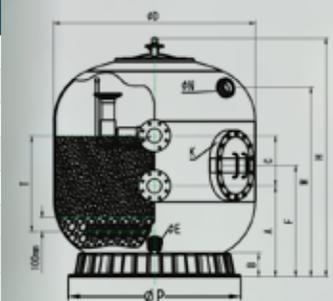




FIBERGLASS COMMERCIAL SAND FILTER WITH FILTER FINGER

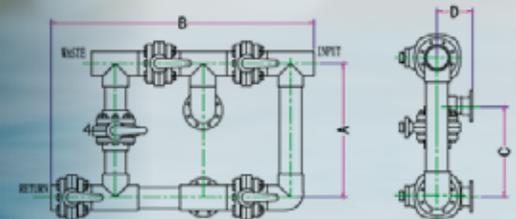
Diameter	Connections in – out	Filter area	Quantity Glass 0,5–1 mm (grade 1)	Quantity Sand 0,7–1,2 mm (grade 1)	Max. Pressure	Flow rate at 30 – 50 m ³ /h/m ²	Code
1200 mm	90 mm	1.13 m ²	750 kg	300 kg	2,5 bar	34 – 57 m ³ /h	K120
1400 mm	110 mm	1.54 m ²	1200 kg	500 kg	2,5 bar	46 – 77 m ³ /h	K140
1600 mm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

Model	ØD (mm)	H (mm)	A (mm)	C (mm)	F (mm)	M (mm)	T (mm)	K (mm)	ØN (mm)	ØE (mm)	ØP (mm)	ØB (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	2800	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



PIPPING 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	open	open
Backwash	open	close	open	close	close
Rinse	close	open	close	open	close

OPTIONAL EQUIPMENT (SET) FOR K-SERIES FILTER

Model	Available for Filter	Code	Weight
Manhole and Sightglass	K120	K12-E1	0,2 kg
Manhole and Sightglass	from K140/N140 – K300/N250	K14-E1	0,2 kg



Manhole



Sightglass

MIDA.MAUI PE SAND FILTER SYSTEM

- High-quality filter unit with MIDAS 6-way-Valve #308-S¹
- Hose including 2 stainless steel hose clamps V4A/AISI 316
- Pressure gauge 1/4"
- Connection with hose d 38 mm
- With clamping ring
- Max. operating pressure: 150 kpa/21.75 psi/1.5 bar
- Factory test pressure: 300 kpa/43.5 psi/3.0 bar
- Quartz sand grain size: 0.4-0.8 mm;
grain size of filter glass: 0.5-1.0 mm
(filter media not included in the scope of delivery)
- Distribution system: filter star
- Delivery: filter unassembled

Color: RAL 5015 sky blue



INCLUDING ✓
6-way-valve +
hose¹ + filter pallet

example picture

FILTER Ø 300 MM

with pump	power output	Filter performance	Total height	max. pool volume	Filter area	Quantity Glass size 1	Quantity Sand	Band-strom bei 30 - 50 m/h	Code
MIDA.Pombi 4	0,25 kW	4 m ³ /h	600 mm	20 m ³	0,071 m ²	16 kg	20 kg	2 – 4 m ³ /h	MD-300
MIDA.Wave 4	0,18 kW	4 m ³ /h *	600 mm	20 m ³	0,071 m ²	16 kg	20 kg	2 – 4 m ³ /h	MM-300
MIDA.Alpha 6	0,18 kW	6 m ³ /h*	600 mm	20 m ³	0,071 m ²	16 kg	20 kg	2 – 4 m ³ /h	MA-300

FILTER Ø 400 MM

with pump	power output	Filter performance	Total height	max. pool volume	Filter area	Quantity Glass size 1	Quantity Sand	Band-strom bei 30 - 50 m/h	Code
MIDA.Wave 6	0,30 kW	6 m ³ /h*	745 mm	30 m ³	0,126 m ²	40 kg	50 kg	4 – 6 m ³ /h	MM-400
MIDA.Pombi 6	0,37 kW	6 m ³ /h	745 mm	30 m ³	0,126 m ²	40 kg	50 kg	4 – 6 m ³ /h	MD-400
MIDA.Alpha 6	0,18 kW	6 m ³ /h*	745 mm	30 m ³	0,126 m ²	40 kg	50 kg	4 – 6 m ³ /h	MA-400

FILTER Ø 500 MM

with pump	power output	Filter performance	Total height	max. pool volume	Filter area	Quantity Glass size 1	Quantity Sand	Band-strom bei 30 - 50 m/h	Code
MIDA.Pombi 8	0,55 kW	8 m ³ /h	840 mm	45 m ³	0,196 m ²	60 kg	75 kg	6 – 10 m ³ /h	MD-500
MIDA.Wave 8	0,40 kW	8 m ³ /h *	840 mm	45 m ³	0,196 m ²	60 kg	75 kg	6 – 10 m ³ /h	MM-500
MIDA.Pombi 10	0,75 kW	10 m ³ /h	840 mm	45 m ³	0,196 m ²	60 kg	75 kg	6 – 10 m ³ /h	MD-501
MIDA.Alpha 8	0,25 kW	8 m ³ /h *	840 mm	45 m ³	0,196 m ²	60 kg	75 kg	6 – 10 m ³ /h	MA-500
MIDA.Alpha 10	0,37 kW	10 m ³ /h *	840 mm	45 m ³	0,196 m ²	60 kg	75 kg	6 – 10 m ³ /h	MA-501
MIDA.Wave 11	0,50 kW	11 m ³ /h *	840 mm	45 m ³	0,196 m ²	60 kg	75 kg	6 – 10 m ³ /h	MM-501

Other versions available as an alternative on request.

OPTIONAL ACCESSORIES

Filter container blue, single (including filter star/without valve, without piping, without filter pallet)	Code
Ø 300 mm	MF-300
Ø 400 mm	MF-400
Ø 500 mm	MF-500
Other spare parts	Code
Drain tap for MIDA.Maui filter system	MM-300-E4
Pressure gauge connection 1/4" for filters and 310-series valves	MM-E1
Filter pallets, Color: black	Code
for filter Ø 300 mm (324 x 544 mm)	MM-300-E31
for filter Ø 400 mm Ø 500 mm (500 x 733 mm)	MP-400



#MM-E1

¹ Supplied in individual parts

* Pump capacity at 8 m/Ws



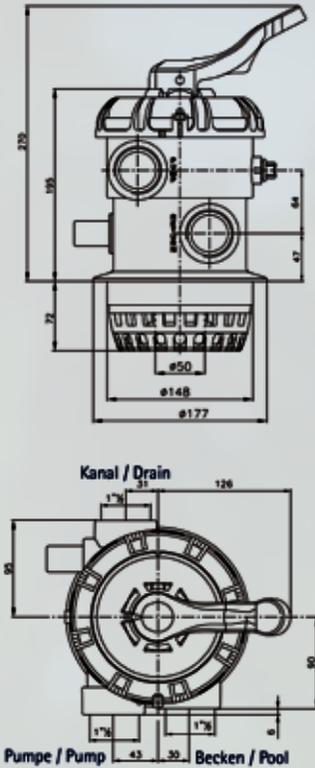
VALVES



1 1/2" 6-WAY-VALVE TOP MOUNT - MODERN LINE, THREAD CONNECTION

1 1/2" TOP MOUNT High-Tech Generation-Valve
Suitable for MIDA.Maui sand filter system.

- 1 1/2" Thread connection
- With bayonet catch for easy opening
- Clamping ring kit **including** screws, nuts & O-ring
- Clamping ring Ø 177 mm
- Operating pressure: 1.5 bar
- Flow rate: 8.2 m3/h at 0.4 bar
- Color: black
- Also available individually



EXKLUSIVE MIDAS

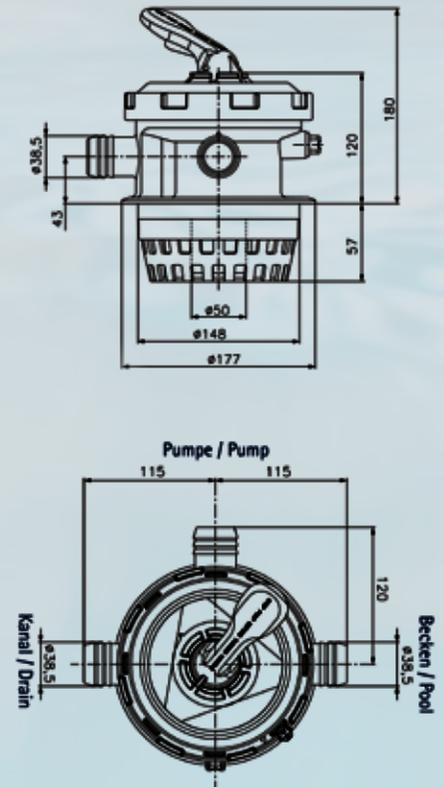
Article	PU	Code
1 1/2" 6-way-Valve, Top Mount	6	317-S



1 1/2" 6-WAY-VALVE TOP MOUNT - MODERN LINE, HOSE CONNECTION

1 1/2" „Mini“ TOP MOUNT High-Tech Generation-Valve.
Perfect for above-ground pools.
Suitable for MIDA.Maui sand filter system standard.

- 38 mm hose connection
- Clamping ring kit, **including** screws, nuts & O-ring
- Clamping ring Ø 177 mm
- Operating pressure: 1.5 bar
- Flow rate: 8.2 m3/h at 0.4 bar
- Color: black
- Also available individually



EXKLUSIVE MIDAS

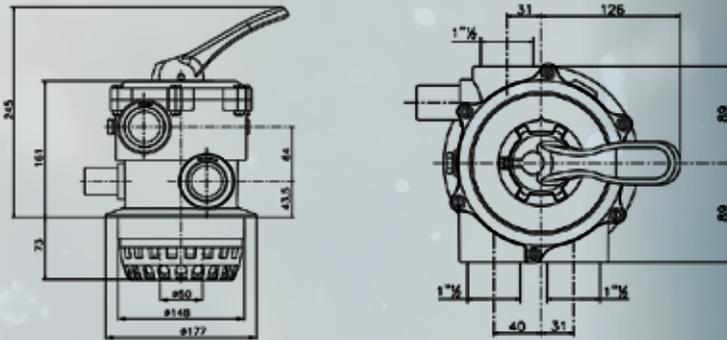
Article	PU	Code
1 1/2" 6-way-Valve, Top Mount	6	308-S

1½" 6-WAY-VALVE
TOP MOUNT - CLASSIC LINE

EXCLUSIVE
MIDAS

1 ½" TOP-MOUNT valve, ABS material (cyclocac), 1½" threaded connection. Clamp set of reinforced **included** 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



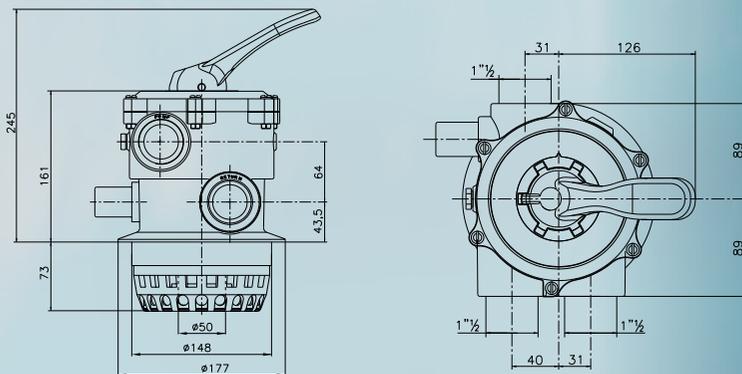
Article	PU	Code	Weight
1½" 6-Way-Valve, Top Mount	6	313-S	2,5 kg

1½" 6-WAY-VALVE
TOP MOUNT

EXCLUSIVE
MIDAS

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	Code	Weight
6" unified	312-TU	2,17 kg
6" buttress	312-TB	2,17 kg



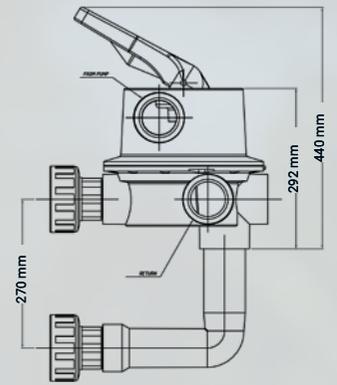
2 1/2" 6-WAY-VALVE-KIT SIDE MOUNT - MODERN LINE

EXKLUSIVE MIDAS

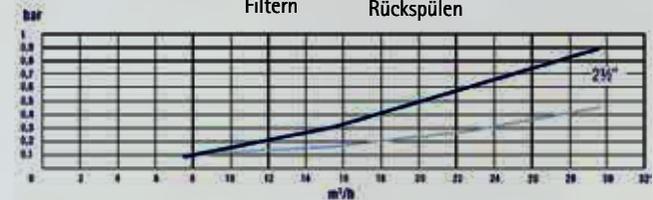
- Glass fiber reinforced ABS
- 2 1/2" thread connections
- Piping (not glued)
- **Including** union nuts & O-rings
- 27 cm distance between the connections
- Operating pressure: 2.5 bar
- Flow rate: 27 m³/h at 0.4 bar
- Color: black



#SM-25



Filtern Rückspülen



Article	Code
2 1/2" 6-way-Valve	SM-25

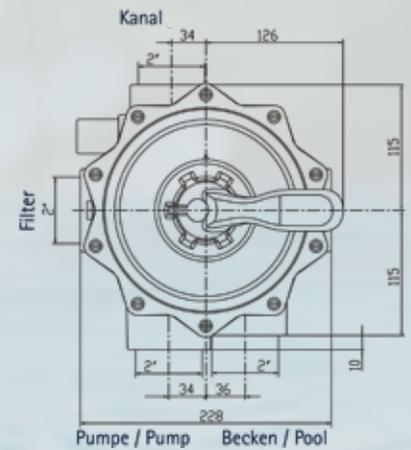
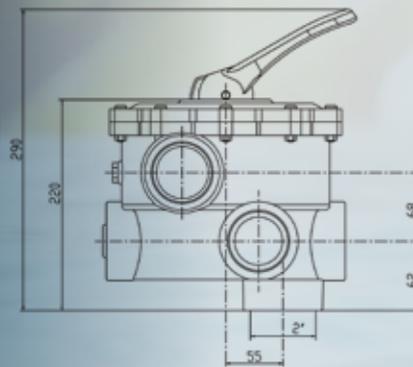


2" 6-WAY-VALVE SIDE MOUNT - CLASSIC LINE

EXKLUSIVE MIDAS

2 " SIDE MOUNT-Valve Classic Generation

- ABS (Cyclocac)
- With adhesive or thread connections (2 x adhesive connections to the filter with article 320-3TSB).
- Operating pressure: 2 bar
- Flow rate: 16 m³/h at 0.2 bar
- Color: white or black
- Also available individually



#320-3T



#320-0T



#320-3TSB

Article	PU	Code
2" threaded connection, color white	6	320-3T
Threaded connection 2", all open version with 2 threaded plugs, color: white	6	320-0T
2 x adhesive & 3 x thread, color: black	6	320-3TSB

2" 6-WAY-VALVE

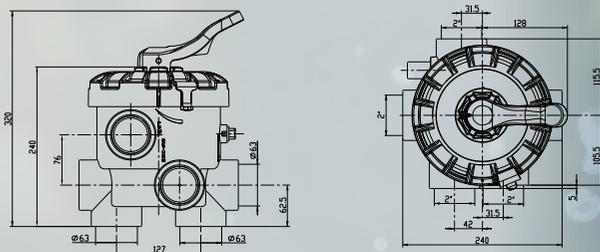
SIDE MOUNT - MODERN LINE

 EXCLUSIVE
MIDAS

2" SIDE-MOUNT High-Tech Generation, ABS material (cyclocac).
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.

Included key for opening.

- Working pressure: 2 bar
- Flow rate: 16 m³/h at 0,2 bar
- Color: white or black



Article	PU	Code	Weight
2" threaded, color: white	6	325-W	3,5 kg
2" threaded, color: black	6	325-3T	3,5 kg
2 x slip & 3 x threaded, color: white	6	325-WST	3,5 kg
2 x slip & 3 x threaded, color: black	6	325-3ST	3,5 kg

TOP MOUNT

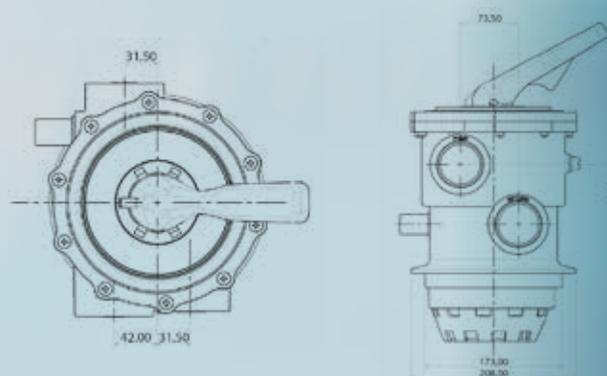
2" 6-WAY-VALVE

TOP MOUNT - MODERN LINE

 EXCLUSIVE
MIDAS

2" TOP-MOUNT-Valve, ABS (cyclocac).
Clamp set **included** bolts, nuts & o-ring.

- Clamp Ø 208 mm
- Working pressure: 2 bar
- Flow rate: 13 m³/h at 0,2 bar
- Color: black



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



3" 6-WAY-VALVE

SIDE MOUNT - MODERN LINE

EXKLUSIVE MIDAS

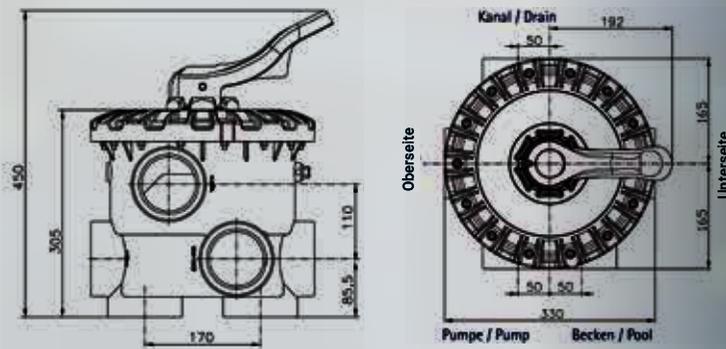
ALL-OPEN version with 2 thread plugs for flexible installation. 3" ThreadConnections.

Designed for swimming pool use only.

- Glass fiber reinforced ABS
- Closure system with stainless steel screws
- EPDM O-rings
- Operating pressure: 3.5 bar
- Flow rate: 40 m³/h at 0.2 bar
- Color: black



#331-0T



PERFORMANCE DIAGRAM 3" 6-way-valves



Article	Code
3" 6-way-Valve	331-0T

4" 6-WAY-VALVE SIDE MOUNT - MODERN LINE

 EXCLUSIVE
MIDAS

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

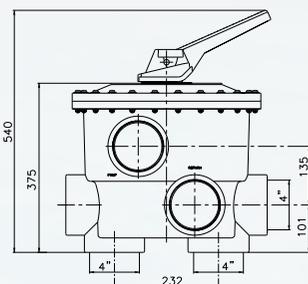
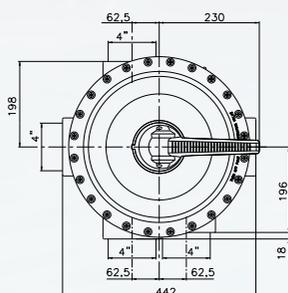
The 4" valve has a decisive advantage over the conventional gate valve system:

- ✓ 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



#380-OT

Article	PU	Code	Weight
4"-threaded	1	380-OT	18,00 kg



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	PU	Code	Weight
4"/110 mm "Metric"	5	380-E20	0,70 kg





FILTER MEDIA



FILTER GLASS



EXKLUSIVE MIDAS

Filter glass is an **environmentally friendly and cost-efficient alternative** to filter sand. It is made entirely from recycled glass, eliminating the need to mine and use scarce resources. Compared to sand, 20 % less material is required to fill a filter, as glass is less dense. Glass as a filter medium removes up to 30 % more pollutants than sand.

- 100 % recycled glass for crystal clear water
- Square, dried
- For efficient use
- Sustainable and environmentally friendly
- More efficient backwashing processes due to easier loosening of the dirt
- Less maintenance compared to sand
- Pallet contains 50 bags of 20 kg



Grade 1



Grade 2



#791

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

Grade 3 filter glass (3.0 - 6.0 mm grain size) available on request.



QUARTZ SAND



- Standard filter medium
- According to DIN 4924 (well construction)/ EN12904 (drinking water treatment)
- Washed, sieved and dried several times
- No sharp edges
- Grain density 2.7 g/cm³
- Bulk density 1.4 g/cm³
- Free from organic impurities
- Pallet contains 40 25 kg bags

Filter material	Grain size (mm)	Code
Quartz sand	0,4 - 0,8	780
Quartz sand	0,7 - 1,2	785
Quartz sand	2,0 - 3,2	781

Quartz sand with a grain size of 3.2 - 5.6 mm available on request.





02



PUMPS & COUNTER-CURRENT SWIMMING SYSTEMS



Welcome to the world of technological innovation and modern design!

The groundbreaking water-cooled Inver Master is up to 40 times quieter than conventional pumps and is a real blessing for anyone who wants to enjoy peace and relaxation by the pool. With its impressive performance and unique design, it sets new standards in pool technology.

The Speck BADU Delta Eco VS continues to be a true masterpiece that redefines the limits of what is possible. Choosing a frequency-controlled pump is the key to an efficient and energy-saving pool system.

With the pump unit of the powerful Badu Jet Turbo Light counter-current swimming system from Speck, you can transform your pool into a raging water paradise. Experience the intoxicating power of water and be inspired by the incomparable performance!

OVERVIEW



PUMPS & ACCESSORIES

	P. 44	Important parameters & calculations
	P. 46	Inver Silence - Introduction
NEW	P. 48	Aquagem Inver Master 
NEW	P. 52	Aquagem Inver Warrior 
	P. 56	Speck Badu Delta Eco VS 
	P. 57	Speck Badu Delta-MK Eco VS 
	P. 58	Speck Badu Prime Eco VS 
	P. 59	Kripsol KS Evo VS 
	P. 60	Speck Badu Alpha Eco Soft 
NEW	P. 61	Aquagem Inver Smart 
NEW	P. 62	Speck Badu NetLink 
NEW	P. 64	Frequency inverter iSaver 
	P. 66	Speck Badu Delta
	P. 68	Speck Badu Prime
	P. 70	Speck Badu Magna
	P. 71	Speck Badu Top II
	P. 72	MIDA.Gamma
	P. 72	MIDA.Alpha
	P. 73	MIDA.Wave
	P. 73	MIDA.Pombi

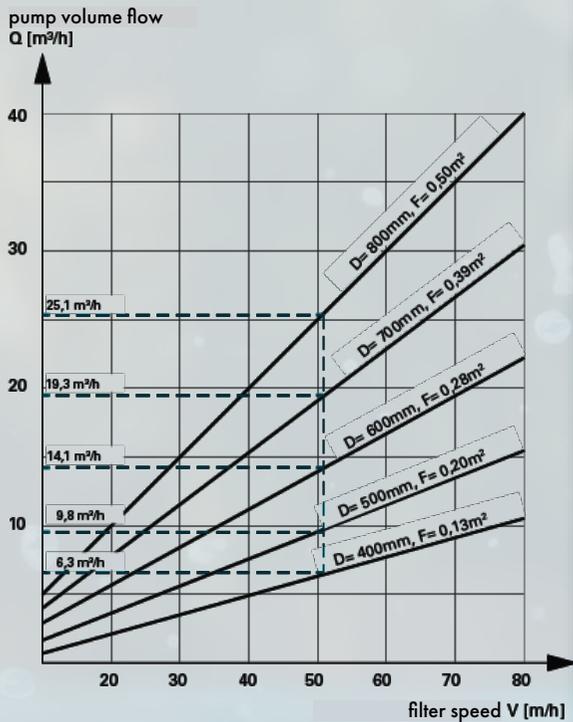
COUNTER-CURRENT SYSTEMS

	P. 74	Speck Badu Jet Turbo Pro
	P. 74	Speck Badu Jet Turbo Pro Salt
NEW	P. 75	Speck Badu Jet Turbo Light
	P. 76	Speck Badu Jet Turbo
	P. 76	Speck Badu Jet Turbo Salt
	P. 78	Speck Badu Jet Primavera
	P. 79	Speck Badu Jet Primavera AK
	P. 80	Speck Badu Jet Smart
	P. 81	Nadorsel Counter-Current System
	P. 82	Hugo Lahme Evolution
	P. 83	Hugo Lahme Taifun Duo



SELECTION OF THE FILTER DIAMETER & PIPE DIAMETER CALCULATION

It is important that the diameter of the filter tank is proportionate to the capacity of the swimming pool pump. This ensures that the dirt has sufficient time to settle in the filter sand during the filtering process. The filter pump should also be powerful enough to effectively flush the dirt out of the filter sand during backwashing. The water flow rate must also be optimal in order to circulate the pool efficiently. The following diagram will help you to determine the filter diameter.

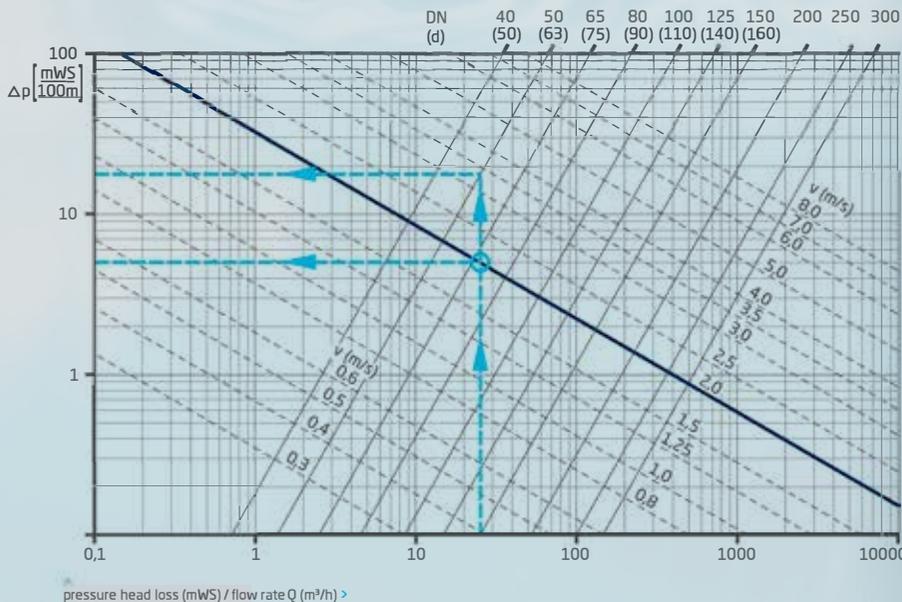


The diagram below helps you to determine pipe friction losses and shows how to calculate the correct pipe diameters.

example $Q = 25 \text{ m}^3/\text{h}$, 20 m plastic pipe with DN 50 $\hat{=}$ d 63 DN 65 $\hat{=}$ d 75
 Loss amount read from table $H_v = 18,00 \text{ m}$ per 100 m 5,00 m per 100 m
loss amount 20 m pipe (times 10/100 $H_v = 3,60 \text{ m}$ 1,00 m
 Control of the flow Velocity $v = 3,40 \text{ m/s}$ (too high) 2,00 m/s (i. O.)

The pressure head losses in this example apply to pure water at a temperature of 20 °C, or for liquids with the same kinematic Viscosity and for new PVC-U pipes.

- DN > pipe inner diameter in mm
- d > tube outside diameter in mm
- > optimum flow rate im Rohr
- - - > example
- > DN 65 or PVC d 75



pressure head loss (mWS) / flow rate Q (m³/h) >



INVERSilence™ Tech by AQUAGEM®

ENERGY SAVING

InverSilence™ by Aquagem is a revolution in the pool industry. The combination of full inverter technology, spiral hydraulic system and brushless DC motor makes the circulation pumps not only the quietest, but also the most efficient on the market!

The Full Inverter technology in circulation pumps represents an advanced approach to efficient control and optimization of the pool water circuit. In contrast to conventional ON/OFF pumps, which operate at constant speeds, a Full Inverter circulation pump enables smoother, stepless start-up and dynamically adapts to the specific requirements of pool operation. This enables considerable energy savings, as it only consumes as much energy as is needed. This not only helps to reduce operating costs, but also reduces the ecological footprint.

The spiral hydraulic system optimizes the water flow and hydraulics of the pump, resulting in improved performance and filtration. At the same time, it helps to make the pumps the quietest on the market. The clever design and interplay of technologies minimizes vibration and significantly reduces noise levels, creating a pleasant and quiet environment around the pool.

The InverSilence technology thus sets new standards for pool circulation pumps by not only offering the highest energy efficiency and performance, but also focusing on low noise. These pumps are ideal for pool owners looking for a powerful, energy-efficient and quiet solution to maximize the pool experience.

WATER AND ENERGY IN HARMONY SUSTAINABILITY THROUGH FULL INVERTER TECHNOLOGY

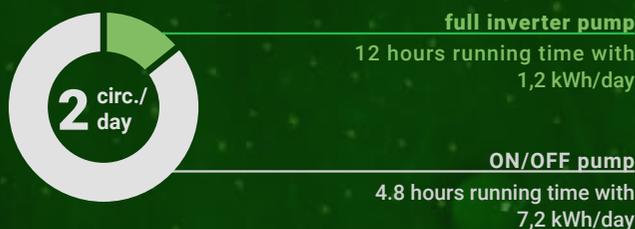
SAVE ENERGY 6-15 times energy savings

Full inverter pumps - Energy consumption

Up to 67,000 kWh in 10 years
With an operating time of 16 hours per day.



Longer filtration, more energy savings
with an operation of 2 circulations per day.



SAVE WATER use water, don't waste it

Why is saving water so important?

The importance of saving water lies in the sustainable use of resources and environmental protection. With Full Inverter circulation pumps, you can not only optimize water circulation, but also minimize consumption. This measure makes a significant contribution to conserving precious resources and promoting environmentally friendly pool operation.

Differences between ON/OFF and inverter pumps.

ON / OFF pumps



- restricted water circulation
- lower water quality
- regular draining of water
- more maintenance work

inverter pumps



- 24h circulation
- perfect water quality
- water saving
- less maintenance effort

C INVERSilence™ Tech

ADVANTAGES FOR YOUR POOL



BETTER HEAT EXCHANGE
Create a better heating effect in the low-speed water circuit.



INTELLIGENT FILTRATION
Improved filtration and durability due to slower water flow.



MORE EFFICIENT DISINFECTION
Optimization for electrolytic cells and sensors to ensure maximum disinfection performance.



EXTENDED PIPE SERVICE LIFE
Slow water flow to reduce friction in the pipes





AQUAGEM INVER MASTER
FULL-INVERTER CIRCULATION PUMP



NEW

ENERGY SAVING

DISTRIBUTION RESTRICTION**

THE QUIETEST

PUMP IN THE WORLD

20x ENERGY SAVING
WITH **INVER MASTER**



20x ENERGY SAVING

Compared to traditional circulation pumps, the **Inver Master** allows you to save money every year*:

- 8.322 kW/h**
save on energy consumption
- 3.328,80 €**
save on electricity costs
- 2.338 kg**
avoid CO2 emissions
- 130**
planting trees

*Example: An 8 x 4 m pool with year-round operation runs for an average of 16 hours, 365 days a year. The electricity price is €0.40/kWh.

UP TO 40 TIMES QUIETER **30** dBA

In addition to the InverSilence technology, the water cooling system makes the pump fan-free and the operating noise level is only 30 dB(A)/1m. This corresponds to a 40-fold noise reduction compared to a conventional circulation pump.

Whisper / Inver Master
30 dB





INTUITIVE CONTROL WITH THE INVER FLOW APP

The Aquagem Inver Master pump is made even more intuitive by the innovative Inver Flow app. With this app, you have full control over important parameters such as flow rate, power consumption and pump capacity at any time and from anywhere. The app not only enables convenient monitoring, but also flexible adjustment of operating modes and programmable timers. This allows you to control the water circuit according to your individual schedule.

-  Operating mode (*inverter/manual*)
-  Flow rate display in m³/h
-  Power consumption display in watts
-  „One click“ backwash

Laden im
 App Store

JETZT BEI
 Google Play

INVER SILENCE TECHNOLOGY

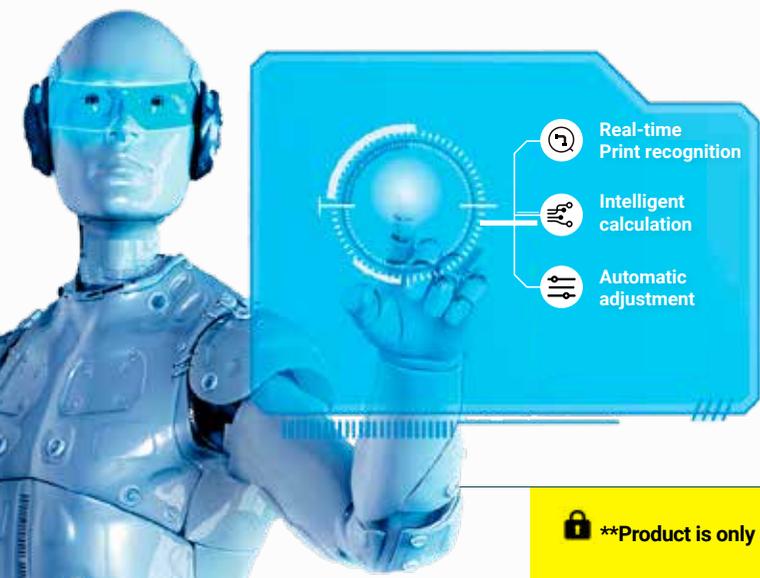
The pump is the heart of the pool. For decades, the high energy consumption and noise of a circulation pump was a well-known problem. To address this challenge, Aquagem has developed the pioneering **Inver Silence** technology, the leading technology for noise reduction and efficiency improvement.

The technology combines the inverter drive, the Volute hydraulic structure and the brushless DC motor to precisely control the speed through intelligent algorithms.



ARTIFICIAL INTELLIGENCE TECHNOLOGY

The inverter „brain“ can not only monitor the changes in line pressure and make intelligent calculations, but also send commands to the pump motor to automatically adjust the flow range and operating capacity. Therefore, the pump can not only provide users with line detection and early warning service, but also set a reasonable flow rate.





External control
*RS485 Modbus, digital input,
analog input, relay output*



High-quality components
*brushless IE5 DC motor,
mechanical seal: SUS316*



Soft Start
*the pump starts from 0 ampere
to the rated power continuously*



No-water protection
to protect the pump from running dry



Suitable for salt electrolysis
saltwater concentration up to 0.5%.

INTUITIVE USER INTERFACE

The intuitive user interface makes it easy to control and monitor various operating parameters. For example, you can easily keep an eye on the flow rate, power consumption and pump capacity and adjust them if necessary.

The controller also offers various operating modes and programmable timer functions that allow the water circuit to be adapted to individual schedules. Experience uncomplicated handling and maximum efficiency with the intelligent control of the **Inver Master** pump.

HYDRAULIC SPIRAL STRUCTURE

The hydraulic spiral structure not only reduces turbulence and pressure losses, but also enables more efficient circulation of the water in the pool.

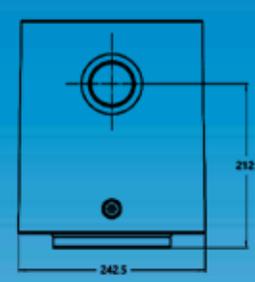
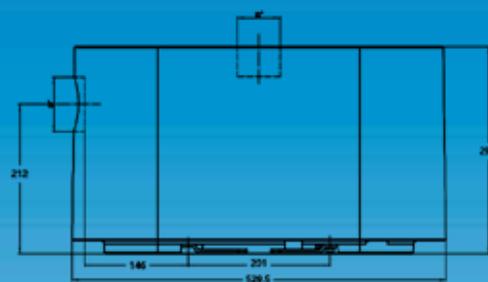
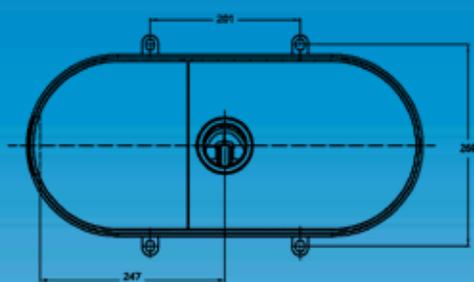
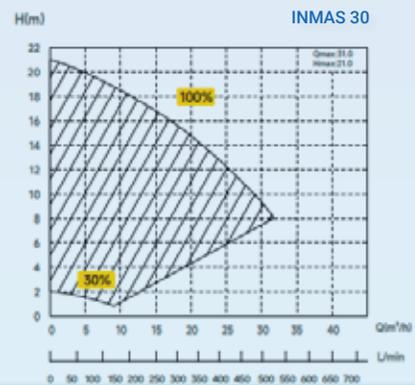
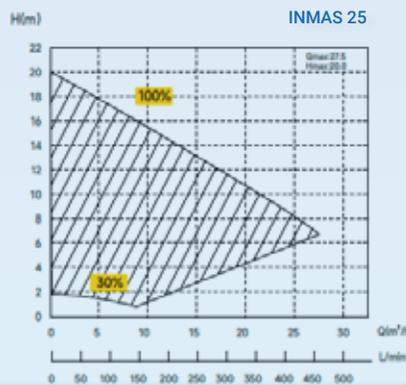
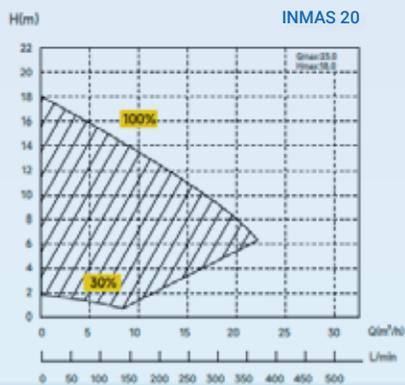


BRUSHLESS IE5 DC MOTOR

The Inver Master pump combines maximum energy efficiency through the use of an efficient brushless IE5 DC motor. This solution not only enables precise speed control (**1200 - 2900 rpm**), but also offers low maintenance, quiet operation and adaptability to current requirements.



Technical data	Inver Master 20	Inver Master 25	Inver Master 30
Voltage	230 V/50 Hz		
Power consumption P1	max. 0,80 kW	max. 1,10 kW	max. 1,40 kW
Power output P2	max. 0,62 kW	max. 0,92 kW	max. 1,20 kW
Suction side connection	2" IG		
Pressure side connection	2" IG		
Pump capacity*	23 m ³ /h	27,5 m ³ /h	31 m ³ /h
Weight	23 kg		
Protection class	IP55		



Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Connection	Weight	Code
InverMaster 20 ¹⁾	230V/50 Hz	max. 0,80 kW	max. 0,60 kW	23 m ³ /h	2" IG	23 kg	INMAS20
InverMaster 25 ¹⁾	230V/50 Hz	max. 1,10 kW	max. 0,92 kW	27,5 m ³ /h	2" IG	23 kg	INMAS25
InverMaster 30	230V/50 Hz	max. 1,40 kW	max. 1,20 kW	31 m ³ /h	2" IG	23 kg	INMAS30

*Pump capacity at 8 m/Ws

¹⁾ Not a stock item, available on request.



AQUAGEM INVER WARRIOR
FULL-INVERTER CIRCULATION PUMP



NEW

ENERGY SAVING

DISTRIBUTION RESTRICTION**

MODERN, TRENDY INTELLIGENT

15x ENERGY SAVING
WITH **INVER WARRIOR**



ESSENTIAL ADVANTAGES

- External control**
RS485 Modbus, digital input, analog input, relay output
- WiFi optional**
The pump can be controlled at any time and from anywhere.
- Soft Start**
With inverter technology, the pump starts up continuously from 0 amps to the rated output.
- Suitable for salt electrolysis**
Saltwater concentration up to 0.5%.
- No-water protection**
to protect the pump from running dry

ENERGY SAVING WITH MAGIC INVERTER

Thanks to the use of inverter technology, the operating capacity can be precisely regulated from 30% to 100%. The motor speed can be precisely controlled (**between 1200 - 2900 rpm**), which enables a **15-fold energy saving** compared to classic circulation pumps.

100w
10m³/h

200w
14.2m³/h

1050w
24.5m³/h





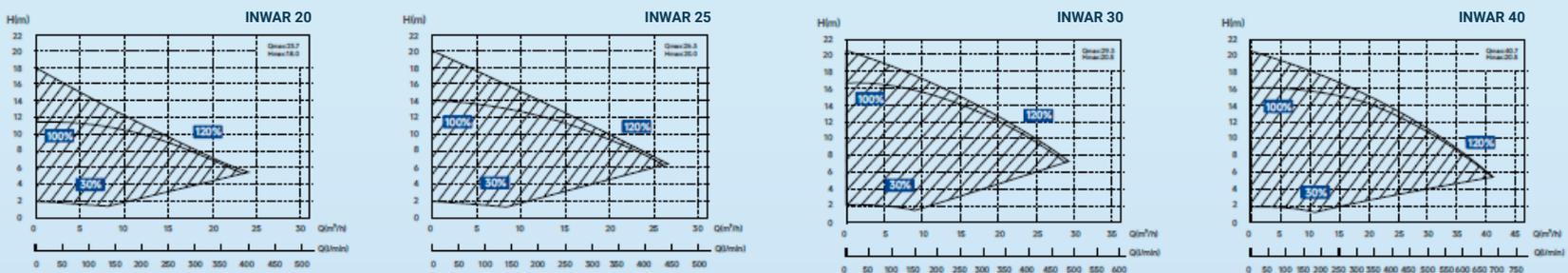
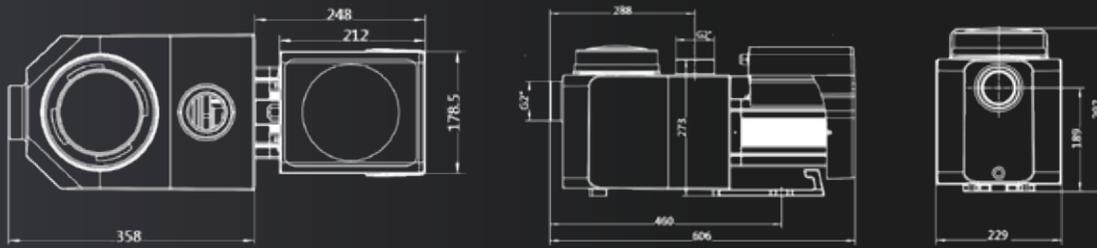
FULL TOUCH DISPLAY

- Operating mode (Inverter/Manual)
- Flow rate indicator in m³/h
- Power consumption display in watts
- „One click“ Backwash

Technical data	Inver Warrior 20	Inver Warrior 25	Inver Warrior 30	Inver Warrior 40
Voltage	230 V/50 Hz			
Power consumption P1	max. 0,75 kW	max. 1,05 kW	max. 1,40 kW	max. 1,75 kW
Power output P2	max. 0,60 kW	max. 0,85 kW	max. 1,15 kW	max. 1,50 kW
Pump capacity*	18,3 m ³ /h	23,6 m ³ /h	28,2 m ³ /h	36,2 m ³ /h
Suction side connection	2" IG			
Weight	17,5 kg	17,5 kg	17,5 kg	18,5 kg
Max. water temperature	50°C			
Protection class	IP55			
Code	INWAR20	INWAR25	INWAR30	INWAR40

30 TIMES QUIETER

- Whispering **30 dB**
- Refrigerator / Inver Warrior **33 dB**
- Washing machine **60 dB**
- Standard circulation pump **70 dB**



Version	Voltage	Power consumption P1	Power output P2	Power output P2	Connection	Weight	Code
InverWarrior 20 ¹⁾	230V/50 Hz	max. 0,75 kW	max. 0,60 kW	18,3 m ³ /h	2" IG	17,5 kg	INWAR20
InverWarrior 25	230V/50 Hz	max. 1,05 kW	max. 0,85 kW	23,6 m ³ /h	2" IG	17,5 kg	INWAR25
InverWarrior 30 ¹⁾	230V/50 Hz	max. 1,40 kW	max. 1,15 kW	28,2 m ³ /h	2" IG	17,5 kg	INWAR30
InverWarrior 40	230V/50 Hz	max. 1,75 kW	max. 1,50 kW	36,2 m ³ /h	2" IG	18,5 kg	INWAR40

*Pump capacity at 8 m/Ws

¹⁾ Not a stock item, available on request.



FREQUENCY-CONTROLLED CIRCULATION PUMP, SELF-PRIMING

DAB E.SWIM

ENERGY SAVING

EXTREMELY QUIET!

THE QUIETEST AND MOST EFFICIENT ELECTRONIC SWIMMING POOL PUMP

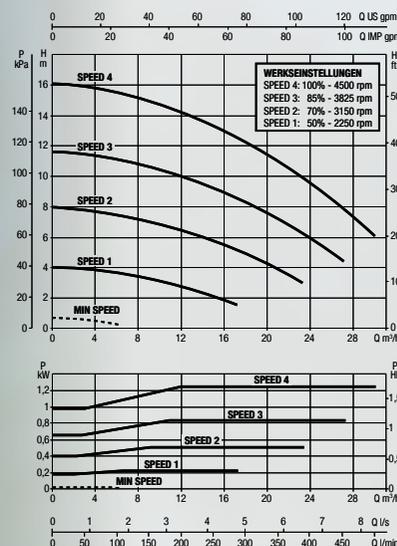
Permanent magnet motor, extremely quiet, due to water cooling (no fan)

- Adjustable from 10-100%, adjustable speed in rpm or a constant flow in m³/h (min. 6 m³/h)
- Timer with 4 steps
- For pools with a volume of up to 200 m³
- Can be set up max. 10 m above or 4 m below the water level, with integrated fibre trap (capacity approx. 4 l)
- Including two drain plugs for pre-filter and pump housing
- Protection class IPX5
- LCD display 2.75" x 1.85" with integrated filter control,
- Frost protection, quick-clean mode and possible locking of the display
- Error memory: key lock of the display is possible
- The motor or pump shaft does not come into contact with the water with the water in the circuit. Electrical separation.
- Delivery without connection cable,
- Large stand with rubber feet
- Noise level ~45 dB at 1 m distance (at 60% power).
- Note: Internal time control, for external control the control cable # ESWIM1-E1 is required.
- Control is possible as follows: manually with 4 steps, via timer with 4 steps or externally (0-10V, 4-20mA or PWM signal)
- Salt electrolysis suitable: yes (up to 3.5%)
- Sea water suitable: yes (up to 3.5%)

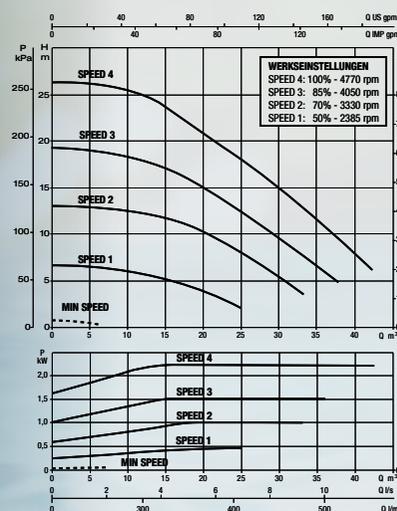


- ✓ WATER COOLING
- ✓ INTEGRATED CONTROL
- ✓ SALT RESISTANT

E.SWIM 150



E.SWIM 300



Version	Voltage	Power input	Power output	Pump capacity*	Connections (suction and pressure side)	Weight	Article
E.SWIM 150	230 V/50 Hz	max. 1,25 kW	max. 1,1 kW	27 m ³ /h	2" IG	19 kg	ESWIM1
E.SWIM 300	230 V/50 Hz	max. 2,25 kW	max. 1,9 kW	40 m ³ /h	2" IG	21,3 kg	ESWIM2



CONTROL CABLE

DAB E.SWIM

Communication cable 16 m length
 For external control of the E.SWIM pump, 12-pole



Version	Length	Weight	Code
DAB E.SWIM Steuerkabel	16 m	2,25 kg	ESWIM1-E1



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.

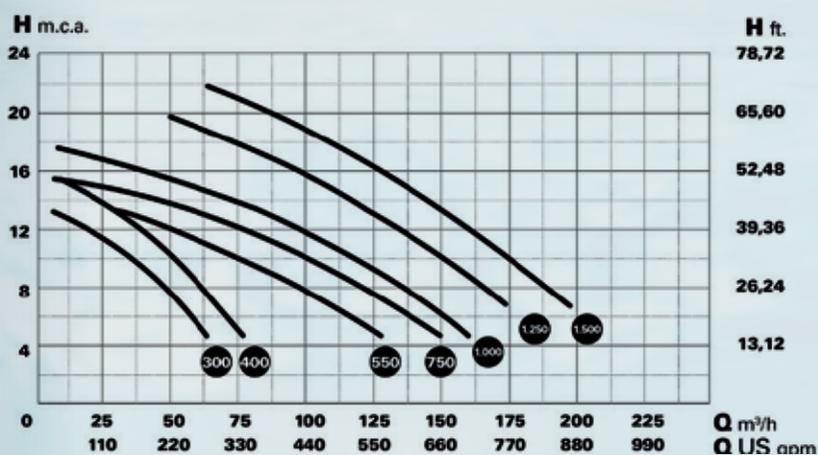
Mechanical seal in ceramic carbon and AISI-304 stainless steel. Screws in AISI-304 stainless steel. Shaft in AISI-316 stainless steel.

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.



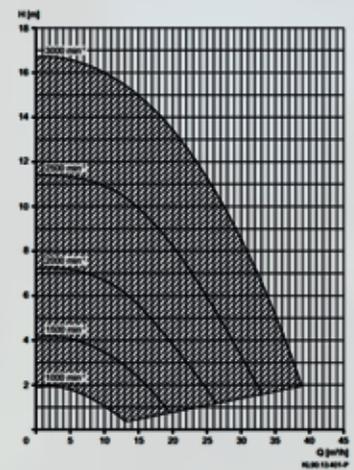
Version	Voltage	Power output kW	Power output HP	Pump capacity*	r.p.m.	Connection on suction and on pressure side	Weight in kg	Code Noryl Impeller	Code Bronze Impeller
MIDA.Aurel 300	380 V	2,2	3,0	43 m ³ /h	1.450	DN 110 flanged	42,5	993.3	
MIDA.Aurel 400	380 V	3,0	4,0	56 m ³ /h	1.450	DN 110 flanged	44,5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



SPECK BADU DELTA ECO VS



DEECO



THE MOST EFFICIENT BADU PUMP EVER!

The BADU Delta Eco VS swimming pool pump has a motor display with intuitive control, which ensures low power consumption. It is particularly quiet and efficient thanks to its new hydraulic design. LED lighting in the transparent cover allows easy visual inspection. Internal drain plugs prevent the risk of breakage. The permanent magnet motor ensures efficient energy savings.

- Permanent magnet motor
- LED in transparent lid
- Adjustable speeds: 600 - 3,000 rpm (in steps of 10), for pools with a volume of up to 150 m³.
- Can be installed max. 3 m above or below the water level, with integrated fiber trap (capacity approx. 4 l), can be used for swimming pool water with a salt concentration of up to 0.5 % (corresponds to 5 g/l).
- **Info button on the LED display for current consumption in kW.**
- The motor or pump shaft does not come into contact with the water in the circuit. Electrical isolation.
- Delivery **includes** 3 m connection cable.
- Noise level 35.7 - 65.6 dB at a distance of 1 m.
- **Note:** External time control via potential-free contacts.
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no

The pump is also available in a version with magnetic coupling (**without** mechanical seal) (#DEMCO, see catalog page 57).



Klarsichtdeckel mit LED Beleuchtung

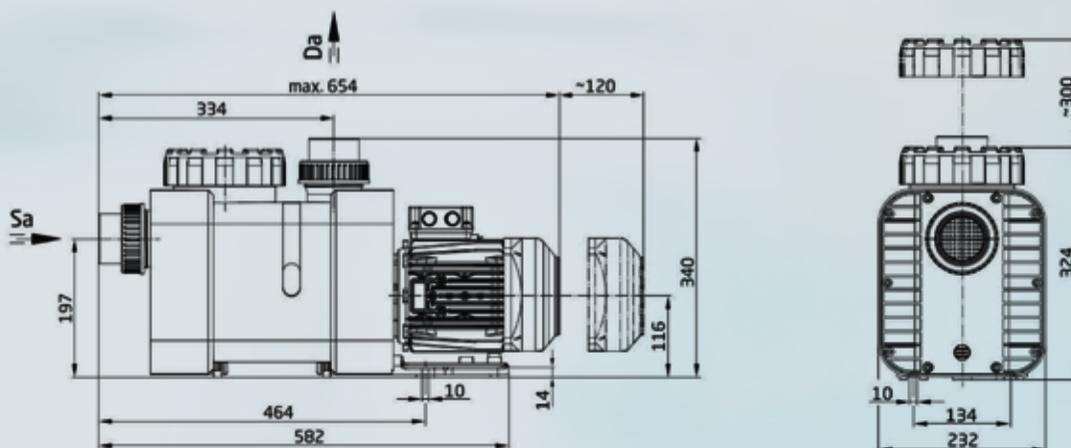


Technical data	
Voltage	230 V/50 Hz
Power consumption P1	0,37 bis 1,4 kW
Power output P2	0,03 bis 1,1 kW
Pump capacity*	31 m ³ /h
Suction side connection	63 mm adhesive
Pressure side connection	63 mm adhesive
Weight	14 kg
Pool size	max. 150 m ³
Protection class	IP55

*Pump capacity at 8 m/Ws



#DEECO



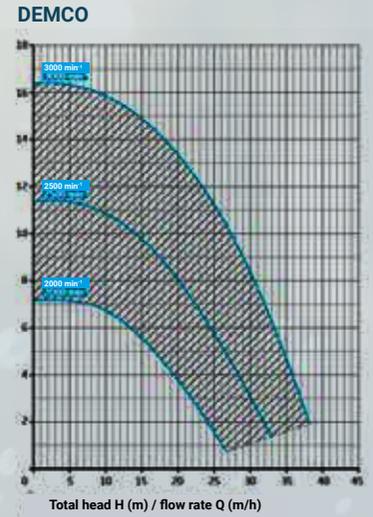
Version	Code
BADU Delta Eco VS	DEECO

SPECK BADU DELTA-MK ECO VS



THE MOST EFFICIENT BADU PUMP EVER!

- Permanent magnet motor
- LED in transparent lid
- Adjustable speeds: 2000 - 3,000 rpm (in steps of 10), for pools with a volume of up to 150 m³.
- Can be installed max. 3 m above or below the water level, with integrated fiber trap (capacity approx. 4 l), can be used for swimming pool water with a salt concentration of up to 0.5 % (corresponds to 5 g/l).
- **Info button on the LED display for current consumption in kW.**
- The motor or pump shaft does not come into contact with the water in the circuit. Electrical isolation.
- Delivery **includes** 3 m connection cable
- Noise level 35.7 - 65.6 dB at a distance of 1 m
- **Note:** External time control via potential-free contacts
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no



Technical data	
Voltage	230 V/50 Hz
Power consumption P1	0,48 bis 1,8 kW
Power output P2	0,37 bis 1,4 kW
Pump capacity*	31 m ³ /h
Suction side connection	63 mm Adhesive
Pressure side connection	63 mm Adhesive
Weight	14 kg
Pool size	max. 150 m ³
Protection class	IP55

*Pump capacity at 8 m/Ws

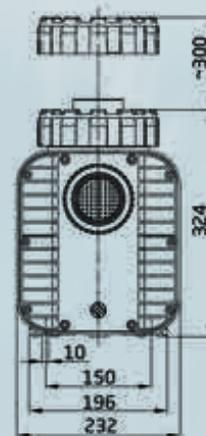
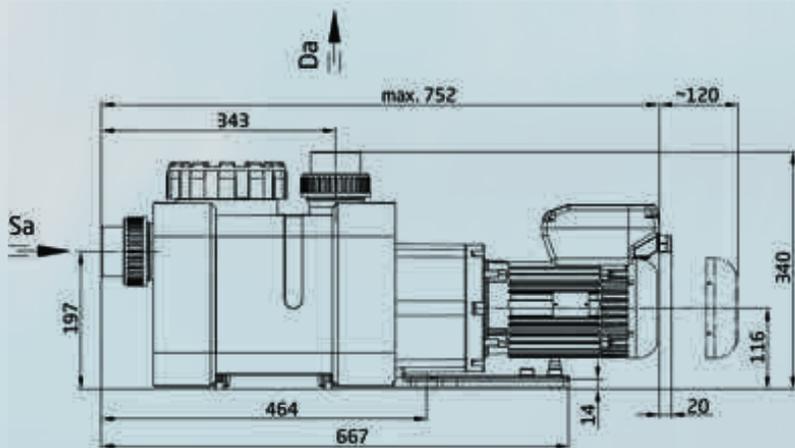
with magnetic coupling
(without mechanical seal)



Transparent lid with LED lighting



#DEMCO



Version	Code
BADU Delta-MK Eco VS	DEMCO



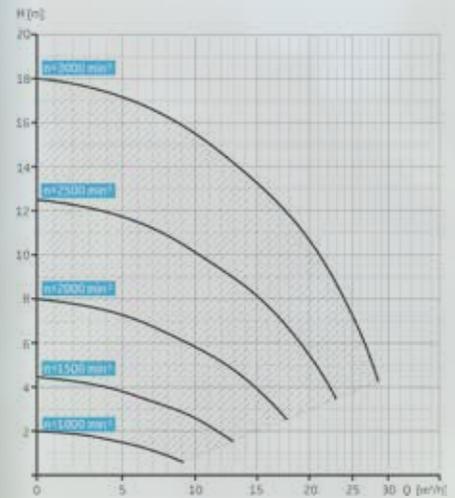
SPECK BADU PRIME ECO VS



Speck BADU Prime Eco VS combines the successful design with a synchronous compact drive to create a highly efficient power pack in a space-saving design. An integrated control panel and simple menu navigation ensure easy handling.

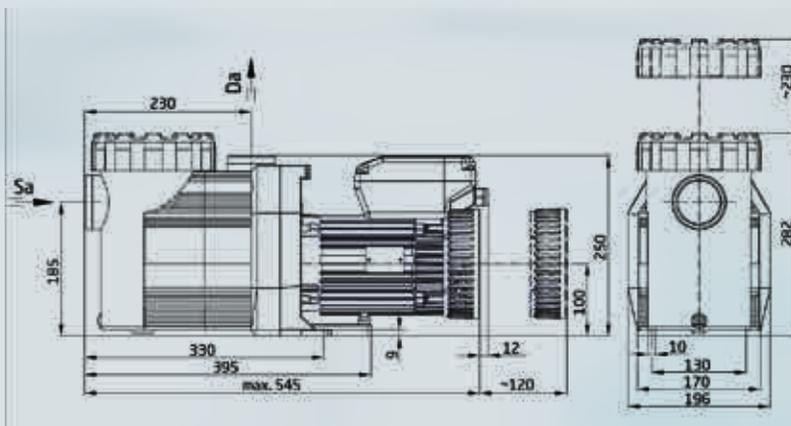
The tried-and-tested membrane keypad with 8 buttons without double assignment makes it easy to make settings. Savings are possible with the BADU Prime Eco VS via the speed adjustment, the info button informs you about the current consumption. The suction parameters of the pump can be programmed variably.

- **Permanent magnet motor**, adjustable speeds from 1,000 - 3,000 rpm (in steps of 10), for pools with a volume of up to 120 m³.
- Can be installed max. 3 m above or below the water level, with integrated fibre trap integrated fibre trap (capacity approx. 3 l), can be used for swimming pool water with asalt concentration of up to 0.5 % (corresponds to 5 g/l).
- **Info button on the LED display for current consumption in kW.**
- Bellows mechanical seal mounted on plastic impeller hub,
- The motor or pump shaft does not come into contact with the water in the circuit - electrical separation.
- Delivery **includes** 3 m connection cable.
- Noise level 36.7 - 62.5 dB at a distance of 1 m distance.
- **Note:** External time control via potential-free contacts.
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no



Technical data	
Voltage	230 V/50 Hz
Power consumption P1	0,08 - 1,4 kW
Power output P2	0,3 - 1,10 kW
Pump capacity*	24 m ³ /h
Suction side connection	2" IG
Pressure side connection	1 ½" IG
Weight	11,5 kg
Pool size	max. 120 m ³
Protection class	IP55

*Pump capacity at 8 m/Ws



Version	Code
BADU Prime Eco VS	PRECO

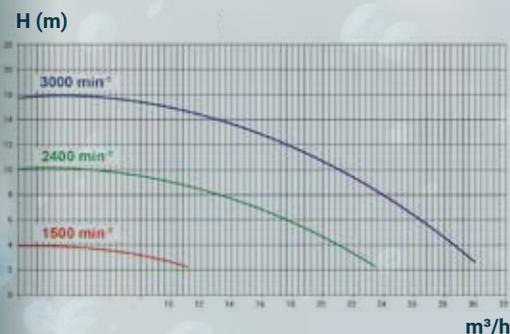


KRIPSOL KS EVO VS



ENERGY SAVING

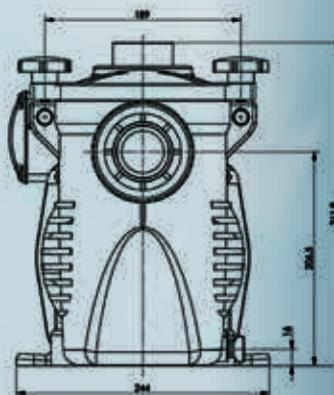
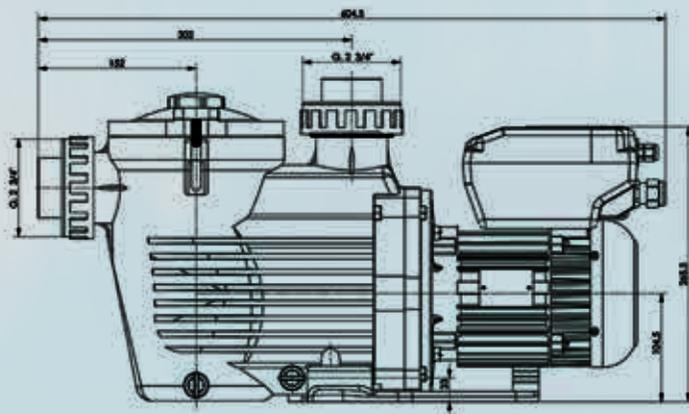
- Permanent magnet motor, setting of 3 speeds from 600 - 3,000 rpm. (in steps of 20) and up to 5 filter times, for pools with a volume of up to 120 m³, Can be set up max. 3 m above and below the water level, with integrated fibre catcher integrated fibre catcher (capacity approx. 4 l),
- **Including** two drain plugs ¼" for pre-filter and pump housing, can be used for swimming pool water with a salt concentration of up to 1.6% (corresponds to 16 g/l),
- **Including** skimmer function, to vacuum the water surface with more power every 1, 2 or 3 hours in energy-saving filter mode the water surface with more power.
- (speed: 600-3,000 rpm, duration 0-30 min).
- Protection class IP55
- Motor or pump shaft does not come into contact with the water in the circuit water in the circuit - electrical separation,
- Supplied **without** connection cable,
- Noise level 48-68.5 dB at 1 m distance,
- **Note:** Internal time control
- Suitable for salt electrolysis: yes (up to 1.6%)
- Suitable for seawater: no



Technical data

Voltage	230 V/50 Hz
Power consumption P1	max. 1,24 kW
Power output P2	max. 1,10 kW
Pump capacity*	24 m ³ /h
Suction side connection	63/50 mm Adhesive
Pressure side connection	63/50 mm Adhesive
Weight	15 kg
Pool size	max. 120 m ³
Protection class	IP55

*Pump capacity at 8 m/Ws



Version

Code

KS Evo VS

KSEVO

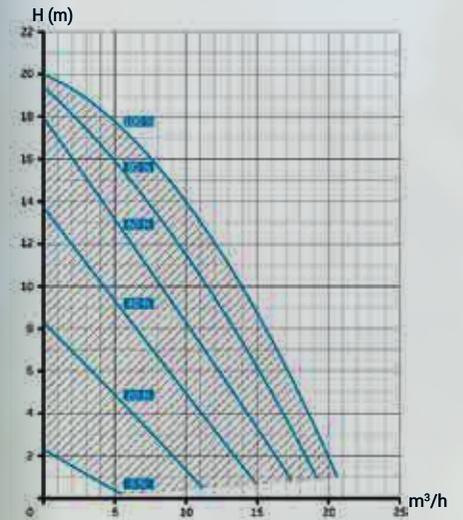


SPECK BADU ALPHA ECO SOFT



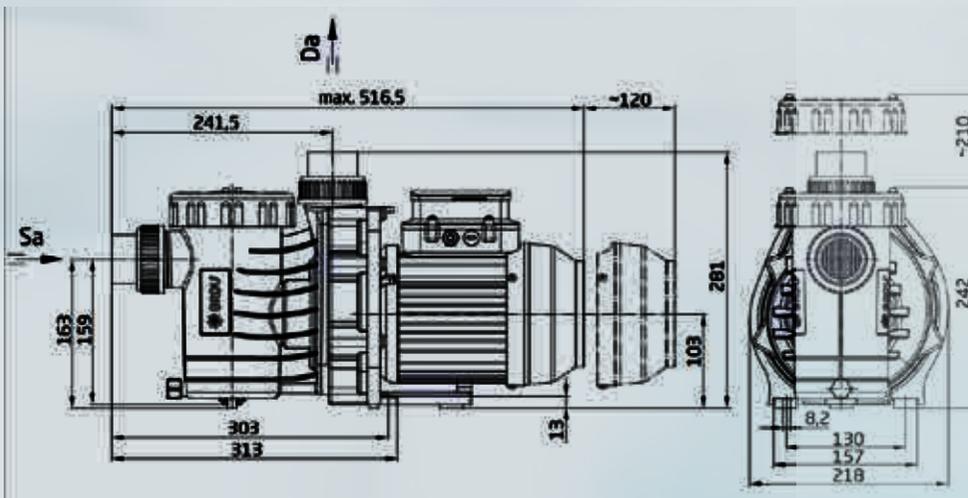
The BADU Alpha Eco Soft has been developed for swimming pools with a water volume of 30 - 90 m³. It is therefore the most efficient solution for smaller pools. The noise-optimised motor ensures ideal utilisation of the motor power. Thanks to variably programmable power levels, the pump has a higher degree of efficiency. The pump fulfils every requirement for maximum efficiency and environmental friendliness.

- Permanent magnet motor, adjustable output from 5 - 100 % (in 1 % increments), corresponds to 800 - 3,450 rpm, for pools with a volume of up to 80 m³.
- Can be installed max. 2 m above or 3 m below the water level, with integrated fibre trap (capacity approx. 0.5 l), can be used for swimming pool water with a salt concentration of up to 0.5 % (corresponds to 5 g/l).
- Protection class IP55.
- LED display with current motor power in percent.
- The motor or pump shaft does not come into contact with the water in the circuit. Electrical isolation.
- Delivery includes 3 m connection cable.
- Noise level 36.7 - 64.1 dB at a distance of 1 m.
- **Note:** External time control via potential-free contacts.
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no



Technical data	
Voltage	230 V/50 Hz
Power consumption P1	0,04 bis 0,75 kW
Power output P2	0,50 kW
Pump capacity*	15,5 m ³ /h
Suction side connection	50 mm adhesive
Pressure side connection	50 mm adhesive
Weight	7,5 kg
Pool size	10 - 60 m ³
Protection class	IP55

*Pump capacity at 8 m/Ws



Version	Code
BADU Alpha Eco Soft	ALECO



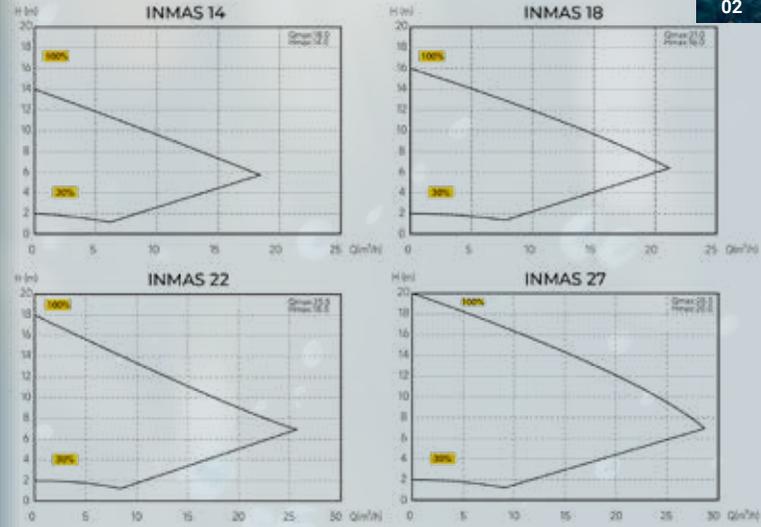
AQUAGEM INVERSMART

ENERGY
SAVING

NEW

- **Extremely quiet** - the noise level is only 36 dB
- **Intuitive interface:**
 - Operating mode (Full Inverter / Manual)
 - Power consumption display in watts
 - Flow rate display in m³/h
- **Connection for external control unit**
- **Softstart** - the pump starts up continuously from 0 amps to the rated output.
- **No-Water Protection** - to protect the pump from running dry
- **Including** filter control (4 timers)
- Can be installed max. 2 m above the water level
- Protection class IP55
- Suitable for salt electrolysis: yes (up to 0.5%)
- Suitable for seawater: no

Intuitive
Interface

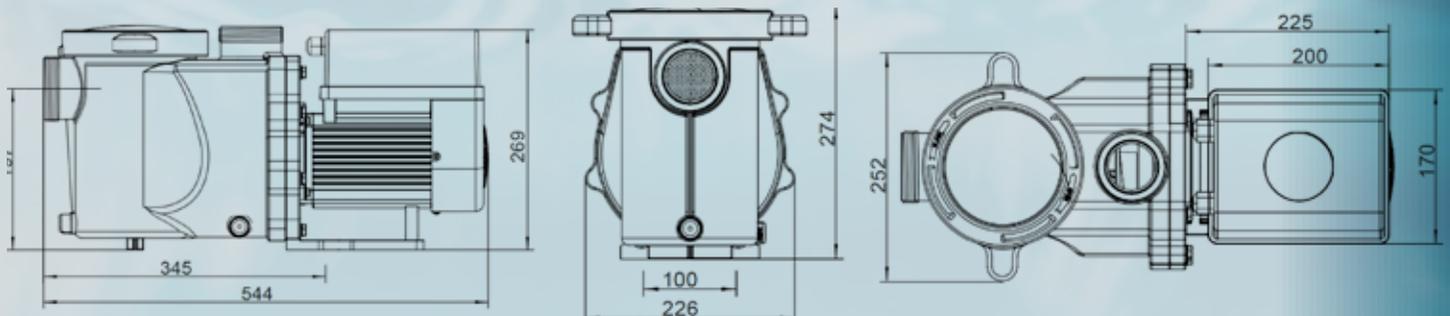


Power consumption display
4 timers for daily operation
Mileage from 30%~100%
Backwash with one click

Efficiency class of the motor: IE4
 For increased efficiency and
 to achieve extremely smooth running

Soft start
 Continuous start from 0 amps up to the rated current

External control optional:
 Digital input
 To control your pump with more choice



Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Suction side connection	Pressure side connection	Code
InverSmart 14	230V/50 Hz	max. 0,60 kW	max. 0,47 kW	18 m ³ /h	2" IG	2" IG	INSMA14
InverSmart 18 ¹⁾	230V/50 Hz	max. 0,75 kW	max. 0,59 kW	21 m ³ /h	2" IG	2" IG	INSMA18
InverSmart 22	230V/50 Hz	max. 1,00 kW	max. 0,80 kW	25,5 m ³ /h	2" IG	2" IG	INSMA22
InverSmart 27 ¹⁾	230V/50 Hz	max. 1,35 kW	max. 1,10 kW	28,5 m ³ /h	2" IG	2" IG	INSMA27

¹⁾ No stock Version, available on request.



SPECK BADU NETLINK

RETROFITTABLE APP CONTROL FOR FREQUENCY-CONTROLLED SPECK PUMPS

NEW

The BADU NetLink system transforms existing variable-speed Speck pumps into smart, remote-controlled devices.

ENERGY SAVING

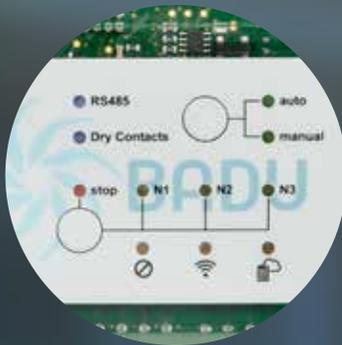
The connection is made easily via potential-free contacts or RS485, which are then connected to the BADU NetLink. With WLAN access to the BADU Connect Server, the pump can be controlled from anywhere.

This allows the filter times and speeds of the filter pump to be set and the current power consumption to be monitored via RS485. Without an RS485 connection, e.g. for the compatible pumps listed below, you can choose between the three stages set on the pump instead of the individual speed. For additional safety, a leakage sensor can be connected in the event of a leak in the pump.

- Easy installation via the cable on the pump
- 230 V connection
- Connection to the home network via LAN cable or WLAN
- ABS housing
- Weight: 430 g

NetLink is suitable for the following Speck circulation pumps:

- ✓ BADU Alpha Eco Soft
- ✓ BADU Prime Eco VS
- ✓ BADU Delta Eco VS
- ✓ BADU Delta-MK Eco VS

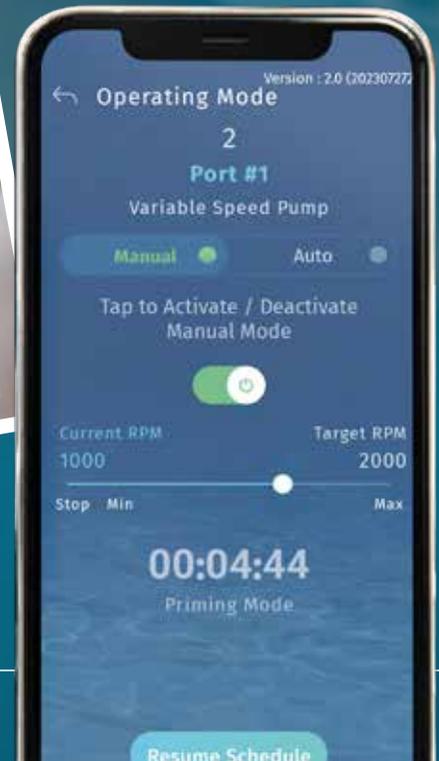


BADU CONNECT APP

JETZT BEI Google Play



Laden im App Store



Version	Code
BADU NetLink	NETLI





FREQUENCY INVERTER
iSAVER

★ ★ ★
**5 YEARS
MANUFACTURER'S
WARRANTY**

NEW

**ENERGY
SAVING**

MAKE YOUR PUMP A **FULL INVERTER**

80% ENERGY SAVING WITH **iSAVER^x**

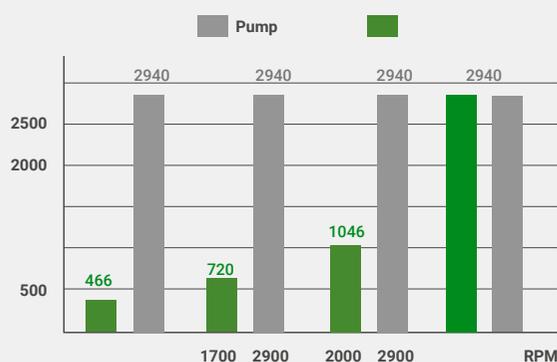


WHAT IS A **FREQUENCY CONVERTER?**

The frequency converter is a device that converts alternating current from one frequency to another. The majority of pool pumps installed on the market are currently equipped with a single speed setting. While they are powerful for heavy-duty tasks such as backwashing, this is not required all the time, as is the case with pumping or filtration. The **iSaver^x** makes it possible to convert your existing circulation pump into an inverter pump (frequency-controlled).

UP TO 80% **ENERGY SAVING**

With the **iSaver^x**, the pump speed can be set to adapt to different operating conditions, significantly reducing operating costs.



HIGH QUALITY HOUSING

With modern touch screen display

EXTERNAL CONTROL

Digital inputs, RS485 and relay outputs for external control

SIMPLY PLUG & PLAY

Effortless and simple installation on the wall

MODERN TECHNOLOGY

Enables 35 pump speeds and has 4 timers

EFFICIENT COOLING

High-quality aluminum heat sink with two fans for efficient cooling.

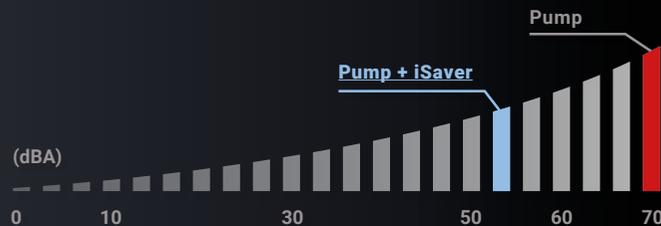


INNOVATIVES FULL-TOUCH DISPLAY

- 1200 W** Power consumption
- 2355** Engine speed
- Night mode (low speed)
- Daytime mode (average speed)
- Backwash (high speed)
- 88:88** Current time
- Timer sequence

THE CIRCULATION PUMP UP TO 25% QUIETER

Operation at low speed promises a much more pleasant user experience and can reduce the noise level of the pump up to 25%.



SIMPLE PLUG & PLAY

Version	Voltage	Output	Output power	Weight	Code
iSaver 1	230 V/50 Hz	0 - 240 V	max. 1,1 kW	5 kg	ISAVE1
iSaver 2 ¹⁾	230 V/50 Hz	0 - 240 V	max. 2,2 kW	5 kg	ISAVE2

¹⁾ No stock item, available on request.

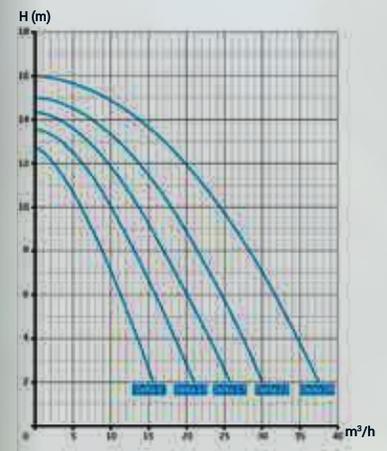


SPECK BADU DELTA



This pump has a maintenance-free motor with high-performance ball bearings and a stainless steel motor shaft. It is particularly quiet and efficient as it has been hydraulically redesigned. LED lighting with transparent cover for easy visual inspection. Internal drain plugs prevent the risk of breakage and high-efficiency technology results in a higher flow rate with lower energy consumption.

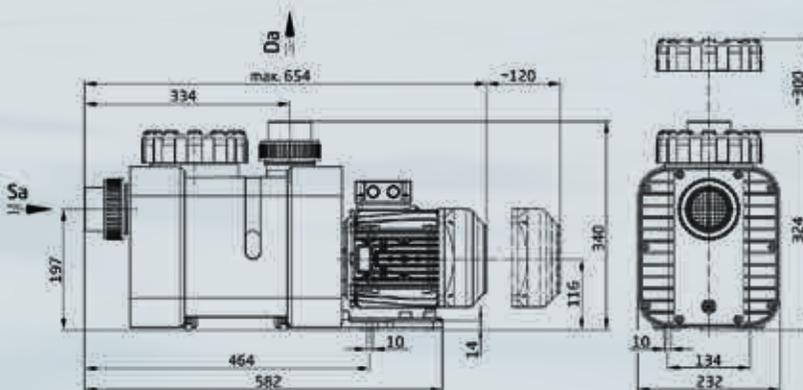
- For pools with a volume of up to 170 m³.
- Can be installed above and below the water level, max. 3 m each, with integrated fiber catcher (capacity approx. 4 l), can be used up to a salt concentration of 0.5 %.
- Bellows mechanical seal mounted on plastic running hub.
- The motor or pump shaft does not come into contact with the water in the circuit.
- Electrical isolation.
- Protection class IP55.
- Supplied **without** connection cable.
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no



Transparent lid with LED lighting



Photo: Speck Pumpen



Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Suction side connection	Pressure side connection	Weight kg	Code
BADU Delta 9	230 V	0,54 kW	0,30 kW	9 m ³ /h	50 mm	50 mm	12,8	DE09
BADU Delta 9	400 V	0,51 kW	0,30 kW	9 m ³ /h	50 mm	50 mm	11,8	DE09D
BADU Delta 13	230 V	0,69 kW	0,45 kW	13 m ³ /h	63 mm	63 mm	12,8	DE13
BADU Delta 13	400 V	0,63 kW	0,45 kW	13 m ³ /h	63 mm	63 mm	12,6	DE13D
BADU Delta 17	230 V	0,87 kW	0,55 kW	17 m ³ /h	63 mm	63 mm	14,2	DE17
BADU Delta 17	400 V	0,81 kW	0,55 kW	17 m ³ /h	63 mm	63 mm	13,9	DE17D
BADU Delta 22	230 V	1,10 kW	0,75 kW	21 m ³ /h	63 mm	63 mm	15,6	DE22
BADU Delta 22	400 V	1,00 kW	0,75 kW	21 m ³ /h	63 mm	63 mm	15,4	DE22D
BADU Delta 28	230 V	1,40 kW	1,00 kW	28 m ³ /h	63 mm	63 mm	19,0	DE28
BADU Delta 28	400 V	1,26 kW	1,00 kW	28 m ³ /h	63 mm	63 mm	19,8	DE28D





SPECK BADU PRIME

25 - 48

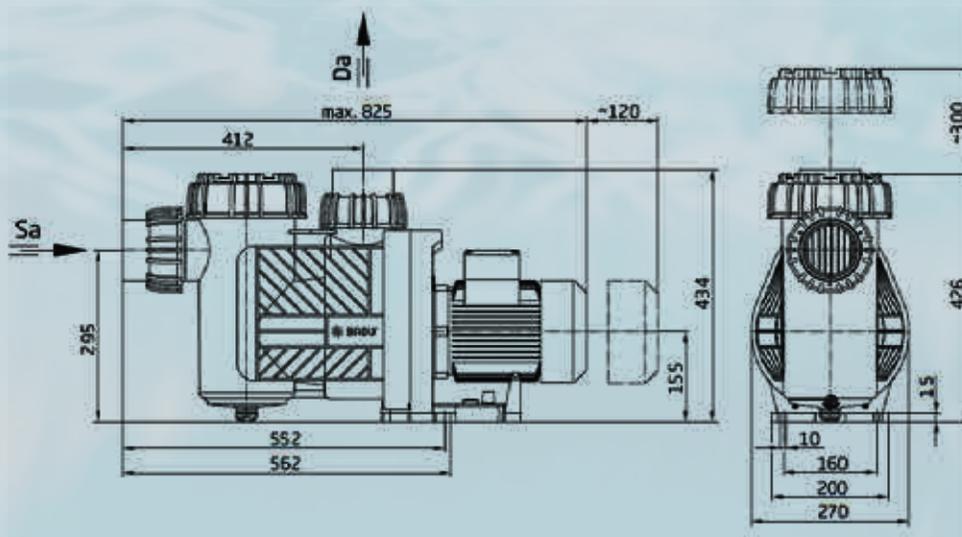
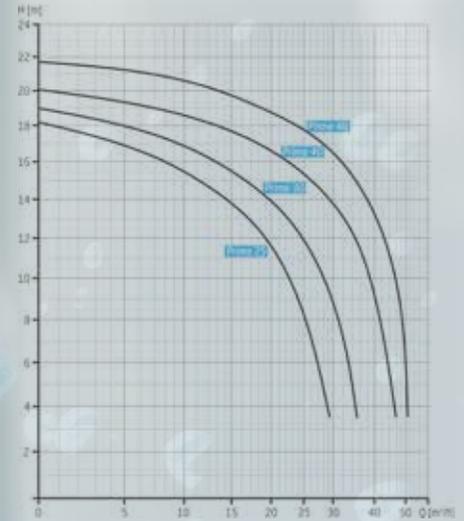


- For pools with a volume of up to 250 m³.
- Can be installed above or below the water level, max. 3 m in each case, with integrated fiber trap (capacity BADU Prime 7 - 20: approx. 3 l, BADU Prime 25 - 48: approx. 6 l), can be used up to a salt concentration of 0.5 % (corresponds to 5 g/l).
- Bellows mechanical seal mounted on plastic impeller hub, motor or pump shaft does not come into contact with the water in the circuit.
- Electrical isolation.
- Supplied **without** connection cable.
- Protection class IP55.
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no



Badu Prime 25-48

Badu Prime 25-48



Version	Voltage	Power consumption P1 P2	Power output	Pump capacity*	Suction side connection	Connection pressure side	Weight kg	Code
BADU Prime 25	400 V/50 Hz	1,55 kW	1,30 kW	25 m ³ /h	75 mm Klebe	75 mm Klebe	21,0	PR25
BADU Prime 30	400 V/50 Hz	2,00 kW	1,50 kW	30 m ³ /h	75 mm Klebe	75 mm Klebe	21,0	PR30
BADU Prime 40	400 V/50 Hz	2,90 kW	2,20 kW	40 m ³ /h	90 mm Klebe	90 mm Klebe	24,0	PR40
BADU Prime 48	400 V/50 Hz	3,45 kW	2,60 kW	48 m ³ /h	110 mm Klebe	110 mm Klebe	26,0	PR48

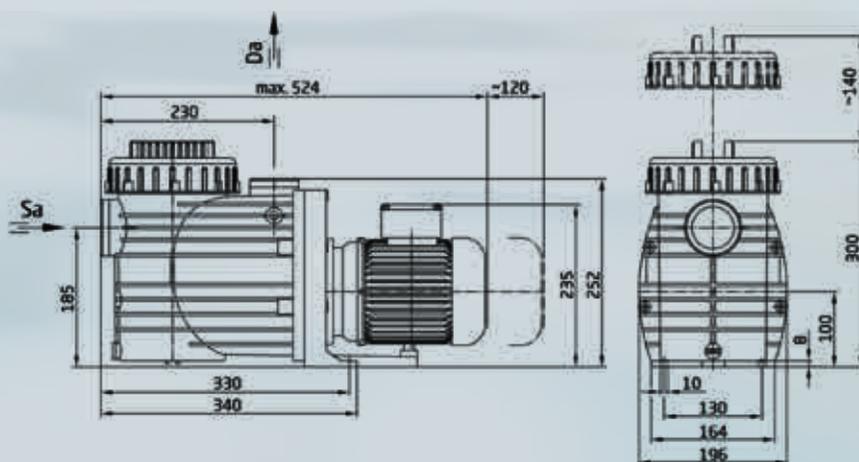
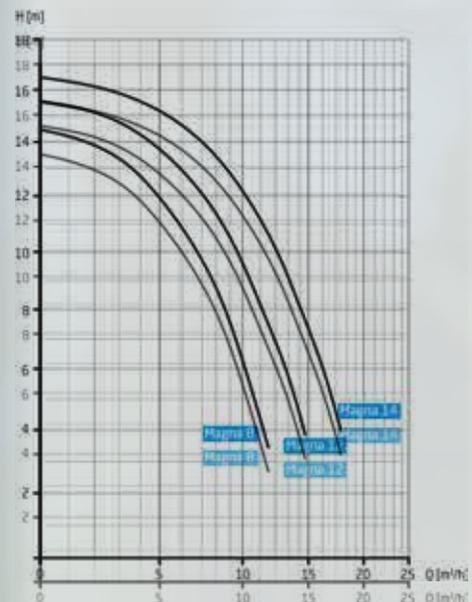
*Pump capacity at 8 m/Ws



SPECK BADU MAGNA

The BADU Magna is a proven classic. Especially in continuous operation, the circulation pump is ready for all installation situations. The pool may contain 30 to 90 m³ of water, making the pump the ideal solution for medium-sized pools or smaller swimming ponds. The swimming pool pump is characterized by its high flexibility and also impresses with its consistently high performance.

- For pools with a volume of up to 90 m³.
- Can be installed above or below the water level, max. 3 m in each case, with integrated fiber trap (capacity approx. 3 l), can be used up to a salt concentration of 0.5 ‰ (corresponds to 5 g/l).
- Bellows mechanical seal mounted on plastic impeller hub, motor or pump shaft does not come into contact with the water in the circuit.
- Electrical isolation.
- Protection class IP55.
- Supplied **without** connection cable.
- Suitable for salt electrolysis: yes (up to 0.5 ‰)
- Suitable for seawater: no

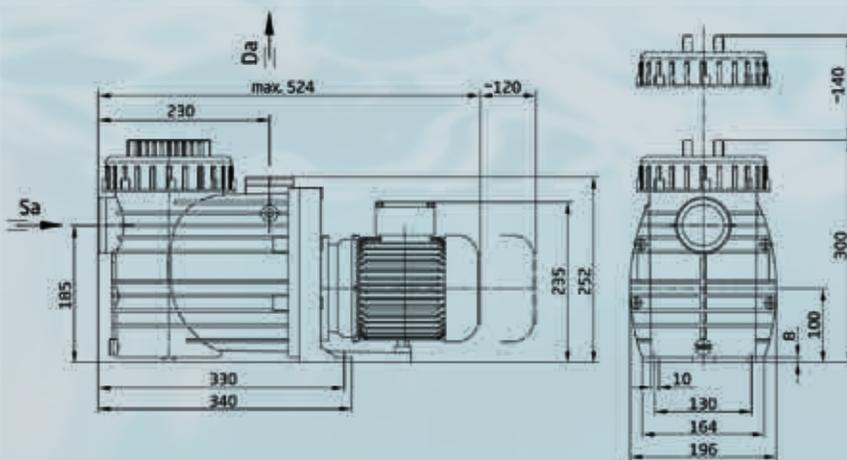
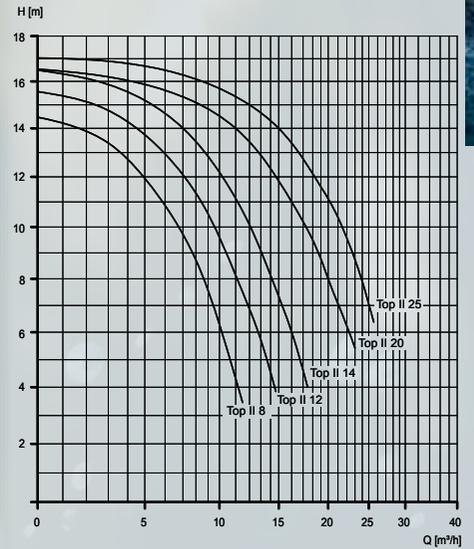


Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Suction side connection	Connection pressure side	Weight kg	Code
BADU Magna 8	230 V/50 Hz	0,50 kW	0,30 kW	8,5 m ³ /h	2" IG	1 ½" IG	9,2	MA08
BADU Magna 12	230 V/50 Hz	0,65 kW	0,45 kW	11 m ³ /h	2" IG	1 ½" IG	9,5	MA12
BADU Magna 14	230 V/50 Hz	0,98 kW	0,65 kW	14 m ³ /h	2" IG	1 ½" IG	11,6	MA14

SPECK BADU TOP II

The classic BADU swimming pool pump is the ideal solution for medium-sized above-ground pools, in-ground pools or smaller swimming ponds. Thanks to its carefully selected materials and low-maintenance design, the BADU Top II is a proven endurance runner. Thanks to its good suction capacity, it is also possible to connect a floor cleaner upstream of the system at any time. Thanks to its high flexibility and tested safety, this reliable pump series stands for exceptional durability.

- For pools with a volume of up to 145 m³.
- Can be installed above or below the water level, max. 3 m in each case, with integrated fiber trap (capacity approx. 3 l), can be used up to a salt concentration of 0.5 % (corresponds to 5 g/l).
- Bellows mechanical seal mounted on plastic impeller hub.
- Motor or pump shaft does not come into contact with the water in the circuit - Electrical isolation.
- **Includes** 3.5 m connection cable.
- Protection class IPX4.
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no



Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Connection Suction side	Connection pressure side	Weight kg	Code
BADU Top II-8	230 V/50 Hz	0,50 kW	0,30 kW	8,5 m ³ /h	2" IG	1 ½" IG	9,2	BT08
BADU Top II-12	230 V/50 Hz	0,65 kW	0,45 kW	11 m ³ /h	2" IG	1 ½" IG	9,5	BT12
BADU Top II-14	230 V/50 Hz	0,97 kW	0,65 kW	14 m ³ /h	2" IG	1 ½" IG	11,6	BT14
BADU Top II-20	230 V/50 Hz	1,37 kW	1,05 kW	20 m ³ /h	2" IG	1 ½" IG	17,0	BT20
BADU Top II-25	230 V/50 Hz	1,70 kW	1,30 kW	24 m ³ /h	2" IG	1 ½" IG	19,8	BT25

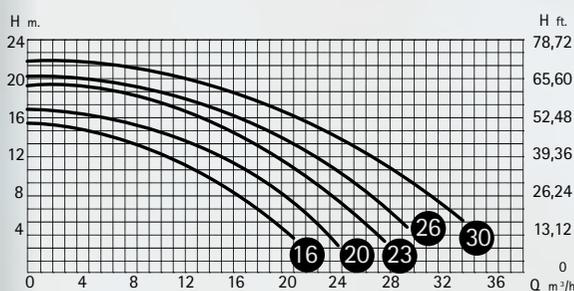
*Pump capacity at 8 m/Ws



MIDA.GAMMA

MIDAS EXCLUSIVE

- For max. 180 m³ basins.
- Circulation of the swimming pool water through a filter system.
- Installation up to 3 m above or below the water level.
- Single-stage centrifugal pump with integrated pre-filter.
- Use in salt electrolysis: on request.
- Electric self-priming pump for swimming pools with large pre-filter, which together with its excellent hydraulic performance,
- The motor or pump shaft does not come into contact with the water in the circuit.
- Includes standard key for effortless opening of the pre-filter cover.
- Protection class IP55.
- Delivery **includes** 1.4 m connection cable.
- Salt concentration up to 0.5 %.
- Suitable for seawater: no



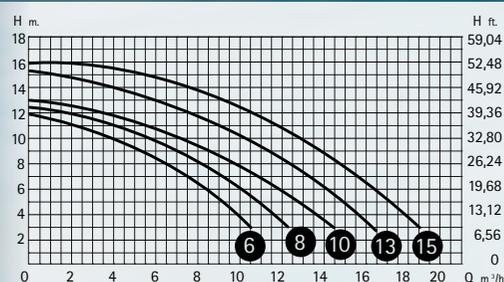
Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Connections (suction and pressure side)	weight kg	Code
MIDA.Gamma 16	230 V/50 Hz	1,11 kW	0,55 kW	15,7 m³/h	63 mm/2" IG	11,9	22760
MIDA.Gamma 20	230 V/50 Hz	1,30 kW	0,75 kW	19,7 m³/h	63 mm/2" IG	13,1	22761
MIDA.Gamma 23	230 V/50 Hz	1,70 kW	1,10 kW	23,0 m³/h	63 mm/2" IG	15,5	22762
MIDA.Gamma 26	230 V/50 Hz	2,10 kW	1,50 kW	26,0 m³/h	63 mm/2" IG	17,1	22763
MIDA.Gamma 30	230 V/50 Hz	2,83 kW	2,20 kW	30,0 m³/h	63 mm/2" IG	21,0	22764

*Pump capacity at 8 m/Ws

MIDA.ALPHA

MIDAS EXCLUSIVE

- For max. 90 m³ pools.
- Circulation of the swimming pool water through a filter system.
- Single-stage centrifugal pump with integrated pre-filter.
- Use in salt electrolysis: on request.
- Electric self-priming pump for swimming pools with a large pre-filter which, together with its excellent hydraulic performance, results in a very large filter capacity.
- Motor or pump shaft does not come into contact with the water in the circuit
- Protection class IP55.
- Delivery **includes** 1.5 m connection cable.
- Salt concentration up to 0.5 %.
- Suitable for seawater: no



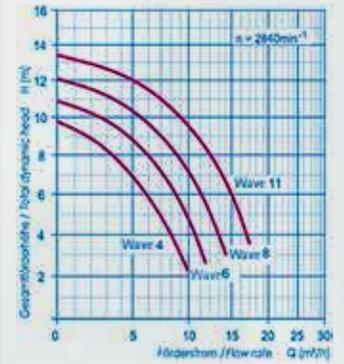
Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Connections (suction and pressure side)	Weight kg	Code
MIDA.Alpha 6	230 V/50 Hz	0,29 kW	0,18 kW	6,0 m³/h	50 mm/1 ½" IG	10	22750
MIDA.Alpha 8	230 V/50 Hz	0,38 kW	0,25 kW	8,0 m³/h	50 mm/1 ½" IG	10	22751
MIDA.Alpha 10	230 V/50 Hz	0,57 kW	0,37 kW	10,0 m³/h	50 mm/1 ½" IG	10	22752
MIDA.Alpha 13	230 V/50 Hz	0,80 kW	0,55 kW	12,5 m³/h	50 mm/1 ½" IG	11	22753
MIDA.Alpha 15	230 V/50 Hz	1,06 kW	0,75 kW	15,3 m³/h	50 mm/1 ½" IG	11	22754

*Pump capacity at 8 m/Ws

MIDA.WAVE

MIDAS EXCLUSIVE

- For pools with a volume of up to 65 m³.
- Self-priming plastic pool pump for circulating swimming pool water with integrated fiber catcher (capacity approx. 0.5 l).
- Hose connection with NW 38/32 mm grommet and 50 mm collar bushing
- Adhesive connection, 230 V, corrosion-resistant to swimming pool water and the chemicals supplied,
- Fast self-priming ensures problem-free start-up of the filter system and good floor suction.
- Can be installed max. 2.0 m above the water level or max. 3 m below the water level.
- Block pump with integrated fiber catcher.
- Bellows mechanical seal mounted on plastic impeller hub.
- The motor or pump shaft does not come into contact with the swimming pool water.
- Protection class IPX5.
- Delivery **includes** 3.5 m connection cable.
- Suitable for salt electrolysis: yes (up to 0.5 %)
- Suitable for seawater: no



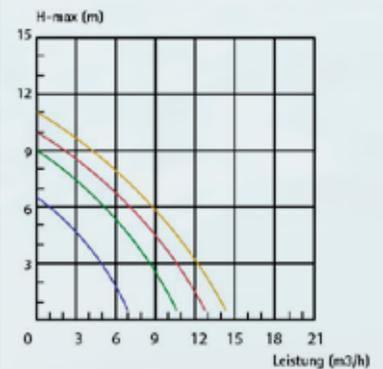
Version	Voltage	Power consumption P1	Power output P2	Pump capacity*	Connections (suction side and pressure side)	Weight kg	Code
MIDA.Wave 4	230 V / 50 Hz	0,35 kW	0,18 kW	4 m ³ /h	Optionally 50 mm Adhesive or 32/38 mm hose connection	6,4	22700
MIDA.Wave 6	230 V / 50 Hz	0,45 kW	0,30 kW	6 m ³ /h	Optionally 50 mm Adhesive or 32/38 mm hose connection	6,8	22701
MIDA.Wave 8	230 V / 50 Hz	0,60 kW	0,40 kW	8 m ³ /h	Optionally 50 mm Adhesive or 32/38 mm hose connection	7,8	22702
MIDA.Wave 11	230 V / 50 Hz	0,69 kW	0,5 kW	11 m ³ /h	Optionally 50 mm Adhesive or 32/38 mm hose connection	8,8	22703

*Pump capacity at 8 m/Ws

MIDA.POMBI

MIDAS EXCLUSIVE

- For pools with a volume of up to 40 m³.
- Made of plastic, with integrated pre-filter, for circulating swimming pool water.
- Delivery **includes** 1.20 m connection cable.
- Protection class IPX4.
- Suitable for salt electrolysis: yes (up to 0.4 %)
- Suitable for seawater: no
- Protection class IP54.



#22740 #22738
#22739 #22737

Version	Voltage	Power consumption P1	Power output P2	Pump capacity max.	Connections (suction side and pressure side)	Weight kg	Code
MIDA.Pombi 4	230 V / 50 Hz	0,29 kW	0,20 kW	7 m ³ /h	1½" female thread on both sides with hose nozzles 32/38 mm	5,9	22737
MIDA.Pombi 6	230 V / 50 Hz	0,41 kW	0,30 kW	11 m ³ /h	1½" female thread on both sides with hose nozzles 32/38 mm	9,0	22738
MIDA.Pombi 8	230 V / 50 Hz	0,49 kW	0,35 kW	13 m ³ /h	1½" female thread on both sides with hose nozzles 32/38 mm	9,9	22739
MIDA.Pombi 10	230 V / 50 Hz	0,86 kW	0,60 kW	14,5 m ³ /h	1½" female thread on both sides with hose nozzles 32/38 mm	10,9	22740



COUNTER-CURRENT SWIMMING SYSTEMS

SPECK BADU JET TURBO PRO & TURBO PRO SALT Innovation, performance and elegant design combined.



The premium counter-current swimming system BADU JET Turbo Pro offers you all the advantages of the BADU JET Turbo and has the power for all those who want even more performance for their training at competition level. Developed for demanding swimmers, the BADU JET Turbo Pro is your ideal training partner and challenges even professional athletes.

Consisting of 1 x pre-assembly kit and 1 x preassembly kit of your choice.

For wall installation in all pool designs, for prefabricated pools up to a wall thickness of 7 mm, except round pools. For prefabricated pools with a wall thickness of 8-17 mm, the additional kit #1203-ZK (see catalog page 75) is required.

For performance-oriented professional workouts, de-voltage, rehab training, fitness or recreational fun.

A flush-mounted installation housing in the pool uses innovative propeller technology to draw water in via the cover and return it to the pool with a powerful jet. The system is driven by an efficient, fanless, fully encapsulated permanent magnet motor. The power is regulated and switched on and off using the integrated piezo buttons or a remote control.



- ABS installation housing
- ABS nozzle housing
- ABS/stainless steel panels V4A/AISI 316*
- Intermediate flange PPE
- Plastic drive unit
- Plain bearing SiC/SiC
- Stainless steel screws V4A/AISI 316*

*max. 400 mg/l chloride content, 0.1 % salt concentration

SPECK BADU JET TURBO PRO-VORMONTAGESATZ for Design 1*, 2* and Design Salt

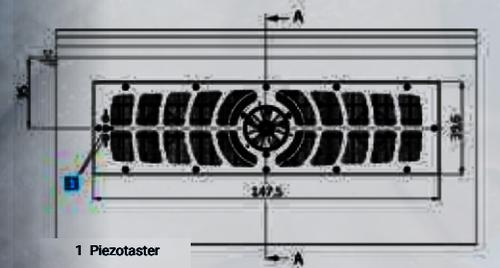
Scope of delivery

- ABS plastic installation housing
- Intake orifice
- Front panels ABS/stainless steel V4A/AISI 316* Design 1 or Design 2
- Drive unit
- Nozzle unit
- Piezo pushbutton
- Seals
- Stainless steel screws V4A/AISI 316*
- Intermediate flange PPE
- Plain bearing SiC/SiC

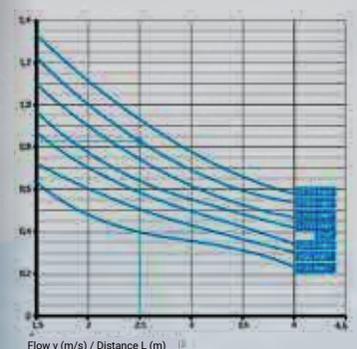
Design 1



Design 2



Version	Code
BADU JET Turbo Pro Pre-assembly kit, Design 1	1203-T1
BADU JET Turbo Pro Pre-assembly kit, Design 2	1203-T2



*Not suitable for salt electrolysis

SALZWATER VERSION

The piezo push-button and the screws are also corrosion-resistant in the saltwater version and made of high-quality **V5A stainless steel**.



Design Salt

Version	Code
BADU JET Turbo Pro Salt Pre-assembly kit, Design Salt	1203-T3

Badu Jet technical shaft #1206 available on request



ACTUATOR SET 3 N~ COMPLETE MOUNTING SET

Scope of delivery

- Motor unit* (sealless magnetic coupling)
- Frequency inverter
- Switch box
- Waterproof remote control
- Screws stainless steel V4A/AISI 316
- Shielded connection cable, 10 or 25m (see below)

Technical data

at 50/60 Hz BADU JET Turbo Pro frequency converter

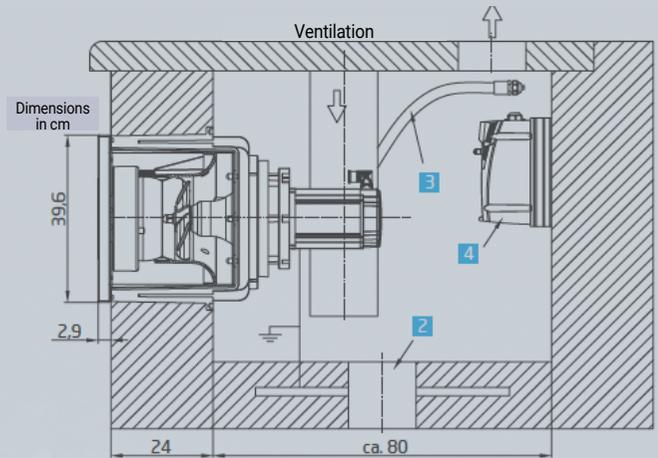
- Performance 4,00 kW
- NetzVoltage 380-480 V
- Net weight 6,00 kg

Technical data

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 velocity 1,80-4,10 m/s
- Nozzle can be swiveled on all sides ± 5 Grad
- Net weight 51,50 kg

Non-binding installation diagram



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

Version	Voltage	Power output P2	Cable length	Code
BADU JET Turbo Pro Finished assembly kit	400 V	3,00 kW	10 m	1203-TA
BADU JET Turbo Pro Finished assembly kit	400 V	3,00 kW	25 m	1203-TA2

*max. 0.5% salt concentration



ADDITIONAL KIT

Version	Code
Additional kit for prefabricated basins with wall thickness 8-17 mm	1203-ZK

For pool wall thicknesses from 8 mm on request.

When ordering a complete system, please state the Version number of the standard installation kit and drive kit.



SPECK BADU JET TURBO LIGHT

NEW

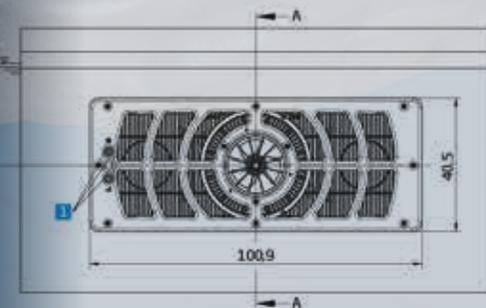
The entry into the turbo class. Complete system with max. 200 m³/h with only 1.80 kW power consumption.



Gemäß Garantiebedingungen

Efficient permanent magnet motor with mechanical seal with integrated frequency converter and 3 stages (125-200 m³). ABS white cover - system is not suitable for salt electrolysis ABS installation housing, nozzle unit and cover with stainless steel screws.

Mechanical seal: Carbon/ceramic/NBR
Flow rate: 125-200 m³/h bei 230 V / 1~
Power consumption P1: 0,09 – 1,80 kW,
Power output P2: 0,05 – 1,40 kW
Rated current: 0,65 – 7,80 A
 1 Nozzle 172 mm, +/-5° pivotable
 Net weight: 43,5 kg



Version	Code
BADU JET Turbo Light	1205

Badu Jet technical shaft
 #1206 available on request



SPECK BADU JET TURBO & TURBO SALT

Innovation, performance and elegant design combined.



According to warranty conditions

The premium counter-current swimming system BADU JET Turbo combines innovative technology with elegant design in the proven BADU quality "Made in Germany". More compact than the BADU JET Turbo Pro, the BADU JET Turbo is perfect for recreational and everyday swimmers. But it is not only a design highlight, it also shines in terms of safety and is certified with the GS seal* from TÜV. The BADU Jet Turbo is an upgrade for any pool and offers an endless swimming experience without the need to turn. For prefabricated pools with a wall thickness of 8-17 mm, the additional kit #1203-ZK (see catalog page 77) is required.



- ABS installation housing
- Drive unit PPE/PP/stainless steel
- Nozzle housing ABS
- Plain bearing SiC/SiC
- ABS/stainless steel covers
- Stainless steel screws
- Intermediate flange PPE

INNOVATIVE

The flow-optimized and efficient propeller technology creates an even, soft flow pattern and thus enables a particularly natural swimming experience that is similar to a real open water feeling.

LOW MAINTENANCE

The BADU JET Turbo is driven by an efficient permanent magnet motor. Power is transmitted to the propeller without contact via a magnetic coupling. Without a continuous drive shaft and dynamic sealing, the design is particularly low-wear. And it is particularly easy to maintain, as the drive unit can be easily removed at any time without having to lower the pool water.

SAFE

But the BADU JET Turbo is not only a real highlight in terms of design, it also shines in terms of safety: designed in compliance with the relevant safety standards (DIN EN 16582-1 & DIN EN 16713-2) and certified with the GS seal* by TÜV, it guarantees safe swimming fun for the whole family. In addition, all electrical components are hermetically separated from the pool water so that no voltage enters the pool.

AESTHETIC

On the pool side, covers made of high-quality polished stainless steel are available in two different designs that blend harmoniously into exclusively designed pool facilities without detracting from the pool's aesthetics.



SPECK BADU TURBO STANDARD-VORMONTAGESATZ

FOR DESIGN 1, DESIGN 2 & DESIGN SALT

Scope of delivery

- Plastic installation housing
- Clamping ring
- Suction grille
- Stainless steel panel design 1*, Design 2* or Design Salt
- Propeller unit
- Nozzle unit
- Piezo pushbutton
- Seals
- Screws



Design 1

*Not suitable for salt electrolysis

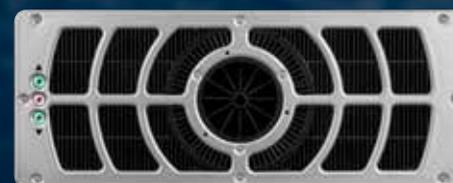


Design 2

*Not suitable for salt electrolysis

SALTWATER VERSION

The piezo buttons and screws in the salt water version are also corrosion-resistant and made of high-quality V5A stainless steel.

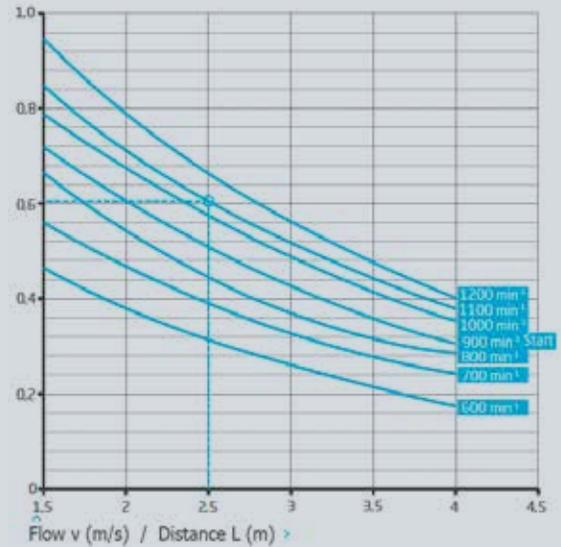
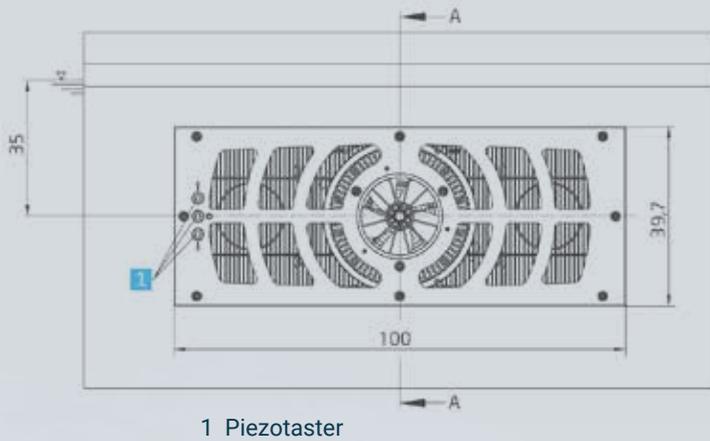


Design Salt

Badu Jet technical shaft #1206 available on request

Version	Code
BADU JET Turbo Pre-assembly kit, Design 1	1204-T1
BADU JET Turbo Pre-assembly kit, Design 2	1204-T2
BADU JET Turbo Salt Pre-assembly kit, Design Salt	1204-T3

Version#1204-TA1 or #1204-TA2 is mandatory.



ACTUATOR SET 3 N~ COMPLETE MOUNTING SET

Scope of delivery

- Motor unit* (sealless magnetic coupling)
- Frequency inverter
- Switch box
- Remote control
- Screws
- Motor cable, shielded, 10m or 25m

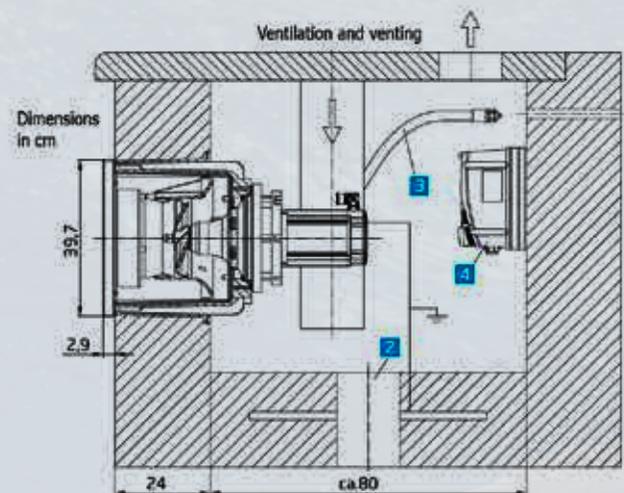
Technical data

- at 50/60 Hz BADU JET Turbo Pro drive unit
- Flow rate 125-245 m³/h
 - Power consumption P1/ output P2 1,90/1,50 kW
 - Number of nozzles 1 (Ø 172 mm)
 - Outflow velocity 1,50-3,00 m/s
 - Nozzle can be swiveled on all sides ± 5 Grad
 - Net weight 43,50 kg

Technical data

- Net weight at 50/60 Hz BADU JET Turbo frequency converter
- Performance 1,50 kW
 - Voltage 200-240 V
 - Net weight 4,10 kg

Non-binding installation diagram



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

Version	Voltage	Power output P2	Cable length	Code
BADU JET Turbo Finished assembly kit	200 - 240 V	1,50 kW	25 m	1204-TA1
BADU JET Turbo Finished assembly kit	200 - 240 V	1,50 kW	10 m	1204-TA

*max. 0.5% salt concentration

ADDITIONAL KIT

Version	Code
Additional kit for prefabricated pools with wall thickness 8-17 mm	1203-ZK

For pool wall thicknesses from 8 mm on request.

When ordering a complete system, please state the Version number of the standard mounting kit **and** drive kit.

*max. 0.5% salt concentration



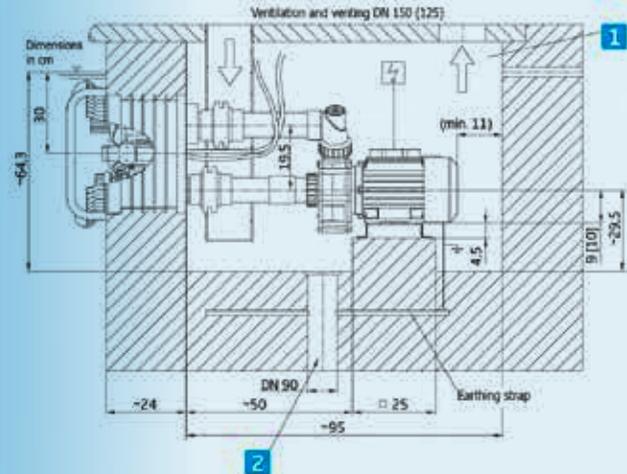
SPECK BADU JET PRIMAVERA

INNOVATION, PERFORMANCE AND ELEGANT DESIGN COMBINED

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



Non-binding installation diagram



1 Shaft width min. 70 cm

2 Floor drain

- Built-in housing made of ABS
- Nozzle housing made of ABS
- Inner parts made of PP/PC/ASA
- Suction/pressure line made of PVC
- Gate valves and fittings made of PVC
- Cover/handle made of stainless steel V4A/AISI 316*
- **Including** waterproof remote control

A powerful BADU pump connected via a suction and pressure line draws in water through a plastic installation and nozzle housing installed flush in the pool and returns it to the pool with a powerful jet via two adjustable nozzles (can be swiveled through 60° on all sides).

A large number of openings in the intake screen ensure an extremely low intake flow. The eye-catcher of this system is a high-quality stainless steel panel, which impresses with its flowing and homogeneous design. A built-in LED light creates a pleasant ambience.

Technical data at 50 Hz	21-81/33 G 29° *	21-81/34 G 29° *
Flow rate of the pump (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
Outlet pressure at the nozzles (bar)	1,00	1,00
Outflow velocity centered 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
 33G: Suction/pressure connection d 90 mm
 29°: Angled discharge nozzle (indication of the angular position)

Version	Voltage	Power output P2	Code
Additional KIT for BADU JET Primavera for tiled basins			1201-P-KIT
Winter plate KIT for BADU JET Primavera for sealing & closing the installation part			1201-PW
BADU JET Primavera pre-assembly kit			BJ-PV01
BADU JET Primavera with white LED, prefabricated mounting kit	400 V	3,00 kW	1201-PFM3
BADU JET Primavera with multicolor LED RGB, prefabricated mounting kit	400 V	3,00 kW	1201-PFM4
BADU JET Primavera with white LED, prefabricated mounting kit	230 V	3,00 kW	1201-PFM1
BADU JET Primavera with multicolor LED RGB, prefabricated mounting kit	230 V	3,00 kW	1201-PFM2
BADU JET Primavera with white LED, prefabricated mounting kit	400 V	4,0 kW	1201-PFM5
BADU JET Primavera with multicolor LED RGB, prefabricated mounting kit	400 V	4,00 kW	1201-PFM6

SPECK BADU JET PRIMAVERA AK

INNOVATION, PERFORMANCE AND ELEGANT DESIGN COMBINED

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

A powerful BADU pump connected via a suction and pressure line draws in water through a plastic installation and nozzle housing installed flush in the pool and returns it to the pool with a powerful jet via two adjustable nozzles that can be swiveled through 60° on all sides.



A large number of openings in the intake orifice ensure an extremely low intake flow.



With LED lighting

- Built-in housing made of ABS
- Nozzle housing made of ABS
- Inner parts made of PP/PC/ASA
- Suction/pressure line made of PVC
- Gate valves and fittings made of PVC
- **Including** waterproof remote control

Technical data at 50 Hz	21-81/33 G 29° *	21-81/34 G 29° *
Flow rate of the pump (m ³ /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
Outlet pressure at the nozzles (bar)	1,00	1,00
Outflow velocity centered 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

**max. salt concentration 2.0 %

* 21-81: Drive pump Badu 21-81
33G: Suction/pressure connection d 90 mm
29°: Angled discharge nozzle
(indication of the angular position)

Ausführung	Voltage	Power output P2	Code
BADU JET Primavera Pre-assembly kit			BJ-PV01
BADU JET Primavera AK with white LED, prefabricated mounting kit	230 V	3,00 kW	1201-PFM7
BADU JET Primavera AK with white LED, prefabricated mounting kit	400 V	4,00 kW	1201-PFM8



SPECK BADU JET SMART

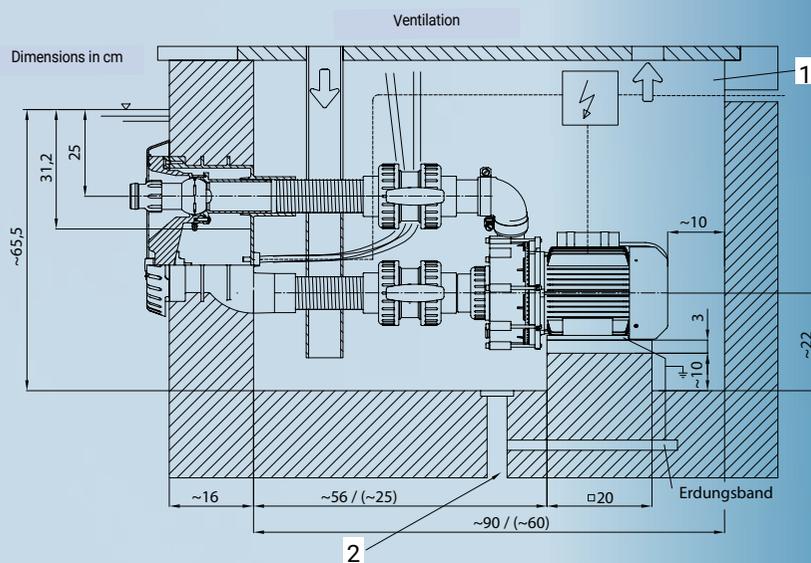
EXERCISE AND FUN IN THE WATER!

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 air bubble bath, for underwater massage according to medical advice. Swimming is possible without turning, even in small pools. A powerful BADU pump connected via a suction and pressure line draws in water through a flush-mounted plastic installation and nozzle housing in the pool and returns it to the pool with a powerful jet via an adjustable nozzle that can be swiveled through 60° on all sides. A large number of openings around the nozzle housing ensure an extremely low suction flow. The pneumatic on/off switch and the control for the tingling air bubble bath are located in the nozzle housing.

Note: max. salt concentration 0.5 %



Non-binding installation diagram



- 1 Shaft width min. 70 cm
- 2 Floor drain

- Built-in housing made of ABS
- Nozzle housing made of ABS
- Inner parts made of ABS/stainless steel
- Suction/pressure line made of PVC
- PVC ball valves and fittings

Optional: With colored cover in black, light grey, light blue or cream

Technical data at 50 Hz	21-50/44 GT 27° *	21-50/43 GT 27° *
Flow rate of the pump (m3/h)	45	40
Voltage	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 centered 2 m in front of the nozzles (m/s)	1,00	1,00
Massage pressure (bar) max.	1,70	1,70
Nozzles can be swiveled on all sides (degrees)	60	60
Net weight (kg)	24	26

* 21-81: Drive pump Badu 21-81
 33G: Suction/pressure connection d 90 mm
 29°: Angled discharge nozzle
 (indication of the angular position)

Version	Voltage	Power output P2	Code
BADU JET Smart Pre-assembly kit			1200-V
BADU JET Smart Pre-assembly kit	400 V	2,20 kW	1200-SK400
BADU JET Smart Pre-assembly kit	230 V	1,60 kW	1200-SK

*max. 0.5% salt concentration

ACCESSORIES

Version	Code
Ball valve kit	1201-W-KH

NADORSELF COUNTER-CURRENT SWIMMING SYSTEM

SELF-PRIMING PUMP FOR INSTALLATION ABOVE THE WATER LEVEL



The compact centrifugal pump with asynchronous motor impresses with its high flow rate and transforms the pool into a leisure and sports area. The nozzle is directionally adjustable and the air admixture and outlet pressure can also be regulated. The connection of the pre-assembly kit is 63 mm inside and 75 mm outside. The orifice diameter is 424 mm and the mounting on the pool wall is 70 mm. Suitable for all pool versions, a minimum diameter of 3.5 m is required for round pools.

The complete system consists of:

- Self-priming pump 230 V or 400 V
- Switch box 230 V or 400 V
- Pre-assembly kit, made of plastic including flange kit, front panel, pneumatic switch and non-return valve, 2 x ball valve 63 mm, 2 x transition sleeve 2 ½" x 75 mm, and 2 x reduction 75 x 63 mm

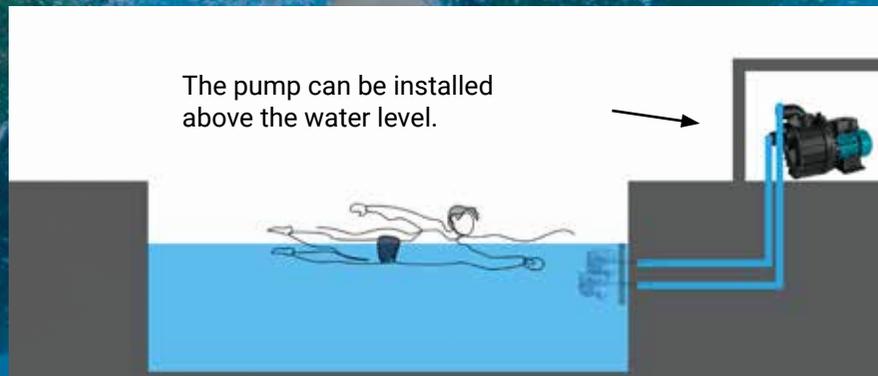
SPECIAL ADVANTAGES:

- ✓ Plastic version, especially for salt electrolysis up to 7 g/l (0.7%)
- ✓ Self-priming pump for installation above the water level (max. 4 m)
- ✓ No need for a technical shaft



#1203-ND

#1203-NW



The pump can be installed above the water level.



Technical data of the pump	
Connection	2 ½" External thread
Protection class	IP 55
Insulation class	F
Material	Plastic (Thermopolymer)
Mechanical seal material	Graphite / Aluminum oxide
Material motor shaft	Stainless steel AISI 431
Motor housing material	Aluminum
Material seals	NBR / EPDM
Noise level	max. 85 dB



Non-return sleeve



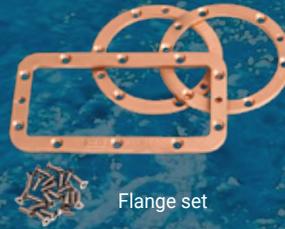
Version	Voltage	Power	Power output P2	Code
# 1203-NW – Gegenstromanlage Nadorsel	230 V	72 m³/h	3,0 kW	1203-NW
# 1203-ND – Gegenstromanlage Nadorsel	400 V	79 m³/h	3,8 kW	1203-ND

*max. 0,5% Salzkonzentration



HUGO LAHME EVOLUTION

FLAT, DYNAMIC, ELEGANT!



Flange set



- Evolution connection kit
- **Including** installation kit
- 2 directionally adjustable single-jet nozzles
- 2 separate suction inlets Ø 280 mm and fitting made of V4A/AISI 316L^x
- Pump capacity 63 m³/h at 1.1 bar
- 2.6 kW pump made of gunmetal **or** bronze (power consumption: 3.4 kW) 400 V, DS, 50 Hz/5.8 A and timer
- Flange set: Bronze
- Installation kit: gunmetal or bronze



COMPLETE SYSTEMS

Version	Suitable for	Code
Gunmetal*	Foil basin (including flange set)	988-F
Gunmetal*	Prefabricated basin	988-FE
Bronze (Gbz10)**	Foil basin (including flange set)	988-FB
Bronze (Gbz10)**	Prefabricated basin	988-FE2B

*Not suitable for salt electrolysis **max. salt concentration 6 %

* max. 750 mg/l chloride content for V4A stainless steel/AISI 316

INDIVIDUAL COMPONENTS

Vormontagesatz

Version	Suitable for	Code
Pre-assembly kit gunmetal*	Concrete basin	988-2
Bronze pre-assembly kit**	Concrete basin	988-2B
Pre-assembly kit gunmetal*	Prefabricated basin	988-FE2
Bronze pre-assembly kit**	Prefabricated basin	988-FE2B

*not suitable for salt electrolysis **max. salt concentration 6 %

Flange set

Version	Suitable for	Code
Flange set bronze**	Foil basin	988-3

*not suitable for salt electrolysis **max. salt concentration 6 %

Pre-assembly kit

- **Including** pump 2.6 kW pump made of gunmetal or bronze
- **Including** switch box
- **Including** cover

Version	Code
Gunmetal finish mounting kit*	988-1
Bronze ready-to-install kit**	988-1B

*not suitable for salt electrolysis **max. salt concentration 6 %

ACCESSORIES

Version	Code
Pump bracket, for wall mounting	985-7

03



DOSING SYSTEMS



There are also experiences and moments in everyday life that we perceive as luxurious. For us, smart luxury represents a variety of aspects: As MIDAS, we value innovative technologies and products of outstanding quality and exclusivity. These include easy-to-use measuring and control units such as MIDA.Sin Profi with color touch displays, salt electrolysis/hydrolysis and a variety of expansion modules.

In addition to generating its own chlorine and precise dosing, the modern smart control unit enables the control of various functions such as pool heating, filtration, pump operation and lighting. These key functions ensure clean and clear water in your pool. The new membrane electrolyzers meet the continuing demand for professional and reliable water treatment. The trend towards pool managers using salt electrolysis or oxygen-based disinfection systems has established itself.

OVERVIEW



OVERVIEW + MEASURING & CONTROL UNITS

- NEW P. 88 Dosing system MIDA.Sin Profi 
- P. 90 Dosing system MIDA.Sin Pro Oxygen
- P. 92 Dosing system MIDA.Sin Pro
- P. 94 Dosing system MIDA.Sin
- NEW P. 96 pH dosing system and flocculation dosing station

SALT ELECTROLYSIS + OPTIONAL ACCESSORIES

- P. 98 Salt electrolysis system MIDA.Sin Salt
- P. 100 Salt electrolysis system MIDA.Sin Salt Easy
- P. 102 Smart LAN pool control MIDA.Sin Pool
- P. 104 Optional accessories & spare parts
- P. 112 MIDA.Station
- P. 114 MIDA.Oxi
- P. 116 Optional accessories & spare parts
- P. 120 MIDA.Low Salt
- P. 122 MIDA.Salt
- P. 124 Poolsalt & puffer solutions
- P. 125 Water care products
- P. 127 UV-C sterilization technology



QUICK OVERVIEW OF MEASURING AND CONTROL UNITS

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



COMPARISON TABLE

NEW

	MIDA.Sin Salt		MIDA.Sin Salt Easy	MIDA.Sin Pro Oxygen	MIDA.Sin Profi	MIDA.Sin Pro		MIDA.Sin		Mida.Sin Pool
	30063	30064	30020-E2	30062	30023	30060	30061	30016	30018	30010-E15
Procedure	Salt electrolysis			chlorine-free	Liquid chlorine					Control system
max. pool size	60/90 m³ *	60/90 m³ *	60/90 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"	5,7"	5,7"	3,5"	3,5"	-
Quantity Peristaltic metering pumps	2	2	-	4	-	4	4	2	2	-
pH measurement	✓	✓	-	✓	✓	✓	✓	✓	✓	-
Redox measurement (mv)	-	✓	-	-	✓	✓	-	✓	-	-
Free chlorine measurement (mg/l)	✓	-	-	-	✓	-	✓	-	✓	-
Salt measurement	✓	✓	✓	-	-	-	-	-	-	-
Measurement Water temperature	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
pH dosage	✓	✓	-	✓	✓	✓	✓	✓	✓	-
Chlorine dosage	-	-	-	-	✓	✓	✓	✓	✓	-
Algicide dosage	✓	✓	-	✓	-	✓	✓	-	-	-
Flocculation dosage	-	-	-	✓	✓	✓	✓	-	-	-
Oxygen dosage	-	-	-	✓	-	(✓)	(✓)	(✓)	(✓)	-
LAN connection	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
Filter control	✓	✓	-	✓	✓	✓	✓	-	-	✓
Backwash (Besgo)	✓	✓	-	✓	✓	✓	✓	-	-	✓
Heating control	✓	✓	-	✓	✓	✓	✓	-	-	✓
Level control	✓	✓	-	✓	✓	✓	✓	-	-	✓
Winter operation	✓	✓	-	✓	-	✓	✓	-	-	✓
Switching function Overflow channel / Floor drain (Besgo)	✓	✓	-	✓	-	✓	✓	-	-	✓

*60 m3 for outdoor pools | 90 m3 for indoor pools



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, protection class IP30
- **Including** pool management system, controls the following components:
 - Filter pump (230 V via a socket attached to the device up to 1.4 kW) and frequency-controlled pumps (Speck, Pentair, Hayward, DAB E.Swim UWE, Aquagem), as well as 400 V via on-site relay
 - Backwash with Besgo bar valve 5-way
 - Heating control (heat pump, heat exchanger, electric heater)
 - Optional solar control (via Besgo bar valve or solar panel)
 - Level control (optional water level probe is required, see catalog page 104)
 - Economy circuit for overflow basins with Besgo 3-way bar valve (channel, basin)
 - Winter operation (optional air temperature thermometer required, see catalog page 107)
 - **NET included:** With LAN connection for remote retrieval of water values (no changes) via browser or app or external touch display (optional). Secure communication takes place without possible interference compared to WiFi connections. The Pool Live app displays the water values in real time, error messages and the fill levels of the tanks. The web application displays all parameters with clear graphics and a detailed history. The data is recorded for 30 days. An external 7" touch display for wall mounting to display the water values, temperature and humidity is optionally available, see catalog page 107.

Dosing Systems
03



ALL ADVANTAGES AT A GLANCE!

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

App view:



Browser view:*



DOSING SYSTEMS

MIDA.SIN PROFI

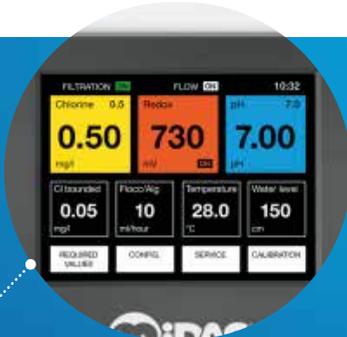
ONE SYSTEM - MANY POSSIBILITIES

MIDA.Sin Profi is a state-of-the-art system, **specially designed for use in the public sector**, where the highest standards of control accuracy and compliance with hygiene standards apply. Equipped with a CLF probe for precise measurement of free chlorine, a redox probe, a pH probe and an optional CLT probe for total chlorine measurement, this device meets all water quality requirements.

It is perfectly suited for use with external dosing pumps. The device automatically regulates the water parameters within a predefined value range. You do not need to activate it manually - it works fully automatically. In addition to regulating the water parameters, filter control is also integrated, including for VS pumps, water level control and heating control.

NEW

EXKLUSIV MIDAS



Intuitive and colorful touch screen display



#30010-E6

The dosing hose pump is absolutely essential when installing the MIDA.Sin Profi. Diaphragm dosing pumps are also available on request for larger pools.

Measurement:

- pH
- free chlorine
- Total chlorine
- REDOX potential
- Temperature
- Water level
- Time

Regulation:

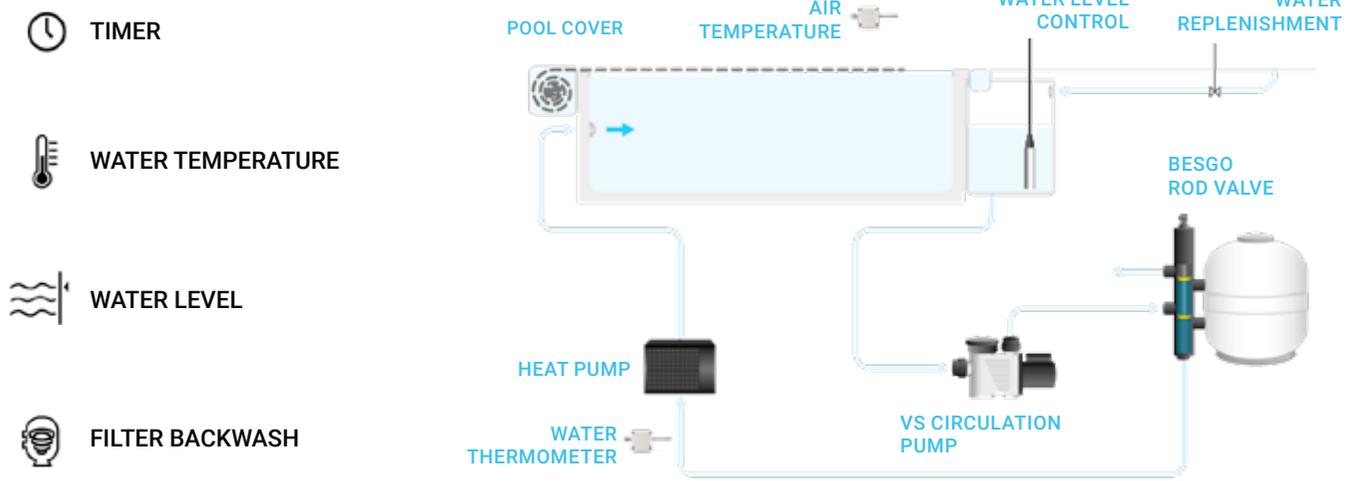
- pH
- Chlorine
- Temperature
- Water level

KEY BENEFITS AT A GLANCE!

- ✓ Modern 5.7" touchscreen display
- ✓ Simple and intuitive operation
- ✓ Multilingual user interface (DE, CZ, GB, RUS, PL)
- ✓ Compact design
- ✓ Very simple installation
- ✓ Advanced safety functions
- ✓ Detection of the flow rate of the measured water
- ✓ LAN included
- ✓ Recording of the measured value



POOL MANAGEMENT SYSTEM



Dosing Systems
03

Aseko Web Services



iPool LIVE App

Monitor your pool from anywhere in the world.

Allows you to retrieve all data for your pool regardless of location. You can activate a warning if the set limit values are exceeded. Communication takes place in real time.



aseko Pool LIVE iPool.aseko.com

For detailed monitoring of pool water parameters.

Clearly structured diagrams enable simple and precise monitoring of the water quality.



Technical data	
max. pool size	250 m ³
Messwerte	pH, free chlorine, total chlorine, REDOX, temperature, water level, time
Regulated values	free chlorine, pH, temperature, level
max. consumption	35 VA
Power supply	230 V/50 Hz
Housing	Stainless steel V2A/AISI 304
Protection class	II
Fuse	T32 mA (2ks) T80 mA
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Protection class	IP50
Weight	5,5 kg

Article	Code
MIDA.Sin Profi+ NET pH/Redox/Chlor	30023
Dosing hose pump 3.6 l/h, 12 V	30010-E6

DOSING SYSTEMS

MIDA.SIN PRO OXYGEN

EXKLUSIV MIDAS

The chlorine-free water treatment with pH and oxygen which, in combination with algaecide and a special flocculant MIDA.Sin Floc+ #C0005 (see catalog page 125), ensures crystal-clear water that is kind to the skin. Particularly suitable for metal and stainless steel components in the pool if liquid chlorine is not required. The system can also be subsequently converted to chlorine dosing via redox or free chlorine.

Additional scope of delivery to the standard (see catalog page 104):

- 20 m measuring and dosing line PE 1/4"/6x4 mm with 4 injection valves 1/4"



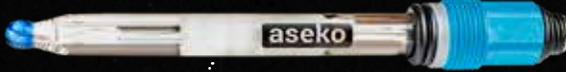
Socket for circulation pump 230V, max 1.4 kW



Intuitive and colorful touch screen display



Side view of the system
Power supply 230 V/50 Hz



Robust and elegant housing made of stainless steel V2A/AISI 304



★ ★ ★
2 YEARS WARRANTY
ON THE PROBE





#30010-E59

COAGULATIONMIXER

Boosts the coagulation and flocculation reactions of Floc+ C and improves filtration performance

iPool LIVE APP

Technical data	MIDA.Sin Pro Oxygen
max. pool size	250 m ³
Display	farbiges 5,7" Touch-Display, 6 Sprachen (D, FR, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	24 VA
Dimensions	430 x 330 x 160 mm
Housing	Stainless steel V2A/AISI 304
Communication	LAN/RS485
Output control	Potential-free relay, max. 1A, max. 230 V (Besgo, solenoid valve, refill, heating relay)
Input	4-20 mA Sensor input
Pump connection	max. 1,4 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 class	IP30
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Sample water pressure	max. 1,5 bar
Weight	6,2 kg



MIDA.SIN PRO



HIGH-QUALITY, EASY-TO-OPERATE DOSING SYSTEM
POOL MANAGEMENT SYSTEM **INCLUDED!**

This liquid chlorine dosing system regulates the pH and chlorine value. The chlorine is regulated via the redox potential (mV) or the free chlorine content (mg/l). In addition, algacide and a special flocculant MIDA.Sin Floc+ #C0005 (see catalog page 125) are dosed for crystal clear water. The system can be switched between redox and free chlorine at any time and can continue to dose (disinfection ml/m³) even if the probe fails.

EXKLUSIV MIDAS



CHLORINE VARIANT



#30060



Additional scope of delivery to the standard (see from catalog page 104):

- Long Life Redox probe or membrane-covered chlorine probe chlorine measuring probe
- 20 m measuring and dosing line PE 1/4"/6x4 mm with 4 injection valves 1/4"



Robust and elegant housing made of stainless steel V2A/AISI 304



Intuitive and colorful touch screen display



Our pool expert Klaus Hofmann talks about the MIDA.Sin Pro!

REDOX VARIANT



#30061



Side view of the system
Power supply 230 V/50 Hz



Side view of the system
Power supply 230 V/50 Hz



★ ★ ★
2 YEARS WARRANTY
ON ASEKO PROBES*

Side view of the system
Power supply 230 V/50 Hz

Technical data	MIDA.Sin Pro
max. pool size	250 m ³
Display	Color 5.7" touch display, 6 languages (D, FR, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	24 VA
Dimensions	430 x 330 x 160 mm
Housing	Stainless steel V2A/AISI 304
Communication	LAN/RS485
Output control	potential-free relay, max. 1A, max. 230 V (Besgo, solenoid valve, refill, heating relay)
Input	4-20 mA sensor input
Max. power consumption with filter pump	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 class	IP30
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Sample water pressure	max. 1,5 bar
Weight	6,7 kg



iPool LIVE APP

Monitor your pool
anywhere in the world.

Article	Code
MIDA.Sin Pro pH/Redox NET including solar function	30060
MIDA.Sin Pro pH/Chlor NET including solar function	30061

*The service life can be affected by water hardness, soiling and temperature, etc.

MIDA.SIN
POOL WATER TREATMENT

EXKLUSIV
MIDAS

Compact measuring, control and dosing system for liquid chlorine with control of the pH value, as well as the chlorine value and dosing pumps. The chlorine value is controlled 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 can continue to dose (disinfection ml/m³) even if the sensor fails. These systems do **not** include a pool management system.

CHLORINE VARIANT



Intuitive and colorful touch screen display



ABS Plastic housing



Advantages:

- User-friendly, intuitive menu navigation via color touch display 3.5"
- Simple installation and retrofitting possible with any existing system
- **Including** flow monitor with pre-filter (safety shut-off if there is no flow)
- High-quality dosing pumps 3.6 l/h with minimal maintenance
- **Including** measurement of the water temperature
- Dosing of pH- or pH+
- The system can be switched between redox and free chlorine at any time and can continue to dose (disinfection ml/m³) even in the event of a probe failure
- High-quality glass probes with a 2-year guarantee*
- Additional safety devices (dosing time delay, overdosing, max. hourly dosing, pH changes that are too fast and max. dosing without feedback from the probe)

REDOX VARIANT

Scope of delivery:

- Measuring and control device
- Long life probes pH and redox or pH and membrane-covered chlorine probe
- Electrical flow monitor **including** pre-filter
- Temperature sensor **including** immersion sleeve
- 15 m Measuring and dosing line PE ¼"/6 x 4 mm with 2 injection valves ¼"
- Reductions 50 mm x ¼" female thread for injection valves and sample water stopcocks 6 x 4 mm
- Suction feet for container removal
- Screws and wall plugs for wall mounting
- Extensive and detailed manual



Intuitive and colorful touch screen display



#30016

NET included: With LAN connection for remote retrieval of water values (no changes) via browser or app or external touch display (optional). Secure communication takes place **without** possible interference compared to WiFi connections. The Pool Live app displays the water values in real time, error messages and the fill levels of the tanks. The web application displays all parameters with clear graphics and a detailed history. The data is recorded for 30 days. An external 7" touch display for wall mounting to display the water values, temperature and humidity is optionally available.

Technical data	MIDA.Sin
max. pool size	250 m ³
Display	Color 3.5" touch display, 6 languages (D, FR, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	14 VA
Dimensions	290 x 240 x 115 mm
Housing	ABS Plastic
Communication	LAN
Fuse	T80 mA
Protection class	II
Protection class	IP50
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Sample water pressure	max. 1 bar
Weight	2,2 kg

Article	Code
MIDA.Sin pH/Redox NET	30016
MIDA.Sin pH/Chlor NET	30018
MIDA.Sin pH/Redox ¹⁾	30015
MIDA.Sin pH/Chlor ¹⁾	30017



iPool LIVE APP

Monitor your pool anywhere in the world.



* The service life can be affected by water hardness, soiling and temperature, etc.

¹⁾ Not a stock item, available on request.



PH DOSING SYSTEM

DESIGN 2024

NEW

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



Article	Code
pH dosing system	30019-T

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

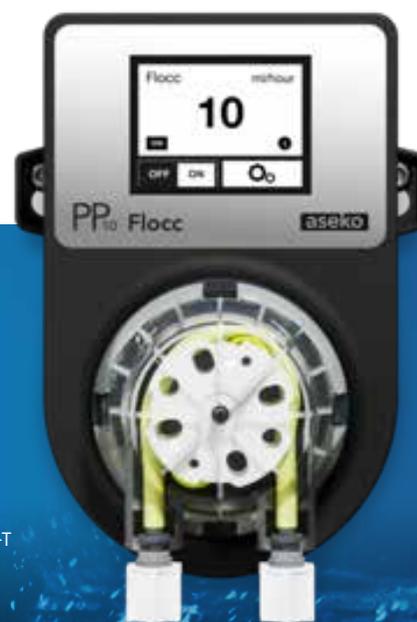


FLOCCULATION DOSING STATION

NEW

Effective coagulation and flocculation can only be achieved by continuous dosing, which makes the smallest particles filterable. This device is designed for dosing MIDA.Sin Floc+ #C0005 (see catalog page 125). However, all other liquid agents can also be dosed in a controlled manner. **Including** color touch display with setting of the dosing quantity, 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 from 1-250 m³, 230 V/50Hz, protection class IP50.

DESIGN 2024



#30013-T

Article	Code
Flocculation dosing station	30013-T

SALT ELECTROLYSIS SYSTEM



MIDA.SIN SALT

SALT WATER TREATMENT & POOL MANAGEMENT

EXKLUSIV MIDAS



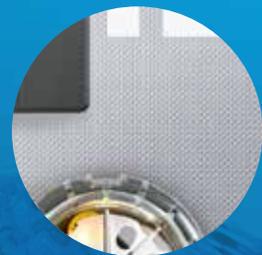
Advanced salt electrolysis system (2-4 g/l salt content) with pH control and chlorine production, which is controlled via the free chlorine content (mg/l) or the redox potential (mV). In addition, algacide can be dosed to support disinfection and prevent algae formation. The system also permanently displays the salt content (kg/m³), not just when it is too low.

The service life of the self-cleaning electrolytic cell is approx. 8,000 operating hours** (vertical or horizontal installation). (vertical or horizontal installation). The rectifier is automatically cooled via the sample water supply to prevent the system from overheating.

REDOX VARIANT



Intuitive and colorful touch screen display

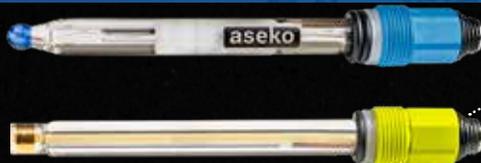


Robust and elegant Stainless steel housing V2A/AISI 304

★ ★ ★
2 YEARS WARRANTY
ON ASEKO PROBES*

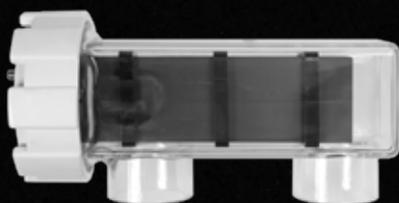


#30063



Additional scope of delivery to the standard (see from catalog page 104):

- Salt electrolyzer with electrolytic cell
- Membrane-covered long-life chlorine probe or long-life redox probe
- Conductivity probe integrated in the flow monitor, for measuring the salt content in kg/m³
- 15 m measuring and dosing line PE ¼"/6 x 4 mm with 2 injection valves ¼"



PLEASE NOTE:

We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components. However, corrosion can be reduced or even avoided if an optional sacrificial anode (see catalog page 110) is installed.

CHLORINE VARIANT

Side view of the system
Power supply 230 V/50 Hzz



Intuitive and colorful touch screen display



#30064



Dosing Systems
03



Socket for circulation pump 230V,
max 1.4 kW

★ ★ ★
2 YEARS WARRANTY
ON ASEKO PROBES*



Technical data	MIDA.Sin Salt
max. pool size outer pool	60 m ³
max. pool size inner pool	90 m ³
Display	Color 5.7" touch display, 6 languages (D, F, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	190 VA
Dimensions	450 x 330 x 190 mm
Housing	Stainless steel V2A/AISI 304
Communication	LAN/RS 485
Output control	Potential-free relay, max. 1A, max. 230 V (Besgo, solenoid valve, heating relay)
Input	4-20 mA sensor input
Chlorine production at 4 % salt content	max. 25 g/h
Operating hours of the electrolytic cell	approx. 8,000 hours
Max. power consumption with filter pump	14 49 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 class	IP30
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1,5 bar
Sample water pressure	max. 1,5 bar
Weight	10 kg



iPool LIVE APP

Monitor your pool
anywhere in the world.

Article	Code
MIDA.Sin Salt pH/Redox NET including solar function	30064
MIDA.Sin Salt pH/Chlor NET including solar function	30063



MIDA.SIN SALT EASY SALT WATER TREATMENT

EXKLUSIV
MIDAS



This system can be used as an extension to MIDA.Sin Salt #30063 and #30064 or as a stand-alone electrolysis system. The extension is controlled via the MIDA.Sin Salt. The maximum pool size can be increased by up to 60 m³ for outdoor pools and 90 m³ for indoor pools. 2-wire connection cable between Mida.Sin Salt and Mida.Sin Salt Easy optionally available (see below). This system can also be installed as a stand-alone, unregulated unit. In this case, the system operates according to the percentage output settings (10-100%), which means that manual control of the chlorine content is necessary.



Including electrolytic cell 25 g/h and flow monitor with pre-filter.
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

Operating temperature:
+5 bis +40°C

Weight:
5,5 kg



Article	Code
MIDA.Sin Salt Easy	30020-E2

PLEASE NOTE:

We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components. However, corrosion can be reduced or even avoided if an optional sacrificial anode (see catalog page 110) is installed.



CONNECTION CABLE

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

Article	Code
Connection cable	30020-E7



#30020-E7





MIDA.SIN POOL

SMART LAN POOL CONTROL VIA APP

EXKLUSIV MIDAS



MIDA.Sin Pool is a perfect extension to the MIDA.Sin NET dosing system, which can be connected directly to the control unit to enable intelligent pool control via app (no change of water values possible). **Includes** module for 4 additional relays for further connections, such as roller shutters, attractions, garden lighting, etc. Pre-installed in the control box, simple installation on the wall. **Without** connection accessories, e.g. thermometer, level probe, Besgo valves, solenoid valve, circulation pump, etc. Connection with iPool Live possible, so that pH and chlorine values are also displayed in the iPool Remote app, clicking on the values switches directly to the iPool Live app. Connection to the network via LAN - Aseko Pool Remote app.

- RCD 16 A / 30 mA
- Circulation pump Circuit breaker 10 A, relay 2.3 kW
- Light / Accessories Circuit breaker 6 A, relay 0.8 kW
- Dimensions:

Height 460 mm

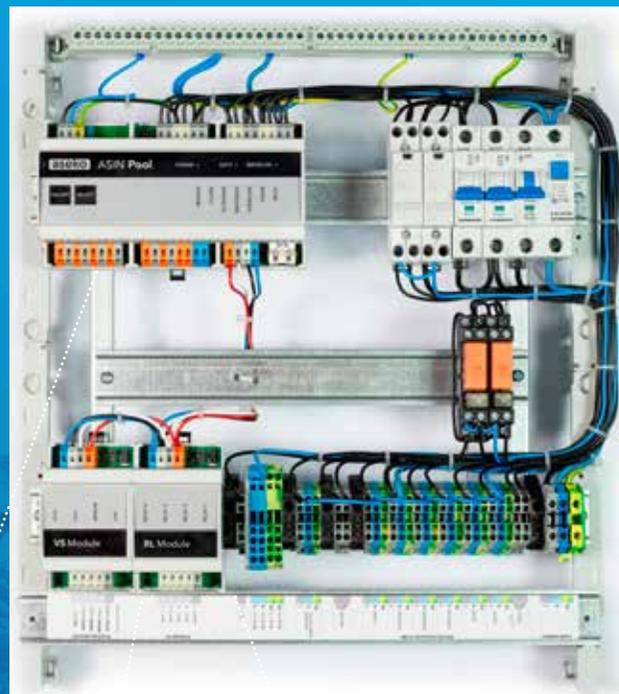
Width 430 mm

Depth 155 mm

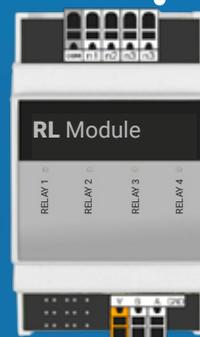
230 V / 50 Hz, Protection class IP50

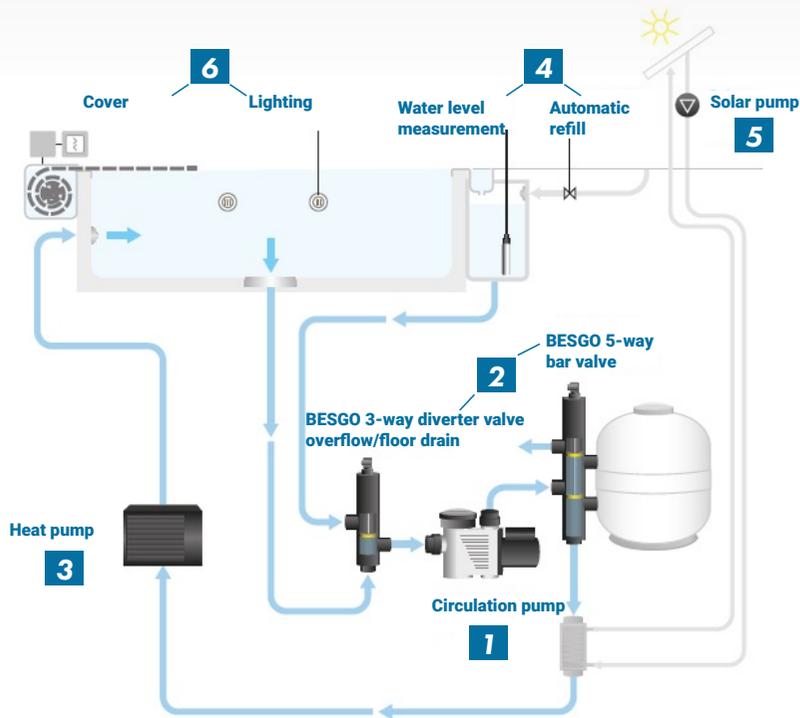


Switch box
Front view



Switch box
Interior view





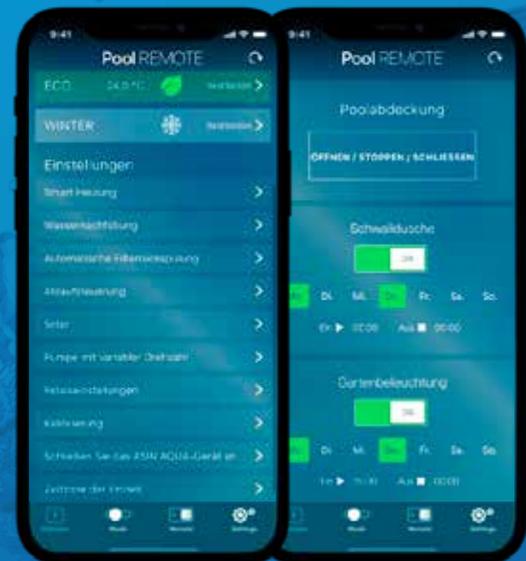
MIDA.SIN POOL - FUNCTIONS

- 1 Filter control via on/off/timer** as well as selection of stages 1,2,3/stop with freely adjustable filter times for VS pumps Speck, DAB, Pentair, Hayward/Kripsol, UWE
- 2 Backwash** The backwash function is controlled by a 5-way Besgo rod valve. If a 3-way Besgo is connected to the floor drain, backwashing takes place via this floor drain to avoid the risk of the circulation pump running dry with Slim Line skimmers.
- 3 Heating control:** There are several ways to control the heating, e.g. (time window, outside temperature and priority switching).
- 4 Water level control** with measurement of 4 water levels and automatic refilling
- 5 Solar** - Activates the circulation and solar pump (max. 1 A) when the set solar temperature is reached
- 6 Lighting or cover** - switches the VS circulation pump to level 1 when the roller shutter is closed



SMARTE POOLSTEUERUNG PER POOL REMOTE APP

Numerous setting options



4 operating modes (Party, Auto, Eco, Winter) can be set individually via filter run times and water temperature

- | | | | |
|--------------|---|---------------|--|
| OFF | Everything STOP
Switch everything off | AUTO | Automatic heating mode
Automatic mode with optional superordinate heating function |
| ON | Nonstop filtration Heating OFF
Filter operation runs continuously, Heating is off | ECO | Heating economy mode
Eco mode with heating function |
| PARTY | Nonstop filtration Heating ON
Filter operation runs continuously, Heating is on | WINTER | Frost protection mode |

Article	Code
MIDA.Sin Pool; height 460 mm, width 430 mm, depth 155 mm	30010-E15



OPTIONAL ACCESSORIES AND SPARE PARTS

FOR ALL SYSTEMS ON PAGE 88 - 99

EXTERNAL 7" TOUCHSCREEN DISPLAY

High-quality display for remote access to water values, water and air temperature and humidity. The circulation pump and backwash can also be started and stopped. Calibration of the water values and air temperature and humidity is also possible. Compatible with all systems **including** LAN connection, connection with cable 4 x 0.5 mm² (not included) via the RS485 connection (max. length 100 m) Dimensions: 253 x 1668 x 39 mm, **including** plugs and screws, not waterproof (IP 40)

Article	Code
Externes Touchscreen-Display	30010-E10



#30010-E10

PRESSURE WATER LEVEL PROBE

This hydrostatic water level meter is compact with strain gauges. Material: Teflon (PTFE)/ceramic. For installation in the splash water tank, roller shutter shaft or vertical empty pipe leading from the pool. 4 measurements: Pump off, make-up on, make-up off, backwash on. The measuring range is specified at the factory between 5 - 200 cm, cable length: 4.0 m, but can be extended up to 100 m.

Article	Code
Pressure water level probe	30010-E12



#30010-E12

LEVEL FLOAT SWITCH

Simple float switch for activating and deactivating the water make-up, also suitable for retrofitting. No update to existing systems is required. Simple installation in the skimmer with mounting bracket possible. Material: Stainless steel V4A/AISI 316

Cable length: 30 cm, but can be extended up to 100 m.

Article	Code
Level float switch	30010-E67



#30010-E67

PROBE SIMULATOR

Simulates the measuring probe and can be connected directly to the measuring cable. The source of errors in the event of incorrect water values can thus be checked quickly.

Can be used for the following probes:

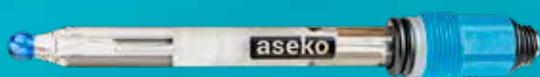
- pH
- Redox
- Free chlorine (CLF)

Article	Code
Probe simulator	30010-E66



#30010-E66

PROBES LONG LIFE



#30010-E1



#30010-E2



#30010-E3



#30020-E9



#30020-E5

For salt electrolysis*



Article	Code
ASEKO pH Long Life quality glass probe*	30010-E1
ASEKO Redox Long Life quality glass probe*	30010-E2
Redox glass probe for salt electrolysis*	30020-E5
ASEKO Redox Gold Long Life quality glass probe for salt electrolysis*	30020-E9
ASEKO Chlorine Long Life Membrane Probe made of titanium, silver and stainless steel*	30010-E3

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

**Warranty only applies to 30010-E1, 30010-E2, 30010-E3 and 30010-E9

Suitable buffer solutions for testing and calibrating can be found on page 124 in the catalog.

TECHNICAL DATA

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
Measuring 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	-	-	-
Cables	-	-	-
Plug	SN6/S7	SN6/S7	SN6/S7

PROBE CABLE

Connection to SN6/S7, 30 cm cable

Article	Code
Probe cable	30010-E41



#30010-E41

**The service life can be affected by water hardness, soiling and temperature, etc. The membrane cap (only for CLF probe #30010-E3) is a wearing part.



STORAGE CONTAINER

Including stand for pH/redox probes for storage/winter storage

Article	Code
Storage container	30010-E49



#30010-E49



KCl SOLUTION

Storage liquid for probes, 50 ml

Article	Code
KCl solution	102030-E17



#102030-E17



MEMBRANE CAP

80 mm, for CLF probe (free chlorine)

Article	Code
Membrane cap	30010-E21



#30010-E21



ELEKTROLYT

for CLF probe (free chlorine)

Article	Code
Electrolyte	30010-E33



#30010-E33



HOLDER AND KEY FOR PROBES

Probe holder connection Tube 6.2 x 1 mm, **including** PG 13.5 screw connection

Article	Code
Key for probes	30010-E39
Probe holder	30010-E35



#30010-E35



#30010-E39



PE SAMPLE WATER AND DOSING LINE

1/4" x 6,35 mm

Article	Code
PE sample water and dosing line 10 m	30010-E5
PE sample water and dosing line 150 m	30010-E5-150



#30010-E5

SUCTION VALVE

for the suction line in the tank

Article	Code
Suction valve	30010-E25



#30010-E25

REPLACEMENT DOSING HOSE PUMP

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



30010-E40

#30010-E9/#30010-E91

DOSING PUMP HOSE

Replacement dosing pump hose made of LDPE, resistant to acids and chemicals, **including** sleeve and silicone lubricating grease. Material: Pharme

Article	Code
Dosing pump hose	30010-E8



#30010-E8

THERMOMETER

for air, solar **and** water temperature, PT 1000, cable length: 3 m.

For systems from 2021

Article	Code
Thermowell 1/4"	30010-E29
Thermometer	30010-E47



#30010-E47

#30010-E29

THERMOMETER LUFTEMPERATUR

Required for the winter mode function, **without** cable, electronic temperature sensor with 4 - 20 mA output.

Spare part for systems until the end of 2020

Article	Code
Thermometer air temperature	30010-E11



#30010-E11

THERMOMETER WATER TEMPERATURE

For water temperature including immersion sleeve 1/4".

Spare part for systems until the end of 2020

Article	Code
Thermometer including thermowell 1/4"	30010-E28



#30010-E28



2/2-WAY SOLENOID VALVE 1/2"

- 230 V/50Hz
- For automatic fresh water replenishment
- Servo-controlled diaphragm valve
- Spring-coupled diaphragm opens **without** differential pressure
- Soft-closing and low-noise
- High flow rate with compact design
- Energy-saving dual coil technology in kick and drop design
- Material: brass, seal: NBR

Article	Code
2/2-way solenoid valve 1/2"	30010-E52



#30010-E52

COAGULATION MIXER

The coagulation mixer is a static mixer for cavitating the water and injecting Floc+ flocculant. It enhances the coagulation and flocculation effect for the conversion of dissolved particles into filterable substances. Made of plastic, with transparent tube, suitable for MIDA.Sin Pro Oxygen (see catalog page 90) and MIDA.Sin Pro (see catalog page 92)

Article	Code
Connection: d50/DN40	30010-E59
Connection: d63/DN50	30010-E60



#30010-E59/#30010-E60

ADHESIVE PLUGS

d50mm -1/4" female thread, for tapping ball valve and injection valve

Article	Code
PVC reduction 1/2" AG x 1/4" IG	30010-E26
Adhesive plugs	30010-E19



#30010-E19



#30010-E26

VACCINATION VALVE 1/4" AG

For the injection of water care products

Article	Code
Replacement diaphragm for 1/4" injection valve	30010-E42
Injection valve 1/4"	30010-E4



#30010-E4



#30010-E42

EXTRACTION BALL VALVE 1/4"

Material: PP, for the sample water line

Article	Code
Extraction ball valve 1/4"	30010-E24



#30010-E24



ELECTRONIC FLOW SWITCH WITH FILTER

NEW
#30020-E27

Allows you to visually check the sample water of the probes.
Error message in the event of insufficient flow to the probes.
Prevents incorrect measurements and incorrect dosing.
Pre-filter **included**



#30010-E55



#30020-E27



#30010-E27



#30010-E36



#30010-E37



#30010-E38

Article	Code
Sealing	30010-E37
Strainer	30010-E36
Cap with strainer and seal	30010-E38
Sample water filter with housing for flow monitor	30010-E55
Flow switch including pre-filter	30010-E27
Flow switch including pre-filter for salt electrolysis	30020-E27



ELECTRONIC FLOW SWITCH WITH FILTER

NEW
from 2024
#30020-E28

Allows you to visually check the sample water of the probes.
Error message in the event of insufficient flow to the probes.
Prevents incorrect measurements and incorrect dosing.
Pre-filter **included**.

For systems from 2023



#30010-E71



#30020-E28



#30010-E68



#30010-E69



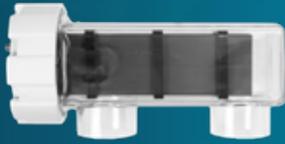
#30010-E70

Article	Code
Sealing	30010-E70
Strainer	30010-E69
Cap with strainer and seal	30010-E71
Flow switch including pre-filter	30010-E68
Flow switch including pre-filter for salt electrolysis	30020-E28



ELECTROLYTIC CELL

Made of titanium with iridium-ruthenium coating, chlorine production of 25 g/h at 0.4 % salt content, approx. 8,000 operating hours*



#30020-E1



#30020-E11



#30020-E4

Article	Code
Housing	30020-E4
Electrolytic cell without housing	30020-E11
Electrolytic cell with housing	30020-E1



SACRIFICIAL ANODE

EXKLUSIV MIDAS

1/2" sacrificial anode for corrosion protection of stainless steel installation parts, especially for salt electrolysis, material: zinc, in 50 mm or 63 mm PVC, with T-piece

PLEASE NOTE:

We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components. However, corrosion can be reduced or even avoided if an optional sacrificial anode is installed.

Article	Code
Sacrificial anode 50 mm with adhesive sockets	OA-50
Sacrificial anode 63 mm with adhesive sockets	OA-63



#OA-50/#OA-63



INJECTION SECTION TRANSPARENT

NEW

The transparent injection section has 4x internal threads 1/4" for the installation of injection valves and an adhesive connection of 50 mm inside / 63 mm outside. The unused threads should be closed with a plug including O-ring # 30010-E58.

Article	Code
Injection section	30010-E82





MIDA.SIN SERVICE CASE

EXKLUSIV
MIDAS

Dosing Systems
03



#30010-E30

MIDA.Sin service case contains:

- 1x electronic flow switch **including** pre-filter # 30010-E28
- 1x front cover for dosing pump **including** pump hose # 30010-E40
- 4x dosing pump hose # 30010-E8
- 1x probe holder # 30010-E35
- 1x injection valve # 30010-E4
- 4x diaphragm for injection valve # 30010-E42
- 3x speedfit connection ¼" sample water line # 30010-E62
- 2x plug ½" # 30010-E58
- 1x foot for suction line # 30010-E25
- 2x storage container for pH/Rx probes # 30010-E49
- 1x storage liquid for pH/Rx probes
- 1x key for probes # 30010-E39
- 4x O-ring for probes 11.6 x 2.3 mm
- 1x buffer solution Redox 650 mV
- 1x buffer solution pH 4.01
- 1x buffer solution pH 7.00
- 1x buffer solution pH 9.21
- 1x fine-wire fuse T800 mA (for MIDA.Sin Pro Oxygen, MIDA.Sin Pro, MIDA.Sin Salt) # 30010-E53
- 1x fine-wire fuse T80 mA (for MIDA.Sin, pH dosing system)
- 1x fine-wire fuse T1.6 A (for MIDA.Sin Salt, MIDA.Sin Salt Easy)
- 1x fine-wire fuse T125 mA (for MIDA.Sin Pro Oxygen, MIDA.Sin Pro)
- 1x fine-wire fuse T8 A (for MIDA.Sin Salt)

Article	Code
MIDA.Sin Service case	30010-E30

MEASURING AND CONTROL UNIT

MIDA.STATION

MIDA.Station serves as a complete pool control system that doses chemicals for pools to keep the water in the pool in perfect condition. The system measures and controls the water quality with maximum accuracy and reliability, controls the temperature, filtration periods, pool lighting and automatically makes the necessary adjustments. Includes 3 additional relays (e.g. pool covers, heat pumps).

Easy to install in all pool systems. The MIDA.station is upgraded by adding the measurement and control of up to 4 water parameters (pH, redox, free chlorine, conductivity). Further upgrading is also possible after purchase with "upgrade sets". Coaxial cable with BNC connector. Probes are interchangeable. 230 V, protection class IP54.

Controls all components, e.g.:

- ✓ Filter pump 230 V, as well as 400 V and frequency-controlled pumps via on-site relay
- ✓ Lighting
- ✓ Besgo bar valve
- ✓ Counter-current system
- ✓ Heat pump
- ✓ Pool cover



Scope of delivery:

- 1 pH module (pH probe and mounting accessories)
- 1 redox module (redox probe and mounting accessories)
- 4 x buffer solution: neutral, pH 7, pH 10, 468 mV redox
- 2 dosing hose pumps 1.5 l/h
- Electronic control for filter, lighting, temperature
- 4 additional analog outputs
- Including pre-installation for remote control and MODBUS
- Standard: PVC probes (optional glass)
- Probe holder PVC T-piece 50 x 1 1/2" IG
- Dosing hose
- Injection valves 1/2"AG

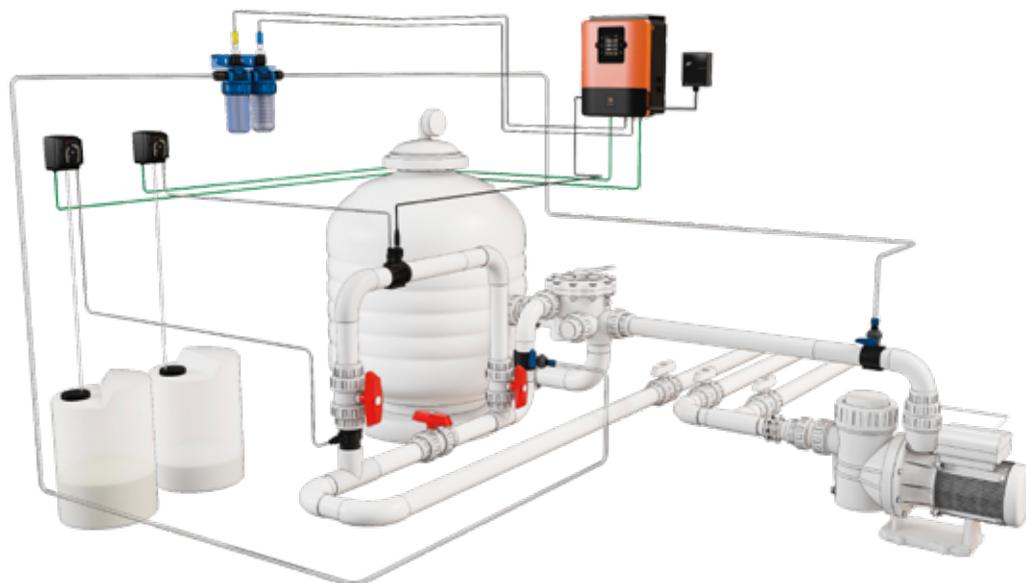
INSTALLATION

- B** Filter
- C** Circulation pump (230 V, 400 V, frequency-controlled)
- 1** Electronics box
- 4** pH probe (optional - model with pH control)
- 5** Redox probe (optional - model with redox control)
- 6** Conductivity probe (optional - model with conductivity control)
- 8** Dosing hose pump (optional - model with pH control)
- 8** Injection valve (optional - model with pH control)
- 10** Acid container (optional - model with pH control.
Not included in the scope of delivery)
- 15** Other elements for the swimming pool
- 16** RF, RF/WIFI or WIFI module
- 17** Free chlorine control



MIDA.STATION PRO

Version as MIDA.Station, but with pH Pro and Redox Pro connection sets, **including** Swiss quality glass probes and separate sample water tank, see from catalog page 116.



Description	MIDA.Station, MIDA.Station Pro
Display*	color display, (9 languages: D, GB, F, CZ, E, P, I, TR, NL)
Power supply	230 V 50/60 Hz
Output	no
max. consumption	40 W
Dimensions	270 x 220 x 115 mm
Electronics box	non-flammable plastic ABS, black
Front cover	Plastic ABS, orange
Electronics	Microprocessor 32 bit
Ventilation	-
Hourly recording	Yes, can be reset by the customer
Alarms	pH dosing/max. pH dosing time/memory error
Communication	MODBUS/WIFI
230 V output control (3 outputs)	Acid pump/relay AUX 1/relay AUX 2
Potential-free output control (4 outputs)	Filtration/lighting/heating (AUX 4)/relay AUX 3
Inputs	2 analog input signals

Article	Code
MIDA.Station	102030
MIDA.Station Pro	102031

SALT ELECTROLYSIS/HYDROLYSIS UNIT

MIDA.OXI

This device is a water treatment system, AS WELL AS a control unit for swimming pools. This water treatment system combines low salinity electrolysis with hydrolysis. Low salinity electrolysis produces chlorine on the basis of very slightly salty water (from 1.5g of salt per liter). Hydrolysis produces disinfectants such as oxygen, peroxide, hydroxyl and ozone.

All these oxidants fight and eliminate organic matter and pathogens in the water. The used chlorine turns back into salt in the pool and the oxidants from the hydrolysis process turn back into water on their way back into the pool. The device centrally controls all pool components and guarantees efficient interaction. Coaxial cable with BNC connector. Probes are interchangeable.

With the pH and redox control options, the device becomes a fully automatic measuring and control unit.

- **Including** dosing hose pump 1.5 l/h
- **Including** integrated pH proportional control (from version 3.46)
- Standard: PVC probes (optional glass)
- Cell service life: approx. 5,000 operating hours* (guarantee)
- Probe warranty: 6 months,
- Max. operating pressure: 7 bar
- The display is connected to the system with a cable and can be removed.
- 230 V, protection class IP54.
- **Inklusive Including** flow switch, therefore horizontal & vertical installation possible



Controls all components, e.g:

- ✓ Filter pump 230 V, as well as 400 V and frequency-controlled pumps via on-site relay
- ✓ Lighting
- ✓ Besgo bar valve
- ✓ Counter-current system
- ✓ Heat pump
- ✓ Pool cover

PLEASE NOTE:

We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components. However, corrosion can be reduced or even avoided if an optional sacrificial anode is installed.



Optionally available with pH Pro and Redox Pro connection sets **including** Swiss quality glass probe and separate sample water tank. **Recommendation:** Installation **including** temperature module, bypass and earthing set. (see from catalog page 116)

INSTALLATION

- B** Filter
- C** Circulation pump (230 V, 400 V, Frequency-controlled)
- 1** Electronics box
- 3** Electrolytic cell (always in vertical position, installed at the highest point and with bypass)
- 4** pH probe (optional - model with pH control)
- 5** Redox probe (optional - model with redox control)
- 6** Conductivity probe (optional - model with conductivity control)
- 8** Dosing hose pump (optional - model with pH control)
- 9** Injection valve (optional - model with pH control)
- 10** Acid container (optional - model with pH control. *Not included in the scope of delivery*)
- 15** Other elements for the swimming pool
- 16** RF, RF/WIFI or WIFI module



Description	MIDA.Oxi 1	MIDA.Oxi 2	MIDA.Oxi 3
Use		Private pools	
Intensity		0 - 100 %	
Salt concentration		1.5 g per liter	
Chlorine production with 1.5 g salt	14 g/h	20 g/h	30 g/h
m ³ Pool (up to 28°C)*	59 m ³	95m ³	155 m ³
m ³ Pool (from 28°C)*	47 m ³	76 m ³	124 m ³
m ³ pool (from 28°C+ children)	39 m ³	63 m ³	103 m ³
Display*	color display, (9 languages: D, GB, F, CZ, E, P, I, TR, NL)		
Energy supply	230 V 50/60 Hz		230 V 50/60 Hz
Output	8 - 13 A	8 - 25 A	8 - 35 A
Max. power consumption	120 W	200 W	400 W
Dimensions	270 x 220 x 115 mm		
Electronics box	fireproof plastic ABS, black		
Front cover	ABS plastic, green		
Protection class	IP54		
Electronics	Microprocessor 32 bit		
Intensity control	Ampere + Volt		
Ventilation	Natural convection		
Automatic cleaning	programmable 1 - 24 hours		
Flow switch	Gas sensor		
Operating hours counter	Yes		
Disinfection control	from 0 - 100 %		
Alarm	Insufficient salt/no flow/pH measurement/pH extremely high or low/ pH max. measuring time/communication error		
Test salinity	-		
Production control through pool cover	programmable 0 - 100 %, production of disinfection depending on pool cover (open or closed)		
Production control via external signal	-		
Communication	MODBUS/WIFI		
230 V output control (3 outputs)	Acid pump/relay AUX 1/relay AUX 2		
Potential-free output control (4 outputs)	Filtration/lighting/heating (AUX 4)/relay AUX 3		

* with a filter run time of at least 8 hours (if there are several users per day or a shorter filter run time, the required chlorine production should be adjusted together).

PRIVATE POOLS: MAX. POOL SIZE UP TO 59 M³

Article	Code
Oxi 1	110000
Oxi 1 pH	112000
Oxi 1 pH/Rx	112030

PRIVATE POOLS: MAX. POOL SIZE UP TO 95 M³

Article	Code
Oxi 2	120000
Oxi 2 pH	122000
Oxi 2 pH/Rx	122030

PRIVATE POOL: MAX. POOL SIZE UP TO 155 M³

Article	Code
Oxi 3	130000
Oxi 3 pH	132000
Oxi 3 pH/Rx	132030

Optional accessories and
Extension modules from catalog page 116



OPTIONAL ACCESSORIES AND SPARE PARTS

FOR MIDA.STATION AND MIDA.OXI

PH-SET

Measurement and control of the pH value. Consists of: pH probe (material PVC), chip, 3 x buffer solution (1 x 50 ml neutral, 1 x 50 ml pH 7, 1 x 50 ml pH 10) and mounting accessories (1 x T-piece 50 x 1/2" IG and 1 x screw connection probe holder 1/2" AG).

Article	Code
pH-Set	002000



REDOX-SET

Measurement and control of the redox value. Consists of: Redox probe (material PVC), chip, 2 x buffer solution (1 x 50 ml neutral, 1 x 50 ml Redox 465 mV) and mounting accessories (1 x T-piece 50 x 1/2" IG and 1 x screw connection probe holder 1/2" AG).

Article	Code
Redox-Set	000030



PH-SET PRO

Measurement and control of the pH value.
Consists of: Swiss quality pH glass probe, chip, 3 x buffer solution (1 x 50 ml neutral, 1 x 50 ml pH 7, 1 x 50 ml pH 10), sample water container and mounting accessories (2 x T-piece 50 x 1/2" female thread, 2 x ball valve 1/2" male thread, 2 x hose connection fitting 1/2" male thread, 4 m sample water hose 8 x 12 mm).

Article	Code
pH-Set Pro	002010



REDOX-SET PRO

Measurement and control of the redox value.
Consists of: Swiss quality redox glass probe, chip, 2 x buffer solution (1 x 50 ml neutral, 1 x 50 ml redox 465 mV), sample water container and mounting accessories (2 x T-piece 50 x 1/2" female thread, 2 x ball valve 1/2" male thread, 2 x hose connection fitting 1/2" male thread, 4 m sample water hose 8 x 12 mm).

Article	Code
Redox-Set Pro	000040



PH-SONDE

Material: PVC plastic, cable length: 1.5 m Connection: BNC

Article	Code
pH-Sonde	001010



REDOX-SONDE

Material: PVC plastic, cable length: 1.5 m Connection: BNC

Article	Code
Redox-Sonde	001030





PH-PROBE PRO

Swiss quality probe

Material: glass, cable length: 2.5 m Connection: BNC

Article	Code
pH-probe Pro	001020



#001020



REDOX-PROBE PRO

Swiss quality probe

Material: glass, cable length: 2.5 m Connection: BNC

Article	Code
Redox-probe Pro	001040



#001040

TECHNICAL DATA

Description	pH	Redox
Probe type	Epoxi	Epoxi
Measuring range	0-14 pH	0-1000 mV
Measuring accuracy	0,1 pH	1-3 mV
Material	Ag/Cl	Gold
Probe holder	ABS, d 50/63 mm	ABS, d 50/63 mm
Additional equipment	-	-
Cables	2 m	2 m
Plug	BNC Schutz	BNC Schutz



FLOW SWITCH

with 2 m cable, **including** probe holder ABS, d 50/63 mm, 3/4" internal thread

Article	Code
Flow switch	000700



#000700



SALT TESTER

Measurement and regulation of the conductivity value (configuration of the system required before delivery from the factory). **Including** KCl storage liquid #102030-E17 and buffer solution #102030-E26, #102030-E27.

Article	Code
Replacement probe	000410
Salt tester	000405



#000405



CONTROL OF FREE CHLORINE

Measurement and control of free chlorine (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 12 mm and two 1/2" valves; Connector: Terminals

Article	Code
Free chlorine control	000400



#000400



DOSING HOSE PUMP 1.5 L/H

For pH value or e.g. flocculation, algaecide. **Includes** 2 m PE hose 4 x 6 mm and 2 m PVC hose 4-6 mm, as well as manual on/off switch. 230 V, CE approved.

Article	Code
Replacement tube Santoprene for pH dosing hose pump**	102030-E7
Dosing hose pump 1.5 l/h	000100



PERISTALTIC METERING PUMP 0.6 - 6.0 L/H

For pH value or e.g. flocculation, algaecide. **Including** suction base, injection 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
Replacement tube Santoprene for pH dosing hose pump**	102030-E5
Dosing hose pump 0.6-6 l/h	000101



SCREEN MOUNT

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

Article	Code
Screen mount	WHFVA



ERDUNGS-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 reduced or avoided with the earthing set.

Article	Code
Earthing set	000550



WIFI MODULE

Control of the systems and pool components via smartphone, tablet or computer, **including** 10 m cable. Saves the measured values for 30 days; values can be exported as a PDF file.

Article	Code
WIFI module	000006



TEMPERATURE MODULE

Temperature sensor for current water temperature and control of the heat source, e.g. heat pump.

- Description: Temperature
- Probe type: Thermometer
- Measuring range: 0-100°C
- Measuring accuracy: 1°C
- Material: Stainless steel
- ½ AG
- **including** probe holder: ABS 50/63 mm ½" IG
- Cable: 2 m
- Connector: Terminals

Article	Code
Temperature module	000500



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

SPARE PARTS FOR MIDA.OXI



Zelle + Housing



#102030-E30



#102030-E8



#102030-E9



#102030-E10



#102030-E11



#102030-E12



#102030-E13



#102030-E14



#102030-E18



#102030-E20



#102030-E21



#001000



#102030-E28

Code	Description / Article
102030-E28	Plug ½" for probe holder
102030-E11	PVC suction hose, d 4 x 6mm, 1 piece = 1 meter
102030-E10	Dosing hose 1 piece = 1 meter
102030-E9	Injection valve ½" AG
102030-E24	PVC ball valve ½" (inside) x ½" (outside) with blue handle
102030-E8	Turnstile for pH dosing hose pump**
102030-E14	Screw connection probe holder ½" AG for pH/Redox probes
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" female thread, for 2 probes and 3/4" female thread for flow switch
102030-E20	Bypass with sample water tank including 4 m hose 8 x 12 mm, 2 x impulse valve ½" and 2 x ball valve ½" AG x ½" IG
102030-E21	Bypass with double sample water tank including 4 m hose 8 x 12 mm, 2 x impulse valve ½" and 2 x ball valve ½" AG x ½" IG
RCS22	Housing for RCB16, RCB33
001000	pH redox chip
102030-E30	Color screen/display 2.8"
RCB16	Titanium cell 15A (Oxi 1) - without housing
RCB33	Titanium cell 30A (Oxi 2) - without housing
RCB50	Titan-celle 50A (Oxi 3) - without Housing

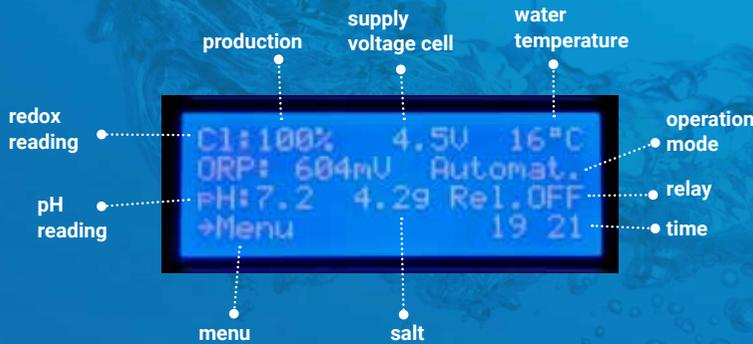


MIDA.LOW SALT

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 menunavigation in 12 different languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR), 230V, protection class IP65.

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)
- ✓ 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



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
- **Including** 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

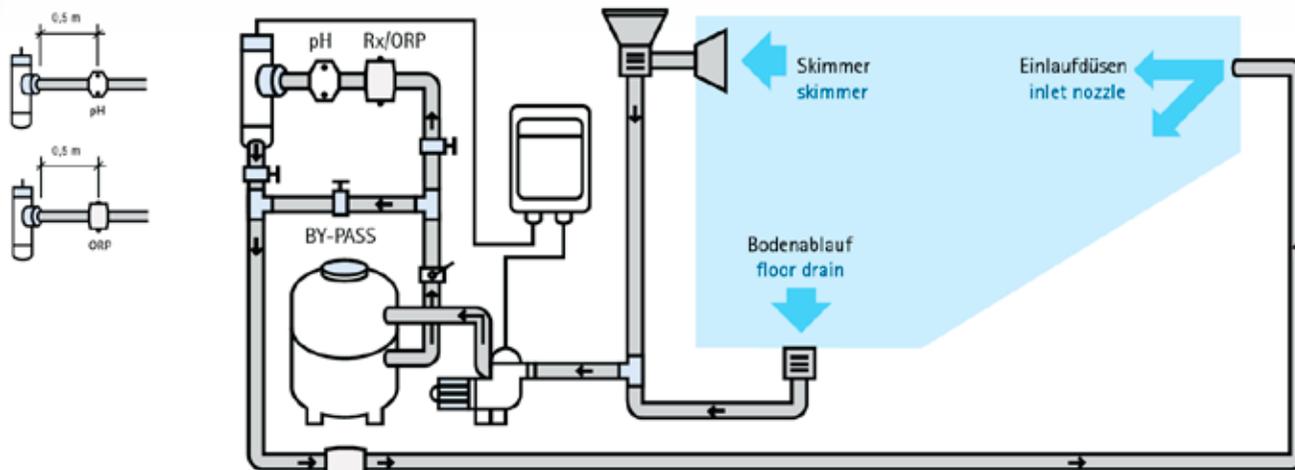
Recommended chlorine production by pool size and filter usage

		Pool volume							
		25 m ³	50 m ³	75 m ³	100 m ³	125 m ³	150 m ³	175 m ³	200 m ³
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	Maximum	Check
Hardness [ppm]	150	250	monthly
Alkalinity [ppm]	100	160	weekly
pH	7,0	7,8	weekly
Cyanuric acid	0	50	monthly



INJECTION

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
m ³ Pool (up to 28°C)*	50 m ³	75 m ³	125 m ³
m ³ Pool (over 28°C)*	25 m ³	50 m ³	100 m ³
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	Weight
MIDA.Low Salt 1	50 m ³	1031	4 kg
MIDA.Low Salt 2	75 m ³	1032	4 kg
MIDA.Low Salt 3	125 m ³	1033	4 kg

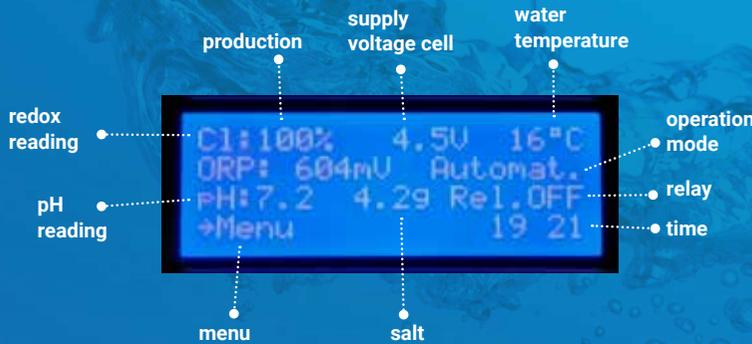


MIDA.SALT

Compact salt electrolysis for private swimming pools with impact-resistant housing, 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.

BENEFITS

- ✓ 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)
- ✓ 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



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
- **Including** 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

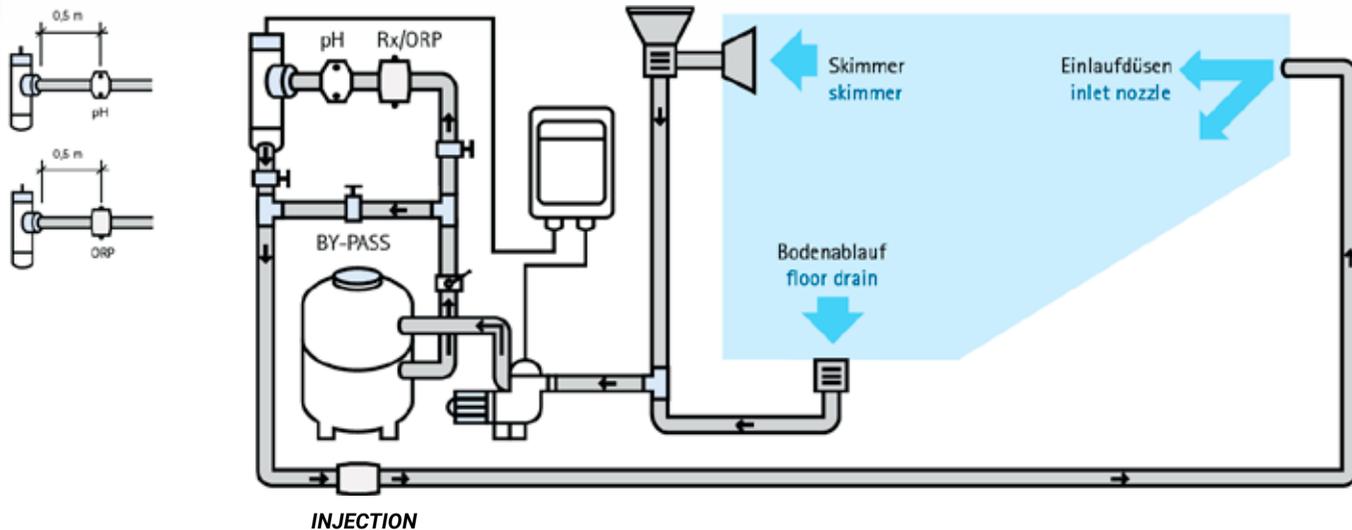
Recommended chlorine production by pool size and filter usage

filtration times	Pool volume							
	25 m³	50 m³	75 m³	100 m³	125 m³	150 m³	175 m³	200 m³
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	Maximum	Check
Hardness [ppm]	150	250	monthly
Alkalinity [ppm]	100	160	weekly
pH	7,0	7,8	weekly
Cyanuric acid	0	50	monthly



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
m ³ Pool (up to 28°C)*	50 m ³	100 m ³	150 m ³
m ³ Pool (over 28°C)*	25 m ³	50 m ³	100 m ³
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 power output	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		
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	Weight
MIDA.Salt 1	50 m ³	1021	4 kg
MIDA.Salt 2	100 m ³	1022	4 kg
MIDA.Salt 3	150 m ³	1023	4 kg



POOLSALT



Complies with quality standard EN 16401 and the Biocidal Products Regulation (BPR) 528/2012.

Pool salt contributes to safer use of the swimming pool and offers a high level of swimming comfort. Poolsel is produced on the basis of natural, coarse sea salt with an extremely high purity and a low sulphate content and does not contain any harmful separating agents. The pool salt is used to optimize the salt content and for chlorine production by electrolysis.

Application: Salt for swimming pools/salt electrolysis (not suitable for membrane electrolysis), Sea salt for optimizing the salt content.

Packaging contents: 25 kg bag

- ✓ Salt crystals - grain size: 1-2 mm
- ✓ Very high purity - contains no additives
- ✓ Good and fast solubility
- ✓ Suitable for all work with electrochlorine initiators



#799

Article	Code	PU
Pool salt	799	40 (per pallet)



PUFFER SOLUTIONS



#1070-E3



#102030-E1



#102030-E2



#102030-E3



#102030-E4

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 475 mV, clear, 50 ml	102030-E3
Buffer solution neutral, clear, 50 ml	102030-E4

WATER CARE PRODUCTS

WATER CARE LIQUID



#C0001



#C0002



#C0003



#C0004



#C0005



#C0006

Article	Contents	Weight	PU	Classification	Code
MIDA.Sin Chlor Pure 13 %	20 l	24 kg	30 (per pallet)	ADR 8/UN 1791	C0001
MIDA.Sin pH Minus 15 %	20 l	24 kg	30 (per pallet)	ADR 8/UN 2796	C0002
MIDA.Sin pH Plus 5 %	20 l	24 kg	30 (per pallet)	ADR 8/UN 1824	C0003
MIDA.Sin Algizid 10 %	20 l	24 kg	30 (per pallet)	ADR 9/UN 3082	C0004
MIDA.Sin Floc+ 10 % *	20 l	24 kg	30 (per pallet)	ADR 8/UN 3264	C0005
MIDA.Sin Oxy Pure 11,9 %	20 l	24 kg	30 (per pallet)	ADR 5.1/UN 2984	C0006

Also available individually. Also available in 5 kg canisters on request.

PE SAFETY CONTAINER

PE safety container with carrying handle 40 l, translucent, 40 x 40 x 33 cm for 25/30 l containers, color white. Prevents the liquids from destroying the soil or getting into the groundwater and damaging the environment. Spilled substances are absorbed in accordance with legal requirements and retained in the drip tray.

Article	Code
PE-Safety container	392



#392

*Mixture of coagulant and flocculant



WATER CARE PRODUCTS



#23110



#23020



#23120



#23100



#23164



#23140



#23180



#23190



#23172



#23160



#23152L

NEW

Article	PU	Code
pH raiser, granules, 1 kg	6	23110
Algae EX, foam-free, 1 l	6	23120
pH reducer, granules, 1.5 kg	6	23100
Alkaline cleaner 1 l for greasy deposits	6	23164
Winterfit 1 l	6	23140
Lime EX, 1 l	6	23180
Metal EX, 1 l	6	23190
Roller shutter cleaner 1 l	6	23172
Acidic cleaner 1 l for limescale, algae and rust discoloration	6	23160
Super Floc cartridges 8 pieces pack	10	23152L
HC-Chlor granules, inorganic 1 kg	6	23020
Algae EX, foam-free, 3 l	4	23121
Winterfit 3 l	4	23141

CLEAN WATER WITH UV-C DISINFECTION

As early as 1878, it was observed that sunlight has an antibacterial effect. Further investigations revealed that the germicidal effect does not come from visible light, but from invisible ultraviolet light in the wavelength range of 200 - 280 nanometers (nm).

UV-C disinfection is a popular additional option for swimming pool water treatment. This can disinfect up to 80 percent of the swimming pool water without affecting the water quality (pH value, oxygen content).

The addition of water care products can therefore be significantly reduced. The UV-C disinfection systems are integrated into the swimming pool's filter circuit. The UV-C rays destroy the cells and DNA of bacteria, viruses and microorganisms so that they can no longer multiply - the bound chlorine is effectively broken down in an environmentally friendly manner.



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 risk of overdose



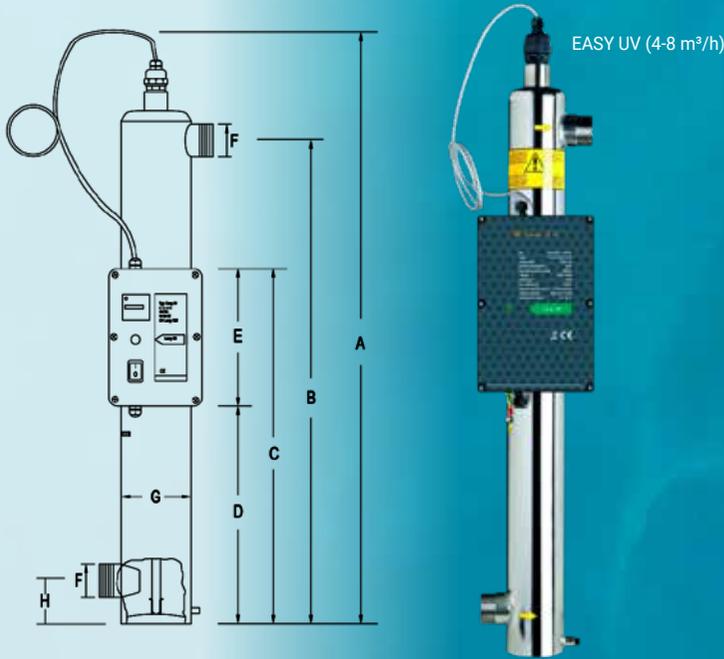
UV-C is an environmentally friendly technology

UV-C STERILIZATION TECHNOLOGY

MODELL EASY-UV

The EASY-UV devices are bacteriologically tested. If you follow the installation instructions carefully, you will achieve a degree of disinfection of between 75% and 91% after the first day of operation. On day two, this figure is already 94 %. EASY-UV devices sterilize the water using UV-C light and destroy the chloramines. Bacteria, viruses, floating algae, fungi, parasites and other microorganisms are killed. The unpleasant odor and irritation of the mucous membranes in the nose, eyes, skin and

throat caused by chloramines are eliminated. Easy-UV devices save on chemicals. Up to 50 % less disinfectant is required and the ageing of building materials in and around the pool slows down considerably. UV-C disinfection is compatible with all other forms of water treatment. The device is simply integrated into the water circuit via the filter pump.



Technical Data	4-8 m³/h	5-15 m³/h
Lamp	1 x low pressure lamp	1 x low pressure lamp
Lamp life	approx. 9,000 operating hours	approx. 9,000 operating hours
Performance	80 W	80 W
Wavelength	253,7 Nanometer	253,7 Nanometer
Intensity 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
Protection class	IP54	IP54
Ballast	electronic	electronic
Flow rate	4 - 8 m³/h	5 - 15 m³/h
Bypass operation up to	15 m³/h pumps	30 m³/h pumps
Max. operating pressure	2,5 bar	2,5 bar
Material: Housing	AISI 316/1.4404	AISI 316/1.4404
Water temperature	10 - 40°C	10 - 40°C
Hour meter	no	Yes
On/off switch	no	Yes
Control lamp	Yes	Yes

Model	A	B	C	D	E	F	G	H
Easy-UV 4-8 m³/h	1000 mm	790 mm	650 mm	400 mm	240 mm	1 ½" 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

For pool contents	Flow rate	max. flow rate in the bypass	External thread	Code
40 m³	4-8 m³/h	15 m³/h	1 ½"	129
20-75 m³	5-15 m³/h	30 m³/h	2"	207

REPLACEMENT LAMP

Article	Watt	Code
Replacement bulb for #129 and #207	80	129-E1

ACCESSORIES

Article	Code
Pair of plastic brackets for #129	129-E4
Pair of plastic brackets for #207	207-E1



EASY UV (5-15 m³/h)



HOUSING STAINLESS STEEL V4A/AISI 316L OR PLASTIC PVC

- Stainless steel housing V4A/AISI 316L or plastic PVC
- 2 x 63/50 mm adhesive connection made of PVC, alternatively 2 x 1 1/2" internal thread
- Connection 230 V

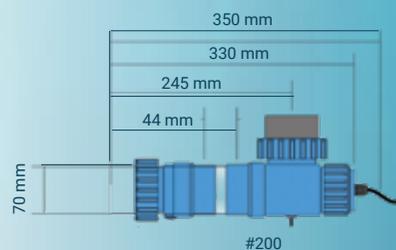
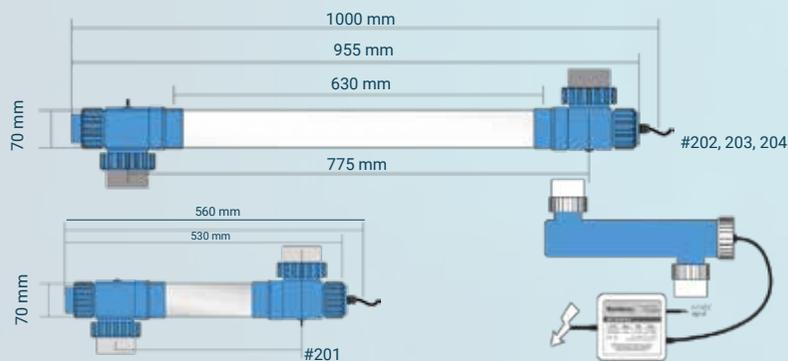


#201, #202, #203, #204



#200

	12 Watt	16 Watt	40 Watt	75 Watt	130 Watt
max. pool size	12 m ³	20 m ³	45 m ³	65 m ³	90 m ³
Lamp	1 x low pressure PL-S modules 21W	1 x low pressure T5 16W 4P	1 x low pressure T5 40W 4P	1 x low pressure T5 75W 4P	1 x low pressure PHILIPS 130W Amalgam
Lamp life	approx. 9,000 operating hours	approx. 9,000 operating hours	approx. 9,000 operating hours	approx. 9,000 operating hours	approx. 16,000 operating hours
Power	12 W	16 W	40 W	75 W	130 W
Wavelength	253,7 Nanometer	253,7 Nanometer	253,7 Nanometer	253,7 Nanometer	253,7 Nanometer
Supply	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
Power consumption	0,2 A	0,29 A	0,29 A	0,57 A	1,1 A
Material: Housing	ABS plastic	Stainless steel V4A/AISI 316L			
Protection class	IP54	IP54	IP54	IP54	IP54
Max. operating 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
Recomm. Flow rate	3 m ³ /h	5 m ³ /h	11 m ³ /h	16 m ³ /h	22 m ³ /h
Hour meter	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



For pool contents up to	Watt	Length	Code
12 m ³ (Whirlpool)	12	35 cm	200
20 m ³	16	56 cm	201
45 m ³	40	100 cm	202
65 m ³	75	100 cm	203
90 m ³	130	100 cm	204



BLUE-TECH REPLACEMENT LAMPS

Article	Watt	Code
Replacement lamp PL-S	21	200-E1
Replacement lamp T5	16	201-E1
Replacement lamp T5	40	202-E1
Replacement lamp T5	75	203-E1
Replacement lamp Philips	130	204-E1

HOUSING MADE OF PVC - PLASTIC

EXKLUSIV
MIDAS

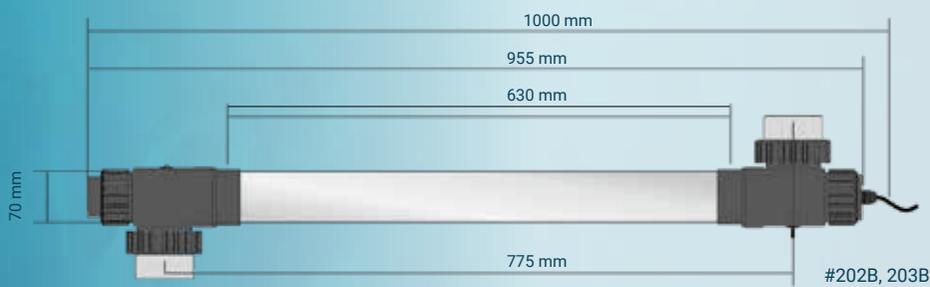


- UV-resistant coating
- Suitable for salt water*
- 2 x 63/50 mm adhesive connection, alternatively 2 x 1 1/2" internal thread
- Connection 230 V



* max. salt concentration 35 g/l

	Version 40 Watt	Version 75 Watt
Max. pool size	45 m ³	65 m ³
Lamp	1 x low pressure T5 40W 4P	1 x low pressure T5 75W 4P
Lamp life	9,000 operating hours	9,000 operating hours
Performance	40 W	75 W
Wavelength	253,7 Nanometer	253,7 Nanometer
Supply	230 V AC 50/60 Hz	230 V AC 50/60 Hz
Power consumption	0,42 A	0,8 A
Material: Housing	PVC (UV-C stable)	PVC (UV-C stable)
Protection class	IP54	IP54
Max. operating pressure	2 bar	2 bar
Water temperature	10 - 40°C	10 - 40°C
Recomm. Flow rate	9 m ³ /h	14 m ³ /h
Hour meter	no	no
Diameter	70 mm	70 mm
Length	1000 mm	1000 mm



For pool contents up to	Watt	Length	Code
45 m ³	40	100 cm	202B
65 m ³	75	100 cm	203B

REPLACEMENT UV LAMPS

Article	Watt	Code
replacement lamp T5 Lighttech	40	202B-E1
replacement lamp T5 Lighttech	75	203B-E1

04



WATER HEATING, SOLAR & DEHUMIDIFICATION



Our diverse range of MIDAS heat pumps always fulfils the increasing demands of our customers and the market: we focus on energy neutrality and low-noise operation. With our products, we set reliable standards in full-inverter heat pump technology and fulfil your expectations at the highest level. Retrofitting your pool with our MIDAS heat pump models is uncomplicated and easily and conveniently at any time. Our entire range of MIDAS heat pumps is PV-compatible and can be seamlessly connected to your existing PV system.

Benefit from our MIDA.Sunny solar collectors, which are not only energy-neutral but also extremely efficient. The combination of solar collectors and MIDAS heat pumps offers an extremely attractive and cost-effective hybrid solution for warm water temperatures of up to 43°C. We also offer a wide selection of heat exchangers and swimming pool dehumidifiers to round off the product range for your personal oasis of well-being. Immerse yourself in the world of modern pool technology and be inspired by our innovative solutions!

Water heating, solar & dehumidification
04

OVERVIEW



HEAT PUMPS

- P. 134 MIDA.Maxx ⚡
- P. 136 MIDA.Boost ⚡
- P. 138 MIDA.Force ⚡
- P. 140 MIDA.Joy ⚡
- P. 142 MIDA.Quick
- P. 144 MIDA.Black
- P. 146 MIDA.Public
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SOLAR ABSORBER

- P. 153 MIDA.Sunny ⚡
- S. 154 MIDA.Sunny accessories



HEAT EXCHANGER

- P. 156 Plate heat exchanger
- P. 158 Heat exchanger solid titanium
- P. 159 Stainless steel heat exchanger
- P. 160 Heat exchanger plastic/stainless steel
- P. 161 Heat exchanger high-flow
- P. 162 Heat exchanger high-temp



ELECTRIC HEATER

- P. 163 Electric heaters 230 V and 400 V
- P. 164 Electric heaters plastic & incoloy



SWIMMING POOL DEHUMIDIFIER

- P. 165 MIDA.Air DRY 500, 400
- P. 166 MIDA.Air DRY 800
- P. 167 MIDA.Air accessories



QUICK OVERVIEW HEAT PUMPS DIFFERENCES

STANDARD EQUIPMENT ON ALL MODELS:

- PV Ready*
- Titanium heat exchanger, ideal for salt water and chlorine
- Digital display
- Manometer
- Cooling, heating and automatic function
- Automatic defrosting device
- Flow monitor
- Winter cover
- Registered with WEEE reg. no. DE 54436223 for the recycling of old appliances

*The heat pumps already fulfil the technical requirements for operation with renewable energies (photovoltaics, solar, etc.).



Heating function



Cooling function



Automatic function

COMPARISON TABLE

	MIDA.Maxx Full-Inverter**	MIDA.Boost Full-Inverter**	MIDA.Force Full-Inverter**	MIDA.Joy Full-Inverter	MIDA.Quick ON/OFF
Temperature range	from -15°C to +43°C	vfrom -15°C to +43 °C	from -10°C to +40 °C	from -5°C to +43°C	from -5°C to +35 °C
Housing	Stainless steel V2A/AISI 304	ABS Plastic	ABS Plastic	ABS Plastic	Galvanised steel
Sizes	14-31 kW	12-29 kW	7-20 kW	7-17 kW	4-26 kW
Fan alignment	vertical	horizontal	horizontal	horizontal	horizontal
up to max. pool volume	approx. 120 m³	approx. 120 m³	approx. 95 m³	approx. 75 m³	approx. 100 m³
WiFi included	yes	yes	yes	no	no
WiFi optional	-	-	-	yes	yes
Refrigerant	R32	R32	R32	R32	R410A
Display	5" Colour touchscreen LCD	5" Colour touchscreen LCD	4,7" Glass touch LED display B/W	4,7" Glass touch LED display S/W	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



Environmentally friendly refrigerant R32



** Distribution only via specialised dealers

FULL-INVERTER HEAT PUMPS

HIGHLY EFFICIENT AND ENERGY-SAVING

With the MIDA.Maxx, MIDA.Boost, MIDA.Force and MIDA.Joy heat pumps, you are opting for the technically advanced solution of full inverter technology. With this technology, the compressor speed adjusts continuously from 20 - 95 Hz (depending on the model) exactly to the required cooling or heating demand. Compared to conventional heat pumps, this effective control achieves particularly energy-saving and material-friendly operation with a high seasonal performance factor. The heat pumps also operate very quietly. When starting up, the inverter technology requires only 1/3 of the time compared to conventional systems.

Compared to conventional heat pumps, MIDA.Maxx, MIDA.Boost, MIDA.Force and MIDA.Joy heat pumps have a higher COP value and require a much shorter start-up time. This saves costs.

What are the additional benefits of full inverter technology?



- ✓ Stepless control
- ✓ Longer service life (heat pump rarely runs at full load)
- ✓ Shorter heat pump start-up curve
- ✓ Significantly lower start-up currents
- ✓ Very quiet running
- ✓ improved COP values





HEAT PUMPS



Environmentally friendly refrigerant R32

FULL-INVERTER HEAT PUMP MIDA.MAXX

EXKLUSIVE MIDAS



ENERGY-SAVING



6 Years warranty
on Mitsubishi compressor



With protective housing for the display

Inclusive
WiFi ADAPTER



#2603

SPECIAL FEATURES

- Available in sizes from 14-31 kW
- COP value up to 12.70
- Operating range from -15°C to +43°C
- Pool volume up to approx. 120 m³ (depending on size)
- Housing made of high-quality stainless steel V2A/AISI 304
- Infinitely variable control - separate silent mode possible (e.g. at midday or in the evening)
- Operating modes: heating, cooling, automatic
- Automatic defrosting device
- With titanium heat exchanger, ideal for salt water and chlorine



- Operating modes: heating, cooling, automatic
- With 5" colour touchscreen LCD display
- Including winter cover
- Including flow switch- max. water temperature (operation) up to +43°C
- Refrigerant R32- pressure gauge
- Electrical protection: slow-blow fuse (C-automatic), RCD 30 mA < 0.1s

Accessories see from catalogue page 151

*As the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. There is a calculation aid for this, which we will be happy to provide on request. Simply scan the QR code!



EXECUTIONS MIDA.MAXX

Typ	MIDA.Maxx 14	MIDA.Maxx 17	MIDA.Maxx 21	MIDA.Maxx 25	MIDA.Maxx 31	
Air outlet	vertical	vertical	vertical	vertical	vertical	
Pool volume*	max. ca. 60 m ³	max. 75 m ³	max. 85 m ³	max. ca. 100 m ³	max. ca. 120 m ³	
Water flow rate (recommended)	5,7 m ³ /h	7,1 m ³ /h	7,13 m ³ /h	9,0 m ³ /h	12,0 m ³ /h	
Water connection	50 mm right	50 mm right	50 mm right	50 mm right	50 mm right	
Measuring conditions Air temperature 27°C* Water temperature 26°C	Heating output	3,66 - 13,48 kW 12,4 - 45,8 kBtu/h	3,41 - 16,83 kW 11,6 - 57,2 kBtu/h	5,1 - 21,6 kW 17,34 - 73,44 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	0,43-4,29 kW	0,39-3,67 kW	0,57-5,08 kW
	Operating current	1,74-8,37 A	1,5-11,1 A	3 x 0,99 - 5,1 A	3 x 0,9 - 6,1 A	3 x 1,2 - 8,2 A
	COP	6,99-13,35	6,64-12,99	5,03-11,86	6,6-17,19	6,14-15,65
Measuring conditions Air temperature 15°C* Water temperature 26°C	Heating output	2,67-10,0kW 9,1 - 34 kBtu/h	2,72-12,72 kW 9,2 - 43,2 Btu/h	3,9-16,3 kW 13,09 - 55,42 Btu/h	4,05 - 18,79 kW 13,7 - 63,9 kBtu/h	6,55 - 23,6 kW 22,3 - 80,2 kBtu/h
	Input power	0,43-2,01 kW	0,42-2,86 kW	0,59-3,82 kW	0,57-3,71 kW	0,79-4,73 kW
	Operating current	1,89-8,73A	2,0-11,1 A	3 x 1,20-6.10 A	3 x 1,2 - 6,1 A	3 x 1,6-7,7 A
	COP	4,98-6.19	5,3-6,77	4,27-6.53	5,06-7,1	5,0-8,23
min. Water temperature	+8°C	+8°C	+8 C	+8°C	+8°C	
Fuse protection	16 A	16 A	3 x 16 A	3 x 16 A	3 x 16 A	
Voltage/ Frequency range	230V/1 pH 20-75 Hz	230V/1 pH 20-80 Hz	400V/3 pH 20-70 Hz	400V/3 pH 20-85 Hz	400V/3 pH 20-80 Hz	
Compressor Brand	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	
Compressor	rotating	rotating	rotating	rotating	rotating	
Number of fans	1	1	1	1	1	
Cable cross-section	3 x 2,5 mm ²	3 x 2,5 mm ²	5 x 2,5 mm ²	5 x 2,5 mm ²	5 x 2,5 mm ²	
Sound pressure level ¹	24-34 dB(A)	26-36 dB(A)	28-38dB(A)	30-40 dB(A)	33-43 dB(A)	
Sound pressure level ²	44-54 dB(A)	46-56 dB(A)	48-58 dB(A)	50-60 dB(A)	53-62 dB(A)	
Protection class	IPX4	IPX4	IPX4	IPX4	IPX4	
Refrigerant quantity	R32/0,65 kg	R32/0,8 kg	R32/1,35 kg	R32/1,65 kg	R32/1,8 kg	
GWP-value	675	675	675	675	675	
Displacement Display	possible	possible	possible	possible	possible	
Refrigerant	R32	R32	R32	R32	R32	
Net dimensions W x D x H	723 x 835 x 865 mm	723 x 835 x 865 mm	770 x 990 x 970 mm	790 x 990 x 970 mm	920 x 960 x 1025 mm	
Delivery dimensions W x D x H	773 x 885 x 915 mm	773 x 885 x 915 mm	820 x 1040 x 1000 mm	820 x 1040 x 1000 mm	970 x 1010 x 1075 mm	
Net weight	69 kg	75 kg	95 kg	106 kg	116 kg	
Delivery weight	82 kg	88 kg	110 kg	121 kg	130 kg	
Article number	3140	3141	3145	3142	3143	

Water heating, solar & dehumidification
04



#3145



*This heat pump already fulfils the technical requirements for operation with renewable energies (photovoltaics, solar, etc.).

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



FULL-INVERTER HEAT PUMP MIDA.BOOST



Environmentally friendly refrigerant R32

- EXCLUSIVE MIDAS
- ENERGY-SAVING



6 Years warranty on Mitsubishi compressor



With protective housing for the display

Inclusive Wi-Fi ADAPTER



#3130 + #3131

SPECIAL FEATURES

- Available in sizes from 12 - 29 kW
- COP value up to 13.57
- Operating range from -15°C to +43°C
- Pool volume up to approx. 120 m³ (depending on size)
- Housing made of ABS plastic, colour: white
- Infinitely variable control - separate silent mode possible (e.g. at midday or in the evening)



- Operating modes: heating, cooling, automatic
- Automatic defrosting system
- With titanium heat exchanger, excellent suitable for salt water and chlorine
- With 5" colour touchscreen LCD display
- Winter cover included
- Including flow switch
- Max. water temperature (operation) up to +43 °C
- R32 refrigerant pressure gauge
- Electrical protection: slow-blow fuse (C-Automat), RCD 30 mA < 0.1s



#2603



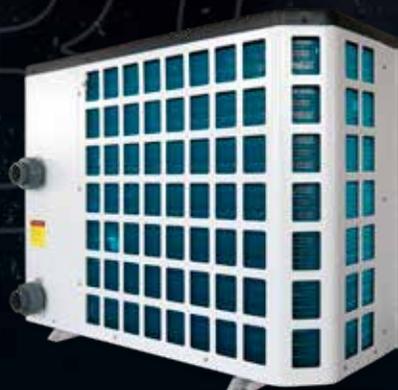
#3132 + #3133

*As the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. We are happy to provide you with a calculation aid for this purpose. Simply scan the QR code!

Accessories see from catalogue page 151

EXECUTIONS MIDA.BOOST

	Typ	MIDA.Boost 12	MIDA.Boost 18	MIDA.Boost 24	MIDA.Boost 29
	Air outlet	horizontal	horizontal	horizontal	horizontal
	Pool volume*	max. ca. 60 m ³	max. ca. 75 m ³	max. ca. 85 m ³	max. ca. 120 m ³
	Water flow rate (recommended)	4,2 m ³ /h	5,3 m ³ /h	8,6 m ³ /h	10 m ³ /h
	Water connection	50 mm backside	50 mm backside	50 mm backside	50 mm backside
Measuring conditions Air temperature 27°C** Water temperature 26°C	Heating output	2,85 – 12 kW/ 9,69 – 40,8 kBtu/h	3,77 – 17 kW/ 12,58 – 57,8 kBtu/h	5,7 – 24,2 kW/ 19,38 – 82,38 kBtu/h	6,7 – 28,3 kW/ 22,78 – 96,22 kBtu/h
	Input power	0,21 – 2,12 kW	0,3 – 3,02 kW	0,46 – 4,8 kW	0,54 – 5,57 kW
	Operating current	0,95 – 9,2 A	1,3 – 13,1 A	3 x 2,3 – 8,5 A	3 x 1,52–8,19 A
	COP	5,66 – 13,57	5,63 – 12,57	5,04 – 12,39	5,08 – 12,41
	Heating output	2,25 – 9,7 kW/ 7,65 – 32,98 kBtu/h	2,92 – 12,4 kW/ 9,93 – 42,16 kBtu/h	4,68 – 19,9 kW/ 15,91 – 67,66 kBtu/h	5,46 – 23,3 kW/ 18,56 – 79,22 kBtu/h
Measuring conditions Air temperature 15°C* Water temperature 26°C	Input power	0,32 – 2,08 kW	0,44 – 2,86 kW	0,72 – 4,74 kW	0,83 – 5,49 kW
	Operating current	1,4 – 9 A	2 – 12,4 A	3 x 1,8 – 8 A	3 x 1,55–7,76 A
	COP	4,66 – 7,03	4,34 – 6,64	4,2 – 6,5	4,24 – 6,58
	min. Water temperature	+8 °C	+8 °C	+8 °C	+8 °C
	Fuse protection	16 A	16 A	3 x 16 A	3 x 16 A
Voltage/ Frequency range	230 V/1 pH 20–70 Hz	230 V/1 pH 20–85 Hz	400 V/3 pH 20–70 Hz	400 V/3 pH 20–85 Hz	
Compressor Brand	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	
Compressor	rotating	rotating	rotating	rotating	
Number of fans	1	1	2	2	
Cable cross-section	3 x 2,5 mm ²	3 x 2,5 mm ²	5 x 2,5 mm ²	5 x 2,5 mm ²	
Sound pressure level ¹	22–32 dB(A)	24–33 dB(A)	26–37 dB(A)	26–38 dB(A)	
Sound pressure level ²	42–52 dB(A)	44–53 dB(A)	46–57 dB(A)	48–58 dB(A)	
Protection class	IPX4	IPX4	IPX4	IPX4	
Refrigerant quantity	R32/0,6 kg	R32/0,8 kg	R32/1,2 kg	R32/1,5 kg	
GWP-value	675	675	675	675	
Displacement Display	possible	possible	possible	possible	
Refrigerant	R32	R32	R32	R32	
Net dimensions W x D x H	1046 x 453 x 768 mm	1161 x 490 x 862 mm	1161 x 470 x 1274 mm	1161 x 470 x 1274 mm	
Delivery dimensions W x D x H	1130 x 480 x 780 mm	1210 x 510 x 880 mm	1210 x 495 x 1300 mm	1210 x 495 x 1300 mm	
Net weight	65 kg	75 kg	117 kg	120 kg	
Delivery weight	80 kg	90 kg	137 kg	137 kg	
Article number	3130	3131	3132	3133	



*This heat pump already fulfils the technical requirements for operation with renewable energies (photovoltaics, solar, etc.).



1) Measured sound pressure level at 10 m (22 – 85 Hz)

2) Measured sound pressure level at 1 m (22 – 85 Hz)

* at 70 % air humidity

**at 80 % humidity



**FULL-INVERTER
HEAT PUMP MIDA.FORCE**



Environmentally friendly
refrigerant R32



6 Years warranty
on Mitsubishi compressor

Inclusive
WiFi ADAPTER



#2603

SPECIAL FEATURES

- Available in sizes from 7-20 kW
- COP value up to 11.25
- Operating range from -10°C to +40°C
- Pool volume up to approx. 95 m³ (depending on size)
- Housing made of ABS plastic Colour: black
- Infinitely variable control
- Max. water temperature (operation) up to +43 °C
- Refrigerant R32
- pressure gauge
- Electrical protection: slow-blow fuse (C-automatic), residual current circuit breaker 30 mA < 0.1s
- With protective housing for the display



- Operating modes: heating, cooling, automatic
- Automatic defrosting device- With titanium heat exchanger, ideal for salt water and chlorine
- With 4.7" glass touch LED display B/W
- Including winter cover- Including flow switch

Accessories see from catalogue page 151

*As the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. There is a calculation aid for this, which we will be happy to provide on request. Simply scan the QR code!



EXECUTIONS MIDA.FORCE

Typ	MIDA.Force 7	MIDA.Force 12	MIDA.Force 17	MIDA.Force 20
Air outlet	horizontal	horizontal	horizontal	horizontal
Pool volume*	max. ca. 35 m ³	max. ca. 60 m ³	max. ca. 75 m ³	max. ca. 95 m ³
Water flow rate (recommended)	2,4 m ³ /h	3,0 m ³ /h	4,9 m ³ /h	6 m ³ /h
Water connection	50 mm back side			
Measuring conditions Air temperature 27°C** Water temperature 26°C	Heating output	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
Measuring conditions Air temperature 15°C* Water temperature 26°C	Heating output	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	+8 °C
Fuse protection	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	rotierend	rotierend	rotierend	rotierend
Number of fans	1	1	1	1
Cable cross-section	3 x 2,5 mm ²			
Sound pressure level ¹	19-29 dB(A)	22-32 dB(A)	24-33 dB(A)	24-34 dB(A)
Sound 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 quantity	675	675	675	675
GWP-value	möglich	möglich	möglich	möglich
Displacement Display	R32/0,35 kg	R32/0,48 kg	R32/0,6 kg	R32/0,67 kg
Net dimensions W x D x H	1000 x 418 x 605 mm	1000 x 418 x 605 mm	1046 x 435 x 767 mm	1160 x 490 x 862 mm
Delivery dimensions W x D x H	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
Article number	3120	3121	3122	3123



***This heat pump already fulfils the technical requirements for operation with renewable energies (photovoltaics, solar, etc.).**

1) Measured sound pressure level at 10 m (20 – 85 Hz) 2) Measured sound pressure level at 1 m (20 – 85 Hz) *at 70 % air humidity ** at 80 % humidity



FULL-INVERTER HEAT PUMP MIDA.JOY

EXCLUSIVE MIDAS

ENERGY-SAVING



Environmentally friendly refrigerant R32



PV-Ready!*

6 Years warranty
on Mitsubishi compressor



OPTIONAL
WiFi ADAPTER



SPECIAL 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 Colour: grey
- Infinitely variable control
- Max. water temperature (operation) up to +35 °C
- Refrigerant R32
- Pressure gauge
- Electrical protection: slow-blow fuse (C-automatic), residual current circuit breaker 30 mA < 0.1s

- Operating modes: heating, cooling, automatic
- Automatic defrosting device
- With titanium heat exchanger, ideal for salt water suitable for salt water and chlorine- with 4.7' glass touch LED display B/W
- Including winter cover- including flow switch

Accessories see from catalogue page 151

*As the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. There is a calculation aid for this, which we will be happy to provide on request. Simply scan the QR code!



EXECUTIONS MIDA.JOY

Typ	MIDA.Joy 7	MIDA.Joy 12	MIDA.Joy 17	
Air outlet	horizontal	horizontal	horizontal	
Pool volume*	max. ca. 35 m ³	max. ca. 60 m ³	max. ca. 75 m ³	
Water flow rate (recommended)	2.4 m ³ /h	4.1 m ³ /h	5.2 m ³ /h	
Water connection	50 mm back side	50 mm back side	50 mm back side	
Measuring conditions Air temperature 27°C** Water temperature 26°C	Heating output	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
Measuring conditions Air temperature 15°C* Water temperature 26°C	Heating output	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	
Fuse protection	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 mm ²	3 x 2,5 mm ²	3 x 2,5 mm ²	
Sound pressure level ¹	19-29 dB(A)	22-32 dB(A)	24-33 dB(A)	
Sound pressure level ²	38-50 dB(A)	42-53 dB(A)	43-54 dB(A)	
Protection class	IPX4	IPX4	IPX4	
Refrigerant quantity	675	675	675	
GWP-value	possible	possible	possible	
Displacement Display	R32/0,35 kg	R32/0,45 kg	R32/0,6 kg	
Net dimensions W x D x H	1000 x 418 x 605 mm	1000 x 418 x 605 mm	1046 x 435 x 767 mm	
Delivery dimensions W x D x H	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	
Article number	3110	3111	3112	



*This heat pump already fulfils the technical requirements for operation with renewable energies (photovoltaics, solar, etc.).

1) Measured sound pressure level at 10 m (20 - 85 Hz)

2) Measured sound pressure level at 1 m (20 - 85 Hz)

* at 70 % air humidity

** at 80 % air humidity



HEAT PUMP MIDA.QUICK



PV-Ready!*

6 Years warranty
on Gree compressor
on Mitsubishi compressor
on Sanyo compressor



EXCLUSIVE MIDAS

ENERGY-SAVING

EXECUTIONS MIDA.QUICK

#2700, #2708, #2703, #2704, #2705

Typ	MIDA.Quick 4	MIDA.Quick 7	MIDA.Quick 10	MIDA.Quick 13	
Air outlet	horizontal	horizontal	horizontal	horizontal	
Pool volume*	max. approx 10 m³	max. approx 20 m³	max. approx 45 m³	max. approx. 60 m³	
Water flow rate (recommended)	1,5 m³/h	2,3 m³/h	4,5 m³/h	5,3 m³/h	
Water connection	50 mm backside	50 mm backside	50 mm backside	50 mm backside	
Measuring conditions Air temperature 24°C* Water temperature 26°C	Heating output	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	5,7 A	8,7 A	12,8 A
	COP	4,6	5,1	5,0	4,5
Measuring conditions Air temperature 15°C* Water temperature 26°C	Heating output	2,6 kW/ 8,9 kBtu/h	4,2 kW/ 14,2 kBtu/h	7,1 kW/ 24,2 kBtu/h	9,4 kW/ 32,1 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	
Fuse protection	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	
Sound pressure level ¹	35 dB(A)	38 dB(A)	40 dB(A)	40 dB(A)	
Sound pressure level ²	47 dB(A)	51 dB(A)	53 dB(A)	53 dB(A)	
Protection class	IPX4	IPX4	IPX4	IPX4	
Refrigerant quantity	2088	2088	2088	2088	
GWP-value	0,37 kg	0,6 kg	0,85 kg	1,0 kg	
Displacement Display	possible	possible	possible	possible	
Net dimensions W x D x H	811 x 305 x 583 mm	811 x 305 x 583 mm	974 x 385 x 605 mm	974 x 385 x 605 mm	
Delivery dimensions W x D x H	910 x 310 x 590 mm	910 x 310 x 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	37 kg	41 kg	60 kg	70 kg	
Article number	2700	2708	2703	2704	

*This heat pump already fulfils the technical requirements for operation with renewable energies (photovoltaics, solar, etc.).



SPECIAL FEATURES

- available in sizes from 4-26 kW
- COP value of 3.7 - 5.9
- Operating range from -5°C to +35°C
- Pool volume up to approx. 100 m³ (depending on size)



- Housing made of galvanised steel, colour: RAL 7016 anthracite grey- Operating modes: heating, cooling, automatic
- Automatic defrosting device
- With titanium heat exchanger, ideal for salt water and chlorine
- With LED display- Includes winter cover
- Includes flow switch
- Max. water temperature (operation) up to +40°C
- Refrigerant R410 A
- Pressure gauge
- Electrical protection: slow-blow fuse (C-automatic), RCD 30 mA < 0.1s

Water heating, solar & dehumidification
04

MIDA.Quick 17	MIDA.Quick 21	MIDA.Quick 26
horizontal	horizontal	horizontal
max. approx 95 m³	max. approx. 120 m³	max. approx 135 m³
6,0 m³/h	8,0 m³/h	7,9 m³/h
50 mm rückseitig	50 mm seitlich	50 mm seitlich
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	7,9 A
4,9	5,1	4,5
+8 °C	+8 °C	+8 °C
20 A	20 A	3 x 16 A
230 V/1 pH/50 Hz	230 V/1 pH/50 Hz	400 V/3 pH/50 Hz
Mitsubishi	Sanyo	Sanyo
rotating	rotating	rotating
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
2088	2088	2088
1,3 kg	2,6 kg	2,7 kg
possible	possible	possible
1134 x 475 x 845 mm	1120 x 475 x 1240 mm	1120 x 470 x 1240 mm
1230 x 495 x 855 mm	1200 x 490 x 1280 mm	1200 x 490 x 1280 mm
97 kg	103 kg	130 kg
111 kg	118 kg	140 kg
2705	2706	2707

Accessories see from catalogue page 151



*As the design of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. There is a calculation aid for this, which we will be happy to provide on request. Simply scan the QR code!



#2706, #2707

1) Measured sound pressure level at 10 m

2) Measured sound pressure level at 1 m

* at 60-70 % air humidity



HEAT PUMP MIDA.BLACK



PV-Ready!*

5 years warranty
on Gree-compressor
on Highly-compressor



VERSIONS OF MIDA.BLACK

#2950 #2951 #2952 #2953 #2954 #2955

Type	MIDA.Black 8	MIDA.Black 11	MIDA.Black 14	
Air outlet	horizontal	horizontal	horizontal	
Pool Volume*	max. 30 m³	max. 55 m³	max. 75 m³	
Water flow (recommended)	5,0 m³/h	6,0 m³/h	7,0 m³/h	
Connection	50 mm backside	50 mm backside	50 mm backside	
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	14,5 kW/ 49,5 kBtu/h
	Input power	1,36 kW	1,96 kW	2,29 kW
	Operating current	6,22 A	9,01 A	11,09 A
	COP	5,6	5,5	6,3
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	11,9 kW/ 40,6 kBtu/h
	Input power	1,21 kW	1,79 kW	2,22 kW
	Operating current	5,55 A	8,19 A	10,71 A
	COP	5,0	4,7	5,1
min. water temperature	+8 °C	+8 °C	+8 °C	
Safeguarding	16 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	
Compressor brand	Gree	Gree	Gree/Highly	
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	
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	
Refrigerant charge	0,75 kg	0,9 kg	1,0 kg	
Net dimensions B x T x H	970 x 360 x 585 mm	1045 x 370 x 625 mm	1110 x 416 x 711 mm	
Shipping dimensions B x T x H	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	

***This heat pump already meets the technical requirements for operation with renewable energies (photovoltaic, solar, etc.).**



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 Titaniumium 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

MIDA.Black 17	MIDA.Black 21	MIDA.Black 26
horizontal	horizontal	horizontal
max. 95 m ³	max. 120 m ³	max. 150 m ³
10,0 m ³ /h	12,0 m ³ /h	15,0 m ³ /h
50 mm backside	50 mm backside	50 mm seitlich
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
3 x 5,97 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
3 x 5,89 A	3 x 7,45 A	3 x 8,66 A
5,1	5,0	4,9
+8 °C	+8 °C	+8 °C
3 x 10 A	3 x 10 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
5 x 2,5 mm ²	5 x 2,5 mm ²	5 x 2,5 mm ²
41 dB(A)	42 dB(A)	42 dB(A)
59 dB(A)	60 dB(A)	60 dB(A)
IPX4	IPX4	IPX4
675	675	675
possible	possible	possible
incl. 10 m Cable	incl. 10 m Cable	incl. 10 m Cable
1,1 kg	1,45 kg	1,75 kg
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 1388mm
84 kg	100 kg	118 kg
97 kg	117 kg	136 kg
2953	2954	2955

For accessories see catalog page 151



*Since the version of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. There is a calculation aid for this, which we can provide on request. Simply scan the QR code!



MIDA.Black 26



HEAT PUMP MIDA.PUBLIC



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

EXCLUSIVE MIDAS

VERSIONS OF MIDA.PUBLIC

Typ	MIDA.Public 55	MIDA.Public 95	MIDA.Public 120	
Air outlet	vertical	vertical	vertical	
Pool Volume*	max. 250 m³	max. 440 m³	max. 550 m³	
Water flow (recommended)	25 m³/h	2,3 m³/h	35 m³/h	
Connection	63 mm	110 mm	110 mm	
HEATING Measurement conditions Air temperature 24°C* Water temperature 26°C	Heating power	55 kW / 187,7 kBtu/h	95 kW / 324,1 kBtu/h	120 kW / 409,4 kBtu/h
	Input power	9,65 kW / 32,93 kBtu/h	16,1 kW / 54,93 kBtu/h	21,8 kW / 74,38 kBtu/h
	Operating current	3 x 17,18 A	3 x 28,8 A	3 x 39 A
	COP	5,7	5,9	5,9
HEATING Measurement conditions Air temperature 15°C* Water temperature 29°C	Heating power	38 kW / 129,7 kBtu/h	62 kW / 211,5 kBtu/h	80 kW / 273 kBtu/h
	Input power	0,7 kW	0,97 kW	20,0 kW / 68,24 kBtu/h
	Operating current	3,0 A	4,21 A	3 x 35,8 A
	COP	3,7	4,3	5,1
COOLING Measurement conditions Air temperature 35°C* Water temperature 30°C	Cooling capacity	29,70 kW / 101,34 kBtu/h	37,25 kW / 127,09 kBtu/h	51,80 kW / 176,76 kBtu/h
	Consumed power	11,80 kW / 40,26 kBtu/h	17,75 kW / 60,56 kBtu/h	20,29 kW / 69,23 kBtu/h
	Operating current	3 x 20,26 A	3 x 35,32 A	3 x 35,28 A
	EER	2,52	2,10	2,55
	min. water temperature	+8 °C	+8 °C	+8 °C
	Safeguarding	3 x 23 A	3 x 40 A	3 x 46 A
	Voltage / frequency range	400 V / 3 pH / 50 Hz	400 V / 3 pH / 50 Hz	400 V / 3 pH / 50 Hz
	Compressor brand	Sanyo	Sanyo	Sanyo
	Compressor	2 x scroll	2 x scroll	2 x scroll
	Number of fans	2	3	3
Cable cross section	5 x 8 mm²	5 x 16 mm²	5 x 16 mm²	
Noise pressure level ²	60 dB(A)	61 dB(A)	62 dB(A)	
Schutzklasse	IPX4	IPX4	IPX4	
Refrigerant charge	2 x 2,5 kg	4 x 2,4 kg	2 x 6,5 kg	
Alternative placement display	possible	possible	possible	
Net dimensions B x T x H	1448 x 730 x 1060 mm	2180 x 1080 x 1930 mm	2180 x 1080 x 1930 mm	
Shipping dimensions B x T x H	1630 x 810 x 1180 mm	2240 x 1200 x 2050 mm	2240 x 1200 x 2050 mm	
Net weight	260 kg	644 kg	622 kg	
Delivery weight	299 kg	712 kg	707 kg	
Code	2681	2682	2683	





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 Titaniumium heat exchanger, excellent suitable for salt water and chlorine
- with digital LCD display
- **included** water flow switch
- max. water temperature +43 °C
- refrigerant R410A
- RS485 connection port (centralized control)
- pressure gauge

Wasserwärmung,
Solar & Entfeuchter
04

MIDA.Public 145

MIDA.Public 190

vertical	vertical
max. 650 m ³	max. 850 m ³
42 m ³ /h	60 m ³ /h
110 mm	110 mm
145 kW / 494,7 kBtu/h	190 kW / 648,3 kBtu/h
25,4 kW / 86,66 kBtu/h	32,8 kW / 111,91 kBtu/h
3 x 45,4 A	3 x 58,6 A
5,71	5,79
90 kW / 307, kBtu/h	125 kW / 426,5 kBtu/h
29,4 kW / 100,31 kBtu/h	30,8 kW / 105,09 kBtu/h
3 x 42,0 A	3 x 55,1 A
5,1	5,2
59,56 kW / 203,23 kBtu/h	95,80 kW / 326,85 kBtu/h
27,45 kW / 93,66 kBtu/h	37,88 kW / 129,25 kBtu/h
3 x 51,71 A	3 x 75,34 A
2,17	2,53
+8 °C	+8 °C
3 x 55 A	3 x 82 A
400 V / 3 pH / 50 Hz	400 V/3 pH/50 Hz
Copeland	Copeland
2 x scroll	4 x scroll
2	2
5 x 25 mm ²	5 x 35 mm ²
63 dB(A)	67 dB(A)
IPX4	IPX4
2 x 8,0 kg	4 x 6,0 kg
possible	possible
2180 x 1080 x 2060 mm	2180 x 1080 x 2060 mm
2330 x 1220 x 2200 mm	2240 x 1220 x 2120 mm
664 kg	891 kg
709 kg	964 kg
2684	2685

For accessories see catalog page 151

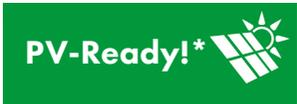


*Since the version of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. There is a calculation aid for this, which we can provide on request. Simply scan the QR code!

*This heat pump already meets the technical requirements for operation with renewable energies (photovoltaic, solar, etc.).



HEAT PUMP MIDA.COOL



EXCLUSIVE MIDAS



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

VERSIONS OF MIDA.COOL

Typ	MIDA.Public 55	MIDA.Public 95	MIDA.Public 120
Air outlet	vertical	vertical	vertical
Pool Volume*	max. 190 m³	max. 350 m³	max. 450 m³
Water flow (recommended)	10 m³/h	20 m³/h	25 m³/h
Connection	63 mm	90 mm	110 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	105.0 kW / 357.0 kBtu/h
	Input power 9.5 kW / 32.3 kBtu/h	18.4 kW / 62.56 kBtu/h	21.6 kW / 73.44 kBtu/h
	Operating current 3,5 A	5,7 A	3 x 39 A
	COP 4,6	5,1	5,9
HEATING 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	80 kW / 273 kBtu/h
	Input power 0,7 kW	0,97 kW	20,0 kW / 68,24 kBtu/h
	Operating current 3,0 A	4,21 A	3 x 35,8 A
	COP 3,7	4,3	5,1
COOLING Measurement conditions Air temperature 43°C* Water temperature 32°C	Cooling capacity 29,70 kW / 101,34 kBtu/h	37,25 kW / 127,09 kBtu/h	51,80 kW / 176,76 kBtu/h
	Consumed power 11,80 kW / 40,26 kBtu/h	17,75 kW / 60,56 kBtu/h	20,29 kW / 69,23 kBtu/h
	Operating current 3 x 20,26 A	3 x 35,32 A	3 x 35,28 A
	EER 2,52	2,10	2,55
min. water temperature	+8 °C	+8 °C	+8 °C
Refrigerant	R407C	R407C	R407C
Safeguarding	3 x 23 A	3 x 40 A	3 x 46 A
Voltage / frequency range	400 V / 3 pH / 50 Hz	400 V / 3 pH / 50 Hz	400 V / 3 pH / 50 Hz
Compressor brand	Sanyo	Sanyo	Sanyo
Compressor	2 x scroll	2 x scroll	2 x scroll
Number of fans	2	3	3
Cable cross section	5 x 8 mm²	5 x 16 mm²	5 x 16 mm²
Noise pressure level ²	60 dB(A)	61 dB(A)	62 dB(A)
Schutzklasse	IPX4	IPX4	IPX4
Refrigerant charge	2 x 2,5 kg	4 x 2.4 kg	2 x 6,5 kg
Alternative placement display	possible	possible	possible
Net dimensions W x T x H	1448 x 730 x 1060 mm	2180 x 1080 x 1930 mm	2180 x 1080 x 1930 mm
Shipping dimensions W x T x H	1630 x 810 x 1180 mm	2240 x 1200 x 2050 mm	2240 x 1200 x 2050 mm
Net weight	260 kg	644 kg	622 kg
Delivery weight	299 kg	712 kg	707 kg
Code	2690	2691	2692

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 Titaniumium heat exchanger, excellent suitable for salt water and chlorine
- with digital LCD display
- **included** water flow switch
- max. water temperature +43 °C
- refrigerant R410A
- RS485 connection port (centralized control)
- pressure gauge

For accessories see catalog page 151



*Since the version of the heat pump depends on several factors, the current heat requirement should generally be determined beforehand. There is a calculation aid for this, which we can provide on request. Simply scan the QR code!

*This heat pump already meets the technical requirements for operation with renewable energies (photovoltaic, solar, etc.).

MIDA.Public 145	MIDA.Public 190
vertical	vertical
max. 650 m ³	max. 750 m ³
40 m ³ /h	60 m ³ /h
110 mm	110 mm
160.0 kW / 544.0 kBtu/h	210.0 kW / 714.0 kBtu/h
34.2 kW / 116.28 kBtu/h	44.8 kW / 152.32 kBtu/h
3 x 45,4 A	3 x 58,6 A
5,71	5,79
90 kW / 307, kBtu/h	125 kW / 426,5 kBtu/h
29,4 kW / 100,31 kBtu/h	30,8 kW / 105,09 kBtu/h
3 x 42,0 A	3 x 55,1 A
5,1	5,2
59,56 kW / 203,23 kBtu/h	95,80 kW / 326,85 kBtu/h
27,45 kW / 93,66 kBtu/h	37,88 kW / 129,25 kBtu/h
3 x 51,71 A	3 x 75,34 A
2,17	2,53
+8 °C	+8 °C
R407C	R407C
3 x 55 A	3 x 82 A
400 V / 3 pH / 50 Hz	400 V/3 pH/50 Hz
Copeland	Copeland
2 x scroll	4 x scroll
2	2
5 x 25 mm ²	5 x 35 mm ²
63 dB(A)	67 dB(A)
IPX4	IPX4
2 x 8,0 kg	4 x 6,0 kg
possible	possible
2180 x 1080 x 2060 mm	2180 x 1080 x 2060 mm
2330 x 1220 x 2200 mm	2240 x 1220 x 2120 mm
664 kg	891 kg
709 kg	964 kg
2693	2694

2) measured sound pressure level at 1 m

* at 60-70% humidity

* at 59,2% humidity



WIFI ADAPTER FOR HEAT PUMPS



WIFI-ADAPTER

FOR MOBILE MONITORING AND CONTROL OF HEAT PUMPS



Location-independent heat pump control with your smartphone, tablet PC or PC with internet access. Control your heat pump with the various MIDAS apps and find out about important parameters

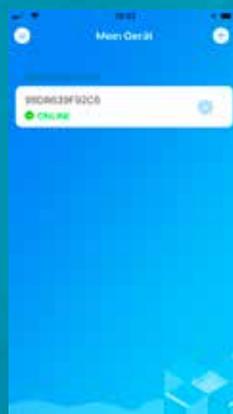
such as the current water temperature, operating status or other indicators and save energy. The apps are available free of charge from the Google Play Store (Android) or the Apple App Store (iOS).



#2603
#2609



Aqua Temp App



Article	Code
WIFI adapter for inverter heat pumps	2603
WIFI adapter for ON/OFF heat pumps	2609

Also for retrofitting.



ACCESSORIES FOR HEAT PUMPS



CONNECTION MODULE FOR LINK-TOUCH

Required as an accessory for the temperature control of the heat pump via Link-Touch (see catalogue page 260). The connection is made between the circuit board and the display via the heat pump's contact plug. Suitable for: MIDA.Maxx (from 2020 series), MIDA.Boost, MIDA.Force and MIDA. JoyNote: **Cannot** be connected at the same time as the WiFi module.

Article	Code
Verbindungsstecker	3601



#3601



BYPASS SET FOR HEAT PUMPS

Scope of delivery consisting of the following individual parts:

- 3 x PVC-U ball valve d 50 mm
- 2 x PVC-U T-piece d 50 mm
- 6 x PVC-U pipe d 50 mm à 15 cm
- 1 x Griffon PVC adhesive WDF-05 125 ml
- 1 x Griffon cleaner can 125 ml
- 2 x Hose clamp St. vz. 32-50 mm
- 2 x Hose nozzle 50 mm Adhesive x 38 mm spigot

The individual parts are supplied loose (**not** glued, the complete set is practically packed together in a cardboard box).

Article	Code
Bypass set for heat pumps - 50 mm	2600



#2600



PRO CLEAN

HEAT PUMP CLEANER

Gentle cleaner, acid-free, for most surfaces with a strong cleaning effect, no rinsing necessary. For removing dirt and deposits, removes mechanical grease, insects, dirt particles, dust and weather-related soiling.

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, stainless steel splash showers, outdoor showers or the edges of stainless steel pools.

Article	VPE	Code
400 ml Spray	12	8048



#8048



HEAT PUMP ACCESSORIES



#2670-E40



#3000-E32



#2670-E41



#3000-E33

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

WINTER COVERS FOR HEAT PUMPS



Winter cover for	Dimensions (W x D x H)	Material	Code
MIDA.Maxx 14	800 x 750 x 750 mm	PET 80 gr/m ² >1 mm	2633
MIDA.Maxx 17	800 x 750 x 750 mm	PET 80 gr/m ² >1 mm	2633
MIDA.Maxx 21	787 x 827 x 887 mm	PET 80 gr/m ² >1 mm	2634
MIDA.Maxx 25	787 x 827 x 887 mm	PET 80 gr/m ² >1 mm	2634
MIDA.Maxx 31	920 x 960 x 910 mm	PET 80 gr/m ² >1 mm	2635
MIDA.Boost 12	1100 x 440 x 750 mm	PET 80 gr/m ² >1 mm	2624
MIDA.Boost 18	1190 x 470 x 850 mm	PET 80 gr/m ² >1 mm	2625
MIDA.Boost 24	1190 x 495 x 1275 mm	PET 80 gr/m ² >1 mm	2626
MIDA.Boost 29	1190 x 495 x 1275 mm	PET 80 gr/m ² >1 mm	2626
MIDA.Force 7	1030 x 410 x 595 mm	PET 80 gr/m ² >1 mm	2631
MIDA.Force 12	1030 x 410 x 595 mm	PET 80 gr/m ² >1 mm	2631
MIDA.Force 17	1100 x 440 x 750 mm	PET 80 gr/m ² >1 mm	2624
MIDA.Force 20	1110 x 440x 750 mm	PET 80 gr/m ² >1 mm	2632
MIDA.Joy 7	1030 x 410 x 595 mm	PET 80 gr/m ² >1 mm	2631
MIDA.Joy 12	1030 x 410 x 595 mm	PET 80 gr/m ² >1 mm	2631
MIDA.Joy 17	1100 x 440 x 750 mm	PET 80 gr/m ² >1 mm	2624
MIDA.Quick 4	800 x 300 x 580 mm	PET 80 gr/m ² >1 mm	2627
MIDA.Quick 7	800 x 300 x 580 mm	PET 80 gr/m ² >1 mm	2627
MIDA.Quick 10	1000 x 400 x 630 mm	PET 80 gr/m ² >1 mm	2628
MIDA.Quick 13	1000 x 400 x 630 mm	PET 80 gr/m ² >1 mm	2628
MIDA.Quick 17	1140 x 455 x 840 mm	PET 80 gr/m ² >1 mm	2629
MIDA.Quick 21	1200 x 500 x 1300 mm	PET 80 gr/m ² >1 mm	2630
MIDA.Quick 26	1200 x 500 x 1300 mm	PET 80 gr/m ² >1 mm	2630

SOLAR ABSORBER

MIDA.SUNNY SOLAR ABSORBER



ENERGY-
SAVING

EXCLUSIVE
MIDAS

High-quality solar absorbers for free heating of the pool water through UV radiation with high efficiency. The CoEx process used in production results in a two-layer material structure of the absorber with different material properties. This results in high stability and weather resistance, as well as permanent UV resistance, which guarantees the longevity of the swimming pool absorber. The material can be walked on and is

frost-proof (draining in winter or frost-proof in combination with antifreeze). The solar absorber surface should be at least 55% of the pool surface. The heating depends on the pool size, running time, desired water temperature, utilisation period, climatic conditions and wind conditions, as well as the use of a pool cover.

SPECIAL ADVANTAGES:

- Made of UV-resistant PE-HD with a max. temperature of +65°C (absorption)- No soot particles that can appear in the pool years later in the pool after years
- One model with 8 connections for all applications (vertical or horizontal, on the edge or in the centre)
- Quick installation due to large format, fewer connections and only two fixing points per absorber on the profile rail
- Minimal pressure loss of 0.003 bar - only absorber in the CoEx process



#42000

MOUNTING OPTIONS



Roof mounting



Freestanding



Open space installation

Technical data

Installation	horizontal or vertical
Connections	4x 40 mm and 4x 25 mm
Pressure loss	0,003 bar with 200 l/h
Flow rate	120-180 l/h
Max. Pressure	3 bar
Operating pressure	1 bar
Surface area	2,2 m ²
Dimensions	200 cm x 111 cm x 1,5 cm
Weight	14 kg

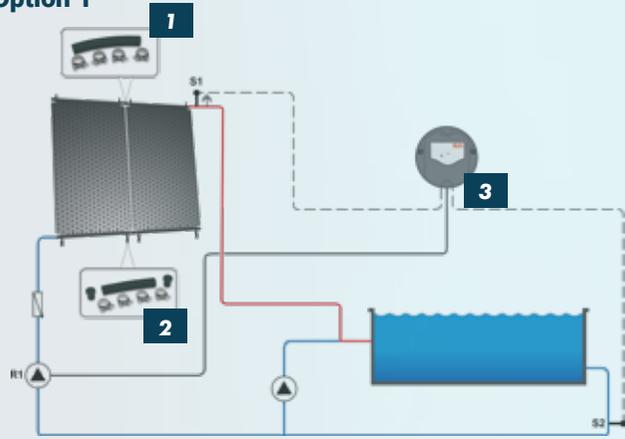
Article	Code
MIDA.Sunny solar absorber	42000



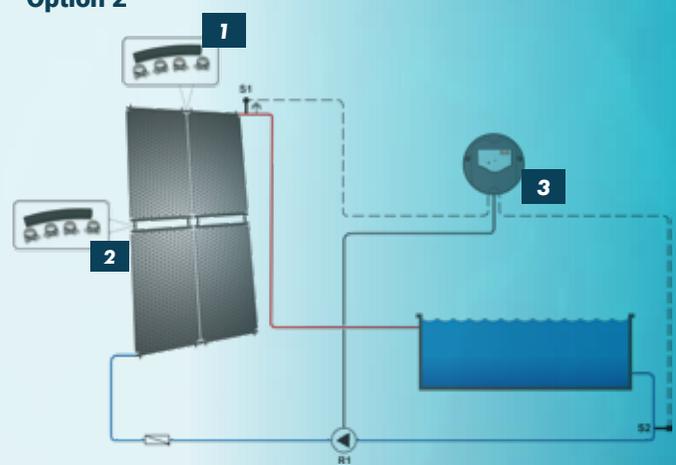
INSTALLATION

- 1 Connection set 40 mm (#42010)
- 2 End cap set 25 mm (#42012)
- 3 Temperature difference control 230V (#42030)

Option 1



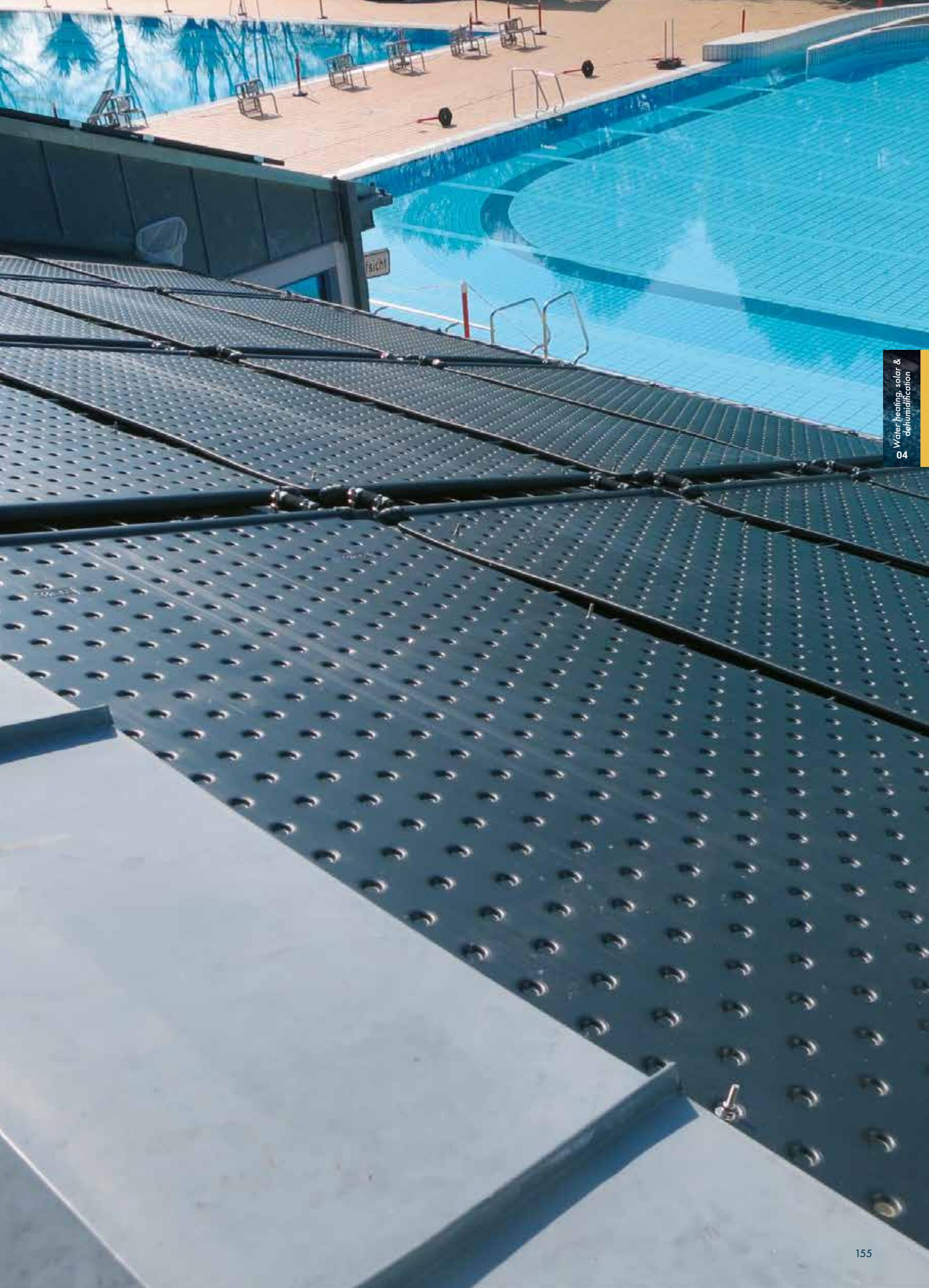
Option 2



MIDA.SUNNY MOUNTING ACCESSORIES



Article	Code
Hose clamp for 25 mm	42014
Hose clamp for 40 mm	42013
Connection for mounting rails 300 x 35 x 15 mm	42022
Connection set 25 mm for 2 connections	42011
End plug set 25 mm for 2 connections	42012
Connection set 40 mm for 2 connections	42010
Stainless steel fixing anchor universal	42023
Aluminium mounting rail short 1,110 x 40 x 20 mm	42021
Connection set 50 mm, including drainage and ventilation	42001
Long aluminium mounting rail 2,230 x 40 x 20 mm	42020
Fabric hose 25 mm, length: 5m	42016
Fabric hose 40 mm, length: 5m	42015
Temperature difference control 230V, including 2 temperature sensors	42030





HEAT EXCHANGER

For fast and flexible heating: A heat exchanger is used to transfer heat energy from one medium to another without mixing the two media. The heat exchanger can be easily installed in the existing installation. All models can be installed on electrically operated boilers, boilers fuelled with

firewood, pellets or oil, heat pumps and solar systems and can be connected to them. The design and materials used for the heat exchangers allow them to be used in a wide variety of pool systems.



PLATE HEAT EXCHANGER SCREWED AT LOW TEMPERATURE 55°C FLOW

These plate heat exchangers are designed for heating bath water with hot water. Thanks to the large exchange surface, they are ideal for low-temperature heating systems such as solar systems, geothermal systems, heat pumps and similar alternative and innovative heating systems.

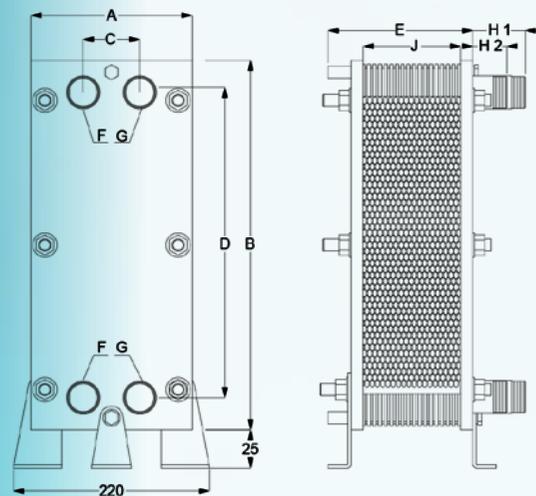
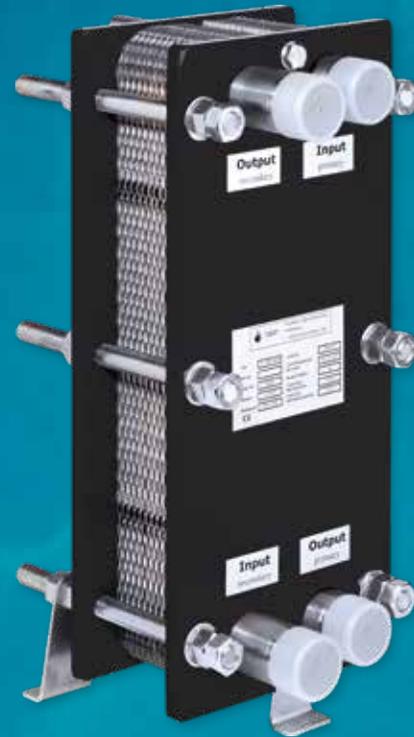
Available in stainless steel V4A/AISI 316 or titanium version.
Installation direction: horizontal and vertical

Note on corrosion prevention:
The following water values must not be exceeded:

Stainless steel V4A/AISI 316	Chloride content:	max. 500 mg/l
	Free chlorine:	max. 1 mg/l
	pH:	max. 6,8 - 7,8
Titan:	Chloride content:	max. 3000 mg/l
	Free chlorine:	unlimited
	pH:	max. 6,8 - 7,8
	Salt:	max. 3,5 %

If these limit values are not observed, the heat exchanger may be destroyed by corrosion.

Attention: Sterilisation devices must always be installed downstream of the heat exchanger in such a way that no chemicals or gases can enter the heat exchanger even during downtimes.



Version	A	B	C	D	E	H1/F	H2/G	J
32 kW	200 mm	460 mm	69 mm	380 mm	110 mm	1 1/4" x 50 x 40	1 1/4"/42 mm	26,5 mm
55 kW	200 mm	460 mm	69 mm	380 mm	110 mm	1 1/4" x 50 x 40	1 1/4"/42 mm	38 mm
75 kW	200 mm	460 mm	69 mm	380 mm	110 mm	1 1/4" x 50 x 40	1 1/4"/42 mm	49,5 mm
100 kW	200 mm	460 mm	69 mm	380 mm	170 mm	1 1/4" x 50 x 40	1 1/4"/42 mm	61 mm
120 kW	200 mm	460 mm	69 mm	380 mm	170 mm	1 1/4" x 50 x 40	1 1/4"/42 mm	72,5 mm

Technical information	32 kW		55 kW		75 kW		100 kW		120 kW	
	Stainless steel	Titan								
Material sheets	V4A/AISI 316	Titan								
Material threaded rods	V2A/AISI 304									
Heat output	32 kW		55 kW		75 kW		100 kW		120 kW	
Primary on/off	55/37,5 °C		55/36,5 °C		55/34,5 °C		55/35,5 °C		55/34 °C	
Secondary on/off	20/37,2 °C		20/37,6 °C		20/36 °C		20/38,8 °C		20/37,5 °C	
Heat output	23 kW		40 kW		54 kW		70 kW		84 kW	
Primary on/off	45/32,5 °C		45/31,6 °C		45/30,3 °C		45/31,5 °C		45/30,4 °C	
Secondary on/off	20/32,5 °C		20/33 °C		20/31,5 °C		20/33,2 °C		20/32 °C	
Primary flow rate	1,6 m³/h		2,6 m³/h		3,2 m³/h		4,5 m³/h		5 m³/h	
Secondary flow rate	1,6 m³/h		2,7 m³/h		4 m³/h		4,6 m³/h		6 m³/h	
Primary pressure loss	0,17 bar		0,2 bar		0,14 bar		0,21 bar		0,19 bar	
Secondary pressure loss	0,18 bar		0,23 bar		0,28 bar		0,23 bar		0,28 bar	
Calculation basis secondary	20 °C									
Swimming pool installation	Bypass									
Number of discs	9		13		17		21		25	
Surface area	0,29 m²		0,45 m²		0,62 m²		0,78 m²		0,94 m²	
Max. operating temperature	90 °C									
Max. operating pressure	10 bar									
Unladen weight	25 kg	24 kg	27 kg	25 kg	28 kg	26 kg	29 kg	27 kg	31 kg	29 kg
Inner frame distance (see dimension J)	26,5 mm		38 mm		49,5 mm		61 mm		72,5 mm	
Frame material	Structural steel S235JR, painted in black									
Seals bonded NBRHT	max. 150 °C									
Code	920	925	921	926	922	927	923	928	924	929

Water heating, solar & dehumidification
04





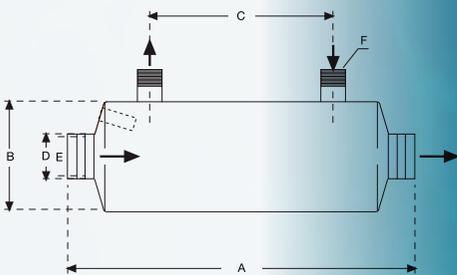
HEAT EXCHANGER VOLLTITAN*

Water heat exchanger made of solid titanium, ideally suited for heating bathing water with high disinfection requirements, such as brine pools, salt electrolysis or seawater, 90/60°C.

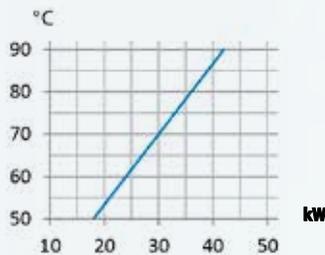
- Operating pressure: max. 10 bar on the heating side, max. 3 bar on the bath water side
- Heating by boiler, solar collectors or other hot water sources
- Installation direction: horizontal and vertical

The following water values **must not** be exceeded, otherwise corrosion will occur.

Titan: Chloride content: max. 3000 mg/l
 pH: max. 6,8 - 7,8
 Salt: max. 3,5%

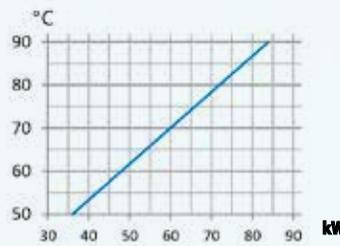


Version	A (mm)	B (Ø)	C (mm)	D (mm)	E (Zoll)	F (Zoll)
42 kW	385	125	205	NW/50	1 ½"	¾"
84 kW	680	125	495	NW/50	1 ½"	1"
126 kW	780	160	590	NW/60	2"	1"
154 kW	1050	160	820	NW/60	2"	1"



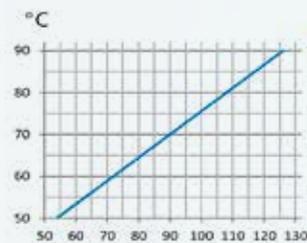
42 kW

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



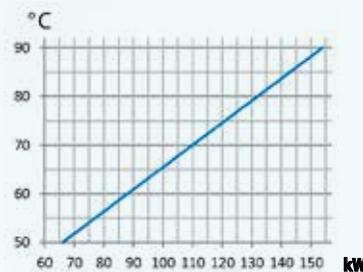
84 kW

90° = 84 kW
 80° = 72 kW
 70° = 60 kW
 60° = 48 kW
 50° = 36 kW



126 kW

90° = 126 kW
 80° = 108 kW
 70° = 90 kW
 60° = 72 kW
 50° = 54 kW



154 kW

90° = 154 kW
 80° = 132 kW
 70° = 110 kW
 60° = 88 kW
 50° = 66 kW

Heat output	Code
Rubber hose assembly kit NW 50 mm for Ø 125 mm	9HWT-H4
Rubber hose assembly kit NW 60 mm for Ø 160 mm	9HWT-H3
Pair of plastic brackets for Ø 125 mm	9HWT-H
Pair of plastic brackets for Ø 160 mm	9HWT-H2
36.120 kcal/h = 42 kW	9TWT-35
72.240 kcal/h = 84 kW	9TWT-65
108.360 kcal/h = 126 kW	9TWT-105
132.440 kcal/h = 154 kW	9TWT-115



HEAT EXCHANGER STAINLESS STEEL *

Made of acid-resistant stainless steel V4A/AISI 316, pickled and electropolished, outer casing with welded-in tube coil and immersion nozzle for electronic temperature measurement, 90/60°C.

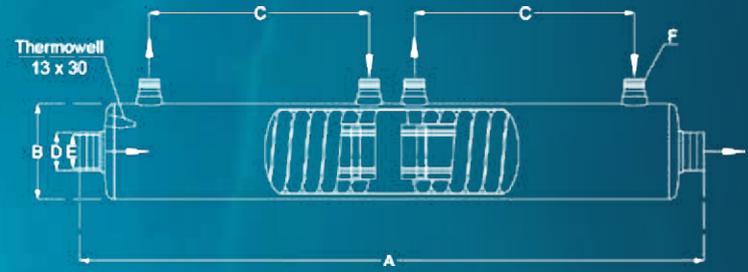
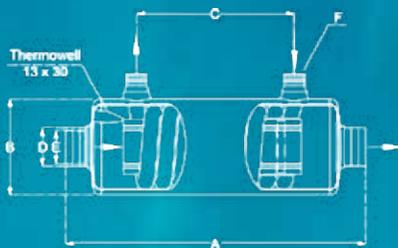
- * Operating pressure: max. 10 bar on the heating side, max. 3 bar on the bath water side
- * Heating by boiler, solar collectors or other hot water sources
- * Installation direction: horizontal and vertical

The following water values must not be exceeded, otherwise corrosion will occur.

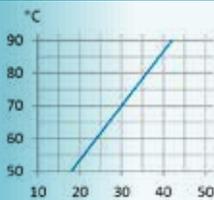
Stainless steel V4A/AISI 316:
 Chloride content: max. 500 mg/l
 Free chlorine: max. 1 mg/l
 pH: max. 6,8 - 7,8

42 kW/84 kW/133 kW

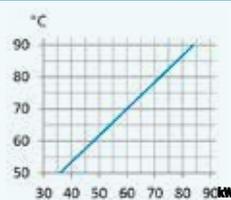
175 kW/259 kW



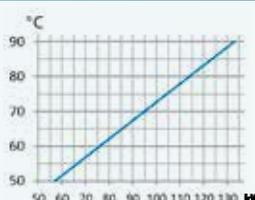
Ausführung	A (mm)	B (Ø)	C (mm)	D (mm)	E (Zoll)	F (Zoll)
42 kW	385	125	205	NW/50	1 ½" IG	¾"
84 kW	680	125	495	NW/50	1 ½" IG	1"
133 kW	780	160	590	NW/63	2" IG	1"
175 kW	1050	160	370	NW/63	2" IG	1"
259 kW	1370	160	530	NW/63	2" IG	1"



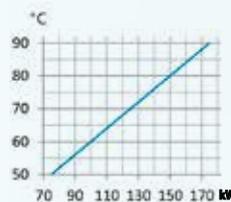
42 kW
 90° = 42 kW
 80° = 36 kW
 70° = 30 kW
 60° = 24 kW
 50° = 18 kW



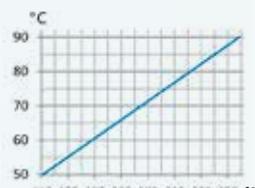
84 kW
 90° = 84 kW
 80° = 73 kW
 70° = 60 kW
 60° = 48 kW
 50° = 36 kW



133 kW
 90° = 133 kW
 80° = 114 kW
 70° = 95 kW
 60° = 76 kW
 50° = 57 kW



175 kW
 90° = 175 kW
 80° = 150 kW
 70° = 125 kW
 60° = 100 kW
 50° = 75 kW



259 kW
 90° = 259 kW
 80° = 222 kW
 70° = 185 kW
 60° = 148 kW
 50° = 111 kW



#9HWT-H4
 #9HWT-H3



#9HWT-H
 #9HWT-H2

Heat output	Code
Rubber hose assembly kit NW 50 mm for Ø 125 mm	9HWT-H4
Rubber hose assembly kit NW 60 mm for Ø 160 mm	9HWT-H3
Pair of plastic brackets for Ø 125 mm	9HWT-H
Pair of plastic brackets for Ø 160 mm	9HWT-H2
36.120 kcal/h = 42 kW	9HWT-40
72.240 kcal/h = 84 kW	9HWT-75
114.380 kcal/h = 133 kW	9HWT-105
150.500 kcal/h = 175 kW	9HWT-140
222.740 kcal/h = 259 kW	9HWT-209

* Supplied **without** bracket



HEAT EXCHANGER

PLASTIC/STAINLESS STEEL **OR** PLASTIC/TITANIUM *

Plastic water heat exchanger with stainless steel or corrugated titanium pipe.
Suitable for heating swimming pools, whirlpools and other facilities.

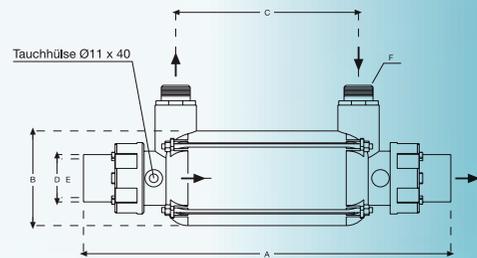
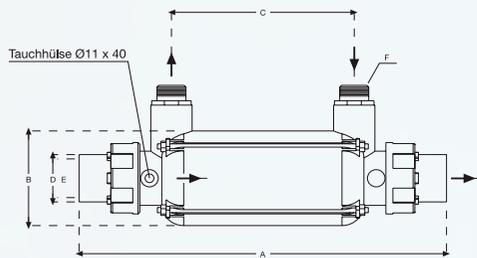
- Operating pressure: max. 6 bar on the heating side, max. 2.5 bar on the bath water side
- Temperature: max. 90°C
- Material housing: plastic polyamide 6.6, 30 % glass fibre reinforced, adhesive sleeve: ABS, O-rings: silicone
- Heating: bath water through boilers, solar systems, heat pumps or low temperature heating systems
- Installation direction: horizontal and vertical



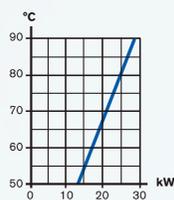
28 kW/46 kW



85 kW/108 kW

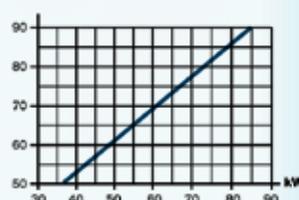


Version	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (Zoll)
28 kW/95,5 kBtu/h	345	110	135	63	50	3/4"
46 kW/157,0 kBtu/h	415	110	205	63	50	3/4"
85 kW/290,0 kBtu/h	705	110	495	63	50	1"
108 kW/368,5 kBtu/h	1015	110	805	63	50	1"



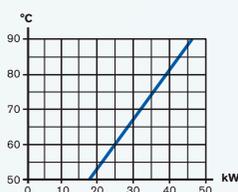
28 kW

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



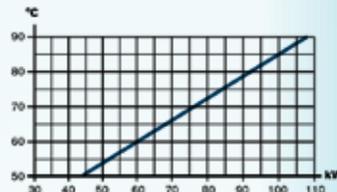
85 kW

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



46 kW

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



108 kW

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

MODEL PLASTIC/STAINLESS STEEL

Heat output	Code
28.000 kcal/h = 28 kW	9KWT-VA28
46.000 kcal/h = 46 kW	9KWT-VA46
85.000 kcal/h = 85 kW	9KWT-VA85
108.000 kcal/h = 108 kW	9KWT-VA108
Pair of plastic holders	9HWT-H

MODEL PLASTIC/TITANIUM

Heat output	Code
28.000 kcal/h = 28 kW	9KWT-TI28
46.000 kcal/h = 46 kW	9KWT-TI46
85.000 kcal/h = 85 kW	9KWT-TI85
108.000 kcal/h = 108 kW	9KWT-TI108
Pair of plastic holders	9HWT-H

* Supplied without bracket

HEAT EXCHANGER HI-FLOW

Suitable for pools up to 300 m³. 1 ½" internal thread on secondary side, 1" external thread on primary side
 • horizontal installation direction

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



Including
MOUNTS

FEATURES:

- Max. pressure secondary circuit (swimming pool water) 8 bar
- Primary circuit (hot water) 30 bar
- Acid-resistant stainless steel V4A/AISI 316L
- Coil for heat medium
- Sensor compartment
- Adjustable brackets made of acid resistant stainless steel
- Resistant stainless steel
- Four output levels: 13, 28, 40 and 75 kW
- Connection to boiler, heat pump, solar system or other existing heat sources

MODEL HI-FLOW TITANIUM

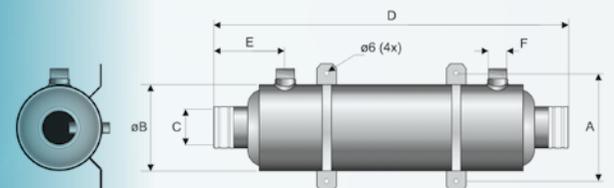


Including
MOUNTS

FEATURES:

- Max. pressure secondary circuit (pool water) 5 bar
- Primary circuit (hot water) 10 bar
- Titanium coil for heat medium
- Sensor compartment
- Adjustable brackets made of acid-resistant stainless steel
- Three output levels: 28, 40 and 75 kW
- Connection to boiler, heat pump, solar system or other existing heat sources

Dimensions	A	B	C	D	E	F
HI-Flow 13 stainless steel	139 mm	129 mm	1 ½"	235 mm	72 mm	¾"
HI-Flow 28 stainless steel	139 mm	129 mm	1 ½"	407 mm	75 mm	¾"
HI-Flow 40 stainless steel	139 mm	129 mm	1 ½"	455 mm	85 mm	1"
HI-Flow 75 stainless steel	139 mm	129 mm	2"	702 mm	85 mm	1"
HI-Flow 28 Titan	139 mm	113 mm	1 ½"	470 mm	95 mm	1"
HI-Flow 40 Titan	139 mm	127 mm	1 ½"	510 mm	108 mm	1"
HI-Flow 75 Titan	139 mm	127 mm	1 ½"	754 mm	108 mm	1"



Article	Power kw	Primary side, hot water		Secondary side, cold water		Code
		l/min	Pressure drop mWs	l/min	Pressure drop mWs	
HI-Flow HF 13 stainless steel	13	25	0,90	200	0,60	958
HI-Flow HF 28 stainless steel	28	25	1,70	300	1,60	959
HI-Flow HF 40 stainless steel	40	60	1,30	300	1,60	960
HI-Flow HF 75 stainless steel	75	60	2,60	300	1,10	961
HI-Flow T 28 Titan	28	20	1,00	300	1,10	11332
HI-Flow T 40 Titan	40	40	2,30	350	1,70	11333
HI-Flow T 75 Titan	75	45	5,20	350	1,70	11334

BRACKET FOR HEAT EXCHANGER

Set consisting of 2 x (a) + 2 x (b), for heat exchanger type/model HI-FLOW.



Article	Code
Bracket for heat exchanger	940-H

Water heating, solar & dehumidification
04



HEAT EXCHANGER HI-TEMP

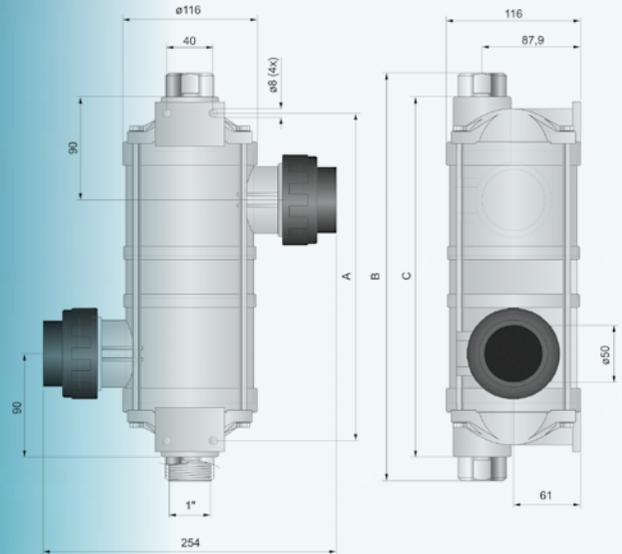
Housing made of glass fibre reinforced plastic, heating element made of acid-resistant stainless steel V4A/AISI 316 or titanium, adhesive connection for Ø 50 mm pipe, including holder.

Model in stainless steel: colour blue

Model in titanium: colour beige

- Max. temperature: +100°C
- Operating pressure: flow max. 5 bar
- Return: max. 4 bar
- For swimming pools up to 300 m³
- Installation direction: horizontal and vertical

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 Titan	417 mm	375 mm	335 mm
Hi-Temp 75 Titan	667 mm	625 mm	585 mm



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

MODEL HI-TEMP IN TITANIUM



Including MOUNTS



Including MOUNTS

FEATURES:

- Outer casing made of thermoplastic material
- Hot water register made of acid-resistant stainless steel
- Integrated wall mounting
- Slip connections for bonding Ø 50 mm pipes
- Connection to boiler, heat pump, solar thermal system or other heat source

FEATURES:

- Outer casing made of thermoplastic material
- Hot water coil made of titanium
- Integrated wall mounting
- Slip connections for bonding Ø 50 mm pipes
- Connection to boiler, heat pump, solar thermal system or other heat source

Article	Capacity		Primary side, hot water		Secondary side, cold water		Code
	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
Hi-Temp 75 Stainless steel	75	260	43	6	300	1,7	963
Hi-Temp 40 Titanium	40	135	52	1,5	300	1,1	962-T
Hi-Temp 75 Titanium	75	260	58	2,5	300	1,2	963-T

ELECTRIC HEATERS 230V and 400V WITH DIGITAL DISPLAY

In accordance with the electrical safety standards **EN 60335-1:2001+A1+A2 and EN 60335-2-35:2002+A1**.
Housing made of thermoplastic reinforced with fiberglass, the desired pool temperature can be conveniently set and the current temperature read off using the LED display.
Overheating protection, heating element made of Incoloy 825, flow monitor, adhesive connection d 50 mm, PVC pipework.
Minimum flow rate 90 l/min, maximum pressure: 2 bar.
Suitable for swimming pools up to 100 m³

- Housing made of polyamide (glass fibre reinforced)
- Capacity 3-15 kW- Supplied with contactors and electronics
- Digital control and display- Heating elements made of Incoloy 825
- Equipped with overheating limit switch and flow monitor
- Dual built-in protection- Protection class IP44

Titanium version on request

Length	Heat output	Ampere 230 V	Ampere 400 V	Code
425 mm	3 kW	–	5	910
425 mm	3 kW	13	–	915
425 mm	6 kW	26	–	916
425 mm	6 kW	–	9	911
607 mm	9 kW	–	13	912
607 mm	12 kW	–	18	913
607 mm	15 kW	–	22	914

Including brackets



Water heating, solar & dehumidification
04

ELECTRIC HEATER 230V AND 400V COMPACT MODEL

Housing made of acid-resistant stainless steel V4A/AISI 316, heating coil made of Incoloy 825, pressure switch as low-water safety device 230/400 V, Overheating thermostat and control thermostat 0-45°C, 3-way fuse: Pressure switch, overheating thermostat, control thermostat 0-45°C, 1½" internal thread. Minimum flow rate 85 l/min. Maximum pressure: 4 bar
Suitable for swimming pools up to 100 m³.

FEATURES:

- Housing made of stainless steel V4A/AISI 316
- Capacity 3-18 kW
- Electric heater made of thermoplastic reinforced with fibreglass
- Horizontal installation, eliminates air build-up and damage to the electric heating element damage to the electric heating element
- Incoloy 825 heating elements- Equipped with overheat protection and flow switch
- Supplied with sturdy brackets- Sealing glands for Ø 50 mm pipes

Including brackets



Length	Heat output	Ampere 230 V	Ampere 400 V	Code
452,5 mm	3 kW	8	5	930-DS
452,5 mm	6 kW	15	9	931-DS
552,5 mm	9 kW	23	14	932-DS
552,5 mm	12 kW	31	18	933-DS
552,5 mm	15 kW	38	22	934-DS
552,5 mm	18 kW	46	27	935-DS



ELECTRIC HEATER 230V AND 400V PLASTIC & INCOLOY

Electric heater made of thermoplastic for increased strength. Heating element made of Incoloy 825. Supplied with a thermostat for setting the pool temperature as well as overheating protection and flow monitor. Minimum flow rate 90 l/min. Maximum pressure: 2.5 bar. Suitable for swimming pools up to 100 m³.



FEATURES:

- Plastic housing
- Capacity 3-18 kW
- Electric heater made of thermoplastic reinforced with fiberglass
- Horizontal installation, eliminates air accumulation and damage to the electric heating element.
- Heating elements made of Incoloy 825
- Equipped with overheat protection and flow switch
- Supplied with sturdy brackets - for easy and flexible installation
- Gasket fittings for Ø 50 mm pipes - for easy installation

Length	Heat output	Ampere 230 V	Ampere 400 V	Code
358 mm	3 kW	8	5	901
358 mm	6 kW	15	9	902
540 mm	9 kW	23	14	903
540 mm	12 kW	31	18	904
540 mm	15 kW	38	22	905
540 mm	18 kW	46	27	906



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 functionality and quality.

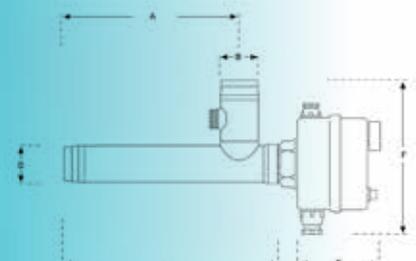


CHARACTERISTICS:

- Max. pressure: 3 bar
- Control thermostat 0-40°C
- Safety thermostat 55°C
- Mounting direction horizontal and vertical

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

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



SWIMMING POOL DEHUMIDIFIER

MIDA.AIR DRY 400, 500



Model	MIDA.Air DRY 400			MIDA.Air DRY 500		
	Plastic	Sheet steel	Stainless steel V4A/AISI 316	Plastic	Sheet steel	Stainless steel V4A/AISI 316
Swimming pool surface	up to 45 m ² - ideal for small swimming pools or spa areas			up to 60 m ² - ideal for medium-sized swimming pools or spa areas		
Sound pressure level	Very quiet - 42 dB from a distance of 1 m			Very quiet - 44 dB from a distance of 1 m		
Electrical input power	700 W			1.000 W		
Heat output	1.900 W			3.500		
Dehumidification performance	max. 48 litres per day			max. 66 litres per day		
Air diffuser	600 m ³ /h			800 m ³ /h		
Pool safety light microLight LED	compatible (optional)			compatible (optional)		
Assembly	Wall mounting (floor mounting optionally possible with accessories)			Wall mounting (floor mounting optionally possible with accessories)		
Housing	✓	✓ RAL colours available on request	✓	✓	✓ RAL colours available on request	✓
Humidity controller	mechanical	digital + temperature controller	digital + temperature controller	mechanical	digital + temperature controller	digital + temperature controller
Humidity display	-	yes + temperature	yes + temperature	-	yes	yes
Display calibration	-	yes	yes	-	yes	yes
Accuracy	+/- 5 %	+/- 1 %	+/- 1 %	+/- 5 %	+/- 1 %	+/- 1 %
Dimensions (W x H x D)	780 x 660 x 255 mm	780 x 642 x 300 mm	780 x 642 x 300 mm	1.245 x 660 x 255 mm	1.245 x 642 x 300 mm	1.245 x 642 x 300 mm
Weight	40 kg	50 kg	50 kg	60 kg	77 kg	77 kg
Code	M400 K	M400 S	M400 E	M500 K	M500 S	M500 E

Available in RAL colours at no extra charge, please specify RAL code when ordering.



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



MIDA.Air DRY 400, 500 Sheet steel



MIDA.Air DRY 400, 500 plastic (acrylate),
colour: white

Water heating, solar & dehumidification
04



MIDA.AIR DRY 800



Humidity can lead to serious problems if it is not controlled. The ideal value is around 55 - 65 %. A humidity level of over 70 % can be recognised by fogged windows and walls. This is also an excellent environment for the growth of mould and bacteria. Below 45 %, on the other hand, leads to dry air and possible damage to the mucous membranes. With the help of our dehumidifiers, you can maintain a comfortable humidity level of 55 - 65 %. Power supply 230 V/50Hz.

Advantage: high degree of heat recovery!

- **Including** automatic defrost
- For ambient temperatures from +22°C to +35 °C



Digital display MIDA.Air Sheet steel or stainless steel



MIDA.Air DRY 800 sheet steel

#MS800 S



Model	MIDA.AIR DRY 800
Execution	Sheet steel
Swimming pool surface	up to 90 m ² , ideal for medium-sized to large swimming pools or spa areas
Sound pressure level	very quiet, 46 dB from a distance of 1 m
Electrical input power	1.600 W
Heat output	5.100 W
Dehumidification performance	max. 90 liters per day
Air diffuser	1.100 m ³ /h
Pool Security microLight LED	compatible (optional)
Assembly	Floor mounting (wall mounting optionally possible with accessories)
Housing	✓
Moisture controller	digital
Humidity display	yes
Display calibration	yes
Accuracy	+/- 1 %
Dimensions (W x H x D)	1.250 x 950 x 310 mm
Weight	100 kg
Code	M800 S



OPTIONAL ACCESSORIES MIDA.AIR

Optional accessories 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

Model	MIDA.AIR DRY 400			Code
Optional accessories MIDA.Air DRY 400	Plastic	Execution Stal plate	Stainless steel	
Air filter MIDA.Air DRY 400	✓	✓	✓	M400-F
Heating coil 3.5 kW, including solenoid valve for DRY 400 K with 230 V/5 A connection for external thermostat***	✓			M400-VK
Mobile floor console with 4 wheels for DRY 400 K, S + E	✓	✓	✓	M400-M
Wireless hygrostat (humidity and temperature)**	✓	✓	✓	M300
Heating coil 3.5 kW, including solenoid valve for DRY 400 S + E without 230 V/5 A connection, as thermostat already included***		✓	✓	M400-V
Rear wall mounting set for DRY 400 K*	✓			M400-W



#M400-M & #M500-M



#M400-W & #M500-W
(Front view)



#M400-W & #M500-W
(Rear view)



#M300

Model	MIDA.AIR DRY 500			Code
Optional accessories MIDA.Air DRY 400	Plastic	Execution Stal plate	Stainless steel	
Air filter MIDA.Air DRY 500	✓	✓	✓	M500-F
Heating coil 5.0 kW, including solenoid valve for DRY 500 K with 230 V/5 A connection for external thermostat***	✓			M500-VK
Mobile floor console with 4 wheels for DRY 500 K, S + E	✓	✓	✓	M500-M
Wireless hygrostat (humidity and temperature)**	✓	✓	✓	M300
Heating coil 5.0 kW, including solenoid valve for DRY 500 S + E without 230 V/5 A connection, as thermostat already included***		✓	✓	M500-V
Rear wall mounting set for DRY 500 K*	✓			M500-W

Model	MIDA.AIR DRY 800		Code
Optional accessories MIDA.Air DRY 800	Version Sheet steel		
Air filter MIDA.Air DRY 800	✓		M800-F
Wall mounting set for DRY 800 K*	✓		M800-W
Wireless hygrostat (humidity and temperature)**	✓		M300
Heating coil 7.0 kW, including solenoid valve for DRY 800***	✓		M800-V



Fig. shows rear wall installation

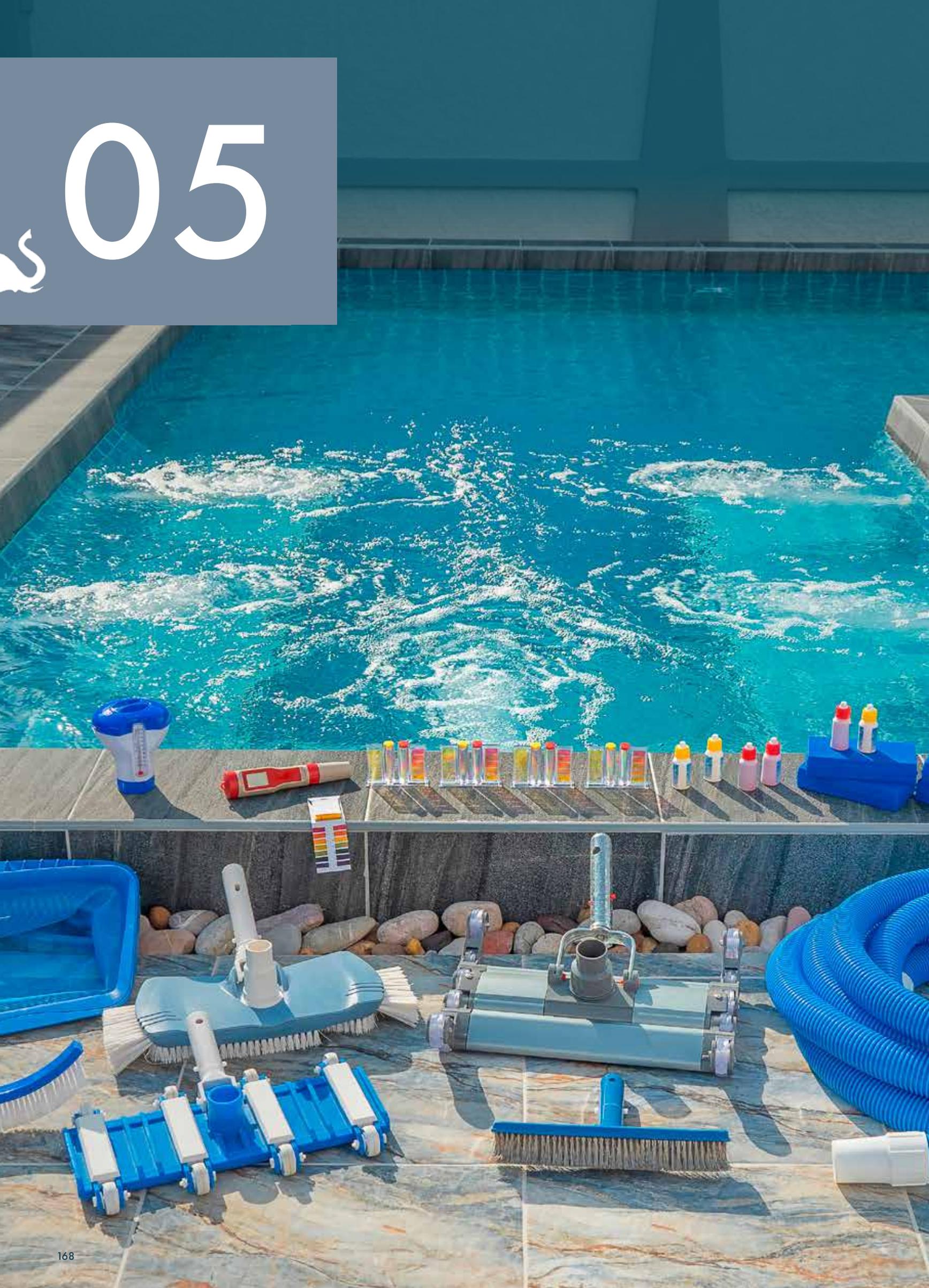
If ordered separately without a dehumidifier, we charge a 50% surcharge

* max. wall thickness 400 mm

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

***when ordering, please specify the position (left, right, top, rear)

05



POOL CLEANING



How would you like to clean your pool - fully automatically or manually? With our impressive Tigershark automatic pool cleaner, all options are open to you! Thanks to various cleaning programs, this robot will become a loyal pool cleaning companion and will make your pool shine like new.

In this section you will also find manual cleaning equipment to help pool owners maintain their pools. Our wide range of products also offers a selection of many other items to keep your pool clean and well maintained.

In addition to cleaning products, we also offer helpful winterization products in this section to prevent frost damage in winter and keep your pool in top shape all year round. Discover the variety and numerous benefits of our pool cleaning products today and make your pool the shining centerPiece of your garden!

Pool Cleaning
05

OVERVIEW



AUTOMATIC POOL CLEANERS

- P. 170 Tigershark
- P. 171 Accessories

CLEANING ACCESSORIES

- P. 172 Telescopic poles
- P. 173 Spiral hoses
- P. 174 Vacuum cleaner
- P. 175 Thermometer
- P. 176 Basin brushes
- P. 177 Landing net, Leaf net
- P. 179 Dosing float
- P. 180 Overwintering

POOLTESTER

- P. 181 Photometer
- P. 182 Electronic pool testers
- P. 182 Multi Pooltester
- P. 183 MIDA.Set pH & chlorine tester





TIGERSHARK®
AUTOMATIC POOL CLEANER

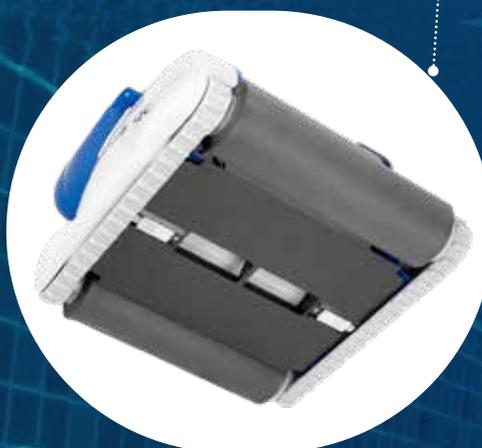
- Max. Pool size: 12 x 6 m
- Thanks to the microprocessor with ASCL control logic, the robot achieves the ideal cleaning program by calculating the size and shape of your pool
- Water-cooled motor ensures efficient, time- and energy-saving pool cleaning
- No bag or outer hose required
- 2 filter fields with precision up to 5µ
- Cleaning with a garden hose is also possible
- Easily removable dirt collection basket
- Powerful motor enables precise cleaning of your pool.
In conjunction with 2 filter fields, the robot vacuums up every last particle of dirt.
- Automatic switch-off at the end of the program

Safety systems: tranding system, dry-running protection,
 electronic protection of the motors

Surfaces: suitable for all surfaces

Cleaning programs: 2 automatic cleaning programs:

- Complete, 4-hour cleaning of the pool
- Floor - walls - waterline + a 90-minute quick clean



View from below

TECHNICAL DATA

Cleaning speed	18 m/min
Suction power	17 m ³ /hour
Dimensions (L x W x H)	28 x 41 x 41 cm
Weight	11,4 kg
Cleaned area	5 m ² /min
Capacity of the debris container	3 L
Power supply	220 V ; 50/60 Hz
Cable length	16,76 m
Working cycles	90 minutes or 4 hours.

Simple filter cleaning



Accessories see catalog page 171

Article	Code
TigerShark	158-20



ACCESSORIES: AUTOMATIC FLOOR CLEANER
TIGERSHARK®



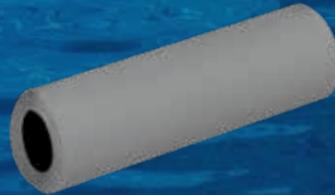
#158-20-E2



#158-20-E6



#158-20-E5
#158-20-E8



#158-20-E3



#158-20-E4

Article	Code
Transport trolley (caddy)	158-20-E2
Roller with foam brush	158-20-E3
Roller with plastic brush	158-20-E4
Standard filter cartridge	158-20-E5
Coarse filter cartridge	158-20-E8
Caterpillar track (chain)	158-20-E6

Pool Cleaning
05





TELESCOPIC POLES



TELESCOPIC POLE 2-PIECE VERSION



Anodized aluminium double tube, with eccentric, 2 sockets, wall thickness 0.8 mm, color: silver/beige

Article	Length in m	PU	Code
Telescopic Pole	1,80 - 3,60	20	210-TM
Telescopic Pole	2,40 - 4,80	10	220-TM

EXKLUSIV MIDAS



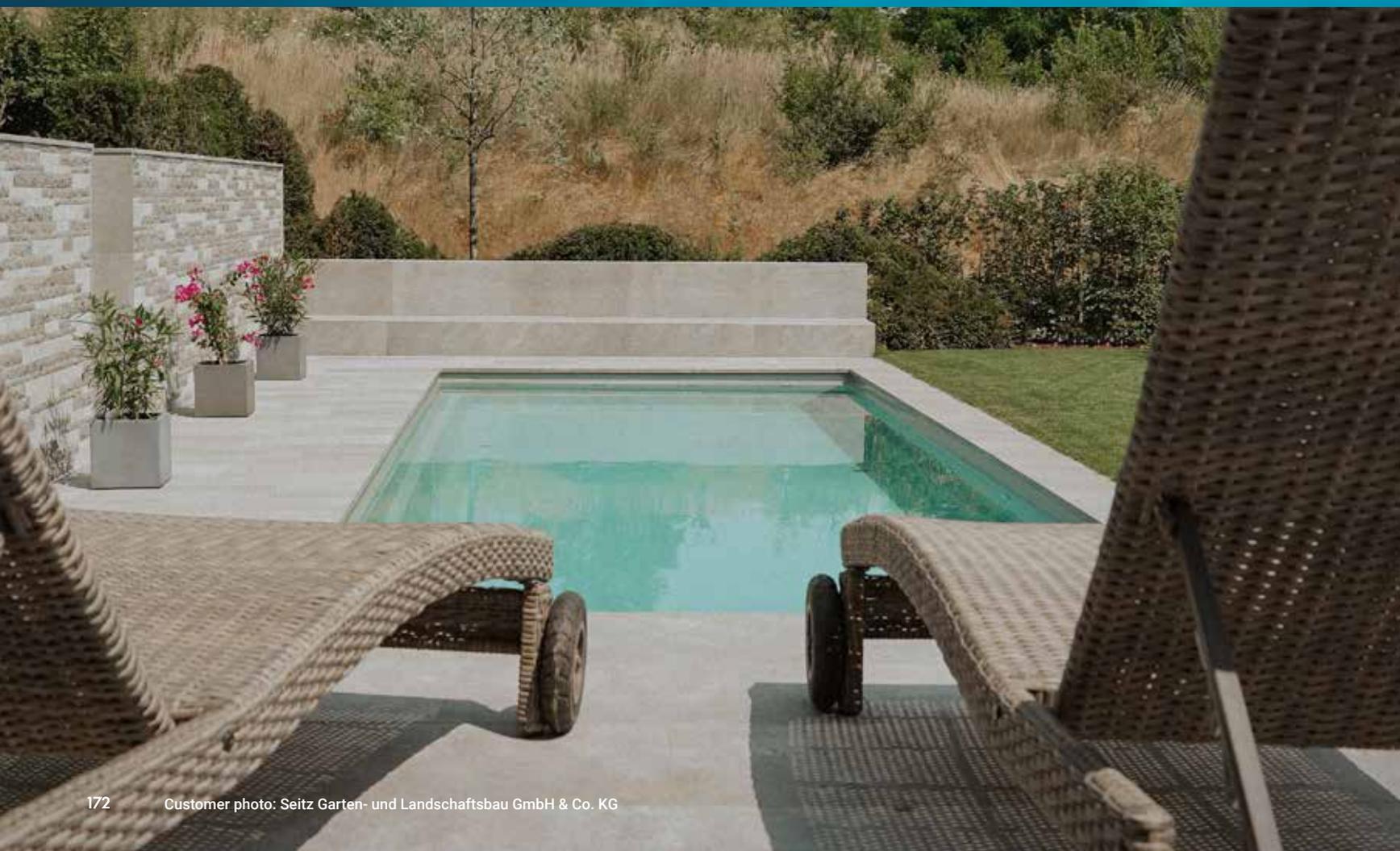
TELESCOPIC POLE 3-PIECE VERSION



Anodized aluminium double tube, with eccentric, 2 sockets, wall thickness: 0.8 mm, color: silver/beige

Article	Length in m	PU	Code
Telescopic Pole	1,20 - 3,60	20	3120-TS
Telescopic Pole	1,50 - 4,50	20	3150-TS

EXKLUSIV MIDAS



SPIRAL HOSES

LDPE-HOSE

Material: polyethylene, long-term resistant to salt water, chlorine, UV radiation, can be individually divided using molded sleeves. 50 m roll with molded sleeves every 0.5 m, flexible, color: black
 Application: vacuum cleaner, vacuum brush, swimming pool absorber

Article	Ø	PU	Code
LDPE hose	38 mm	8 rolls per pallet	170

Also available individually.



SWIMMING POOL HOSE

Material: polyethylene, high stability and flexibility, easy to lay, easy to split thanks to molded sleeves, tread-resistant, high chemical resistance.
 #169M Roll (100 m) with molded sleeves every 1.5 m, flexible
 #168 Roll (100 m) with molded sleeves every 1.1 m, flexible
 Application: vacuum cleaners and vacuum brushes, color: blue

Article	Ø	PU	Code
Swimming pool hose	38 mm	6 rolls per pallet	169M
Swimming pool hose	32 mm	5 rolls per pallet	168

Also available individually.



Pool Cleaning
05

SWIMMING POOL HOSE INCLUDING NOZZLES

EXKLUSIV MIDAS

Material: polyethylene, swimming pool hose with white sleeves at both ends, flexible, individual packaging: in cardboard box, color: blue/white

Article	Ø	Length	Code
Swimming pool hose	38 mm	7,5 m	8576
Swimming pool hose	38 mm	9 m	8577
Swimming pool hose	38 mm	12 m	8575
Swimming pool hose	38 mm	15 m	8578
Swimming pool hose	38 mm	30 m	8579



PVC SLEEVE FOR SWIMMING POOL HOSE

Material: ABS plastic
 Color: blue

Article	Code
Single socket for swimming pool hose, Ø 38 mm	6524



ZUBEHÖR

Article	Größe	Code
Hose connection	Ø 38 mm	02300
Hose extension	Ø 32-38 mm	02301
Hose connection	Ø 32-38 mm -1 ½" IG	6571





FLOOR VACUUM CLEANER



VENTURI VACUUM CLEANER



Material: ABS plastic, with three-part aluminum telescopic pole
L=135 cm, small simple suction cup with hose connection,
Color: blue

Article	PU	Code
Venturi vacuum cleaner	24	109



#109

EXKLUSIV MIDAS

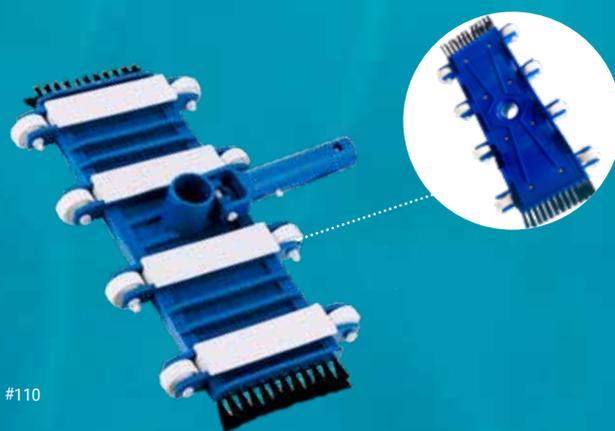


MIDA.SWEEP GROUND CLEANER



Material: ABS plastic, flexible with 8 wheels, width: 33 cm,
with 2 bottom and 2 side rows of brushes, 38 mm connection
Individual packaging: in foil,
Color: blue/white

Article	PU	Code
MIDA.Sweep	12	110



#110

EXKLUSIV MIDAS



MIDA.CLEAN VACUUM CLEANER



Material: ABS plastic, width: 29 cm, 8 brushes,
with 2 lower and 2 lateral rows of brushes,
heavy-duty design, 32/38 mm connection, swivel adapter,
Individual packaging: in foil,
Color: blue/white

Article	PU	Code
MIDA.Clean	12	113-N



#113-N

EXKLUSIV MIDAS

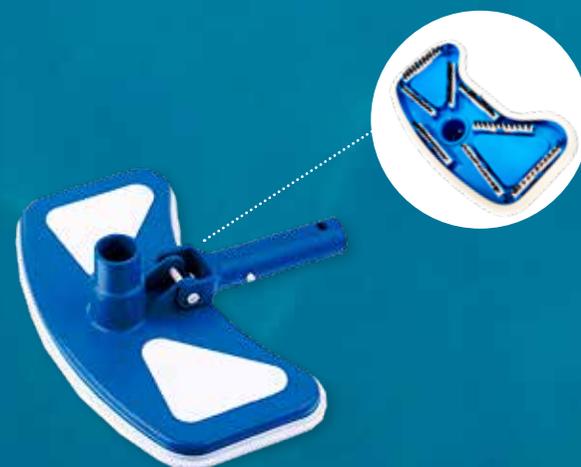


MIDA.VAC VACUUM CLEANER



Material: ABS plastic, width: 29 cm, 8 brushes, with brushes at the
bottom, without side brushes, connection 32/38 mm, swivel adapter
Individual packaging: in foil,
Color: blue/white

Article	PU	Code
MIDA.Vac	12	112-N



#112-N

EXKLUSIV MIDAS

THERMOMETER

MIDA.THERM THERMOMETER

EXKLUSIV MIDAS

Material: ABS plastic, for depth measurement (30 cm), with floating ring, Celsius & Fahrenheit scale, hi-tech welding, with fastening cord
 Individual packaging: in cardboard box,
 Color: blue
 Optional: individual logo possible from 1,000 Pieces.

Article	PU	Code
MIDA.Therm	20	062-N



#062-N

MIDA.LOOK THERMOMETER

EXKLUSIV MIDAS

Material: ABS plastic, hard-wearing model, temperature scale in Celsius and Fahrenheit, with floating head, length: 18.5 cm, with fastening cord, individual packaging: in box, color: blue

Article	PU	Code
MIDA.Look	28	068



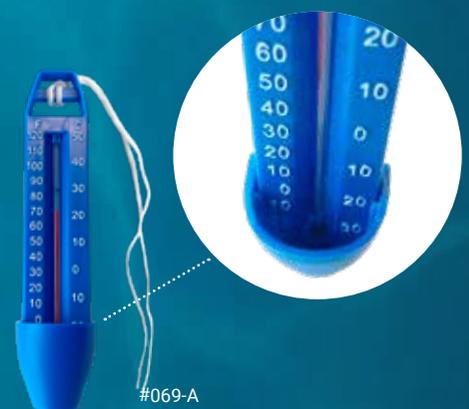
#068

MIDA.GRADE THERMOMETER

EXKLUSIV MIDAS

Material: ABS plastic, length: 17 cm, with scoop, with fastening cord, temperature in Celsius and Fahrenheit, Individual packaging: in foil, Color: blue

Article	PU	Code
MIDA.Grade	20	069-A



#069-A

ECONOMY THERMOMETER

EXKLUSIV MIDAS

Material: ABS plastic, length: 17 cm, temperature scale in Celsius and Fahrenheit, with fastening cord, Individual packaging: in foil, Color: white - blue

Article	PU	Code
Economy Thermometer	10	066



#066

Pool Cleaning
05



BASIN BRUSHES



MIDA.BRUSH BASKET BRUSH CURVED

Material: ABS plastic, width: 45 cm,
Individual packaging: in foil,
Color: blue with white bristles

Article	PU	Code
MIDA.Brush	24	145-A



#145-A

EXKLUSIV MIDAS



MIDA.BRUSH BASKET BRUSH CURVED ALUMINIUM

Material: aluminum or aluminum reinforcement,
complete aluminum frame, width: 45 cm,
Individual packaging: in foil,
Color: aluminum/blue with white bristles

Article	PU	Code
MIDA.Brush Aluminium	24	145-ALU



#145-ALU

EXKLUSIV MIDAS



MIDA.ALGAE ALGAE BRUSH

Material: ABS plastic, width: 26 cm,
with stainless steel bristles,
Individual packaging: in foil,
Color: blue

Article	PU	Code
MIDA.Algae	24	146-C



#146-C

EXKLUSIV MIDAS



BRUSH FOR CORNER



Material: ABS plastic, with adjustable vacuum ring
and connection for 38 mm hose,
Individual packaging: in foil,
Color: blue/white

Article	PU	Code
Brush for corner	24	146

EXKLUSIV MIDAS



#146



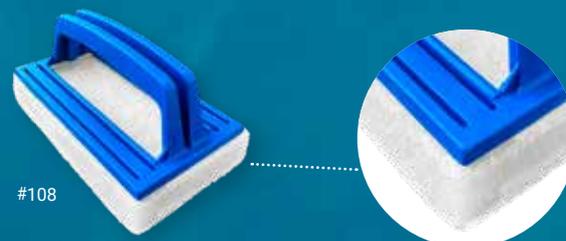
CLEANING SPONGE



Material: ABS plastic, ideal for removing algae and other soft residues
and other soft residues, individual packaging: in foil,
Color: blue

Article	PU	Code
Cleaning Sponge	60	108

EXKLUSIV MIDAS



#108

GROUND LANDING NET, LEAF NET

MIDA.CATCH FLOOR LANDING NET

EXKLUSIV MIDAS 

Material: ABS plastic, with white hard-wearing mesh,
Width: 40 cm, length: 27 cm,
Hard-shell packaging,
Color: blue

Article	PU	Code
MIDA.Catch	15	142



#142

MIDA.RAKE FLOOR LANDING NET

EXKLUSIV MIDAS 

Material: ABS plastic, with unbreakable aluminum frame and aluminum handle,
with white hard-wearing net,
width: 44 cm, length: 20 cm
Individual packaging: in foil (#141), hard-shell packaging (#141-ALU),
Color: silver/blue

Article	PU	Code
MIDA.Rake	24	141
MIDA.Rake	14	141-ALU



#141-ALU

MIDA.VARIO FLOOR LANDING NET

EXKLUSIV MIDAS 

Material: ABS plastic frame/aluminum handle,
with blue hard-wearing net,
Width: 45 cm, length: 20 cm,
Individual packaging: in foil,
Color: blue

Article	PU	Code
MIDA.Vario floor landing net	12	141VK



#141VK

MIDA.LEAF LEAF LANDING NET

EXKLUSIV MIDAS 

Material: unbreakable aluminum frame and aluminum handle/ABS plastic,
with white hard-wearing net,
Width: 31 cm, length: 35 cm,
Individual packaging: in foil,
Color: silver/blue

Article	PU	Code
MIDA.Leaf	24	143



#143

Pool Cleaning 05



ECO LEAF LANDING NET



Material: Frame and handle made of ABS plastic,
Width: 29 cm, length 43 cm,
Individual packaging: in foil,
Color: blue

Article	PU	Code
ECO Leaf landing net	24	139-A



#139-A



MIDA.SKIM LEAF LANDING NET



Material: ABS plastic, with white hard-wearing mesh
Width: 43 cm, length: 27 cm,
Individual packaging: in foil,
Color: blue

Article	PU	Code
MIDA.Skim	20	140



#140



MIDA.VARIO LEAF LANDING NET



Material: ABS plastic frame/aluminum handle,
with blue, deep and hard-wearing net,
Width: 35.5 cm, length: 32.5 cm,
Individual packaging: in foil,
Color: blue

Article	PU	Code
MIDA.Vario leaf landing net	12	143VK



#143VK



DOSING FLOAT

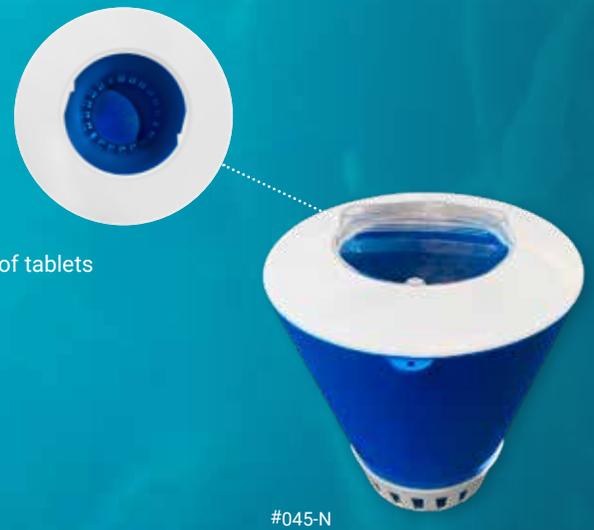


MIDA.FLOAT DOSING FLOAT



Dosing float with adjustment ring, large version, with transparent lid, holds up to 1 kg of tablets
 Material: ABS plastic,
 Diameter: 17 cm, opening: 9.5 cm,
 Individual packaging: in foil,
 Color: blue/white

Article	PU	Code
MIDA.Float	6	045-N



#045-N

EXKLUSIV MIDAS



MIDA.ORA DOSING FLOAT



Dosing float with adjustment ring, carries up to 1 kg of tablets
 Material: ABS plastic,
 Diameter: 17 cm,
 opening: 9.5 cm,
 Individual packaging: in foil,
 Color: blue/white

Article	PU	Code
MIDA.Ora	12	047-A



#047-A

EXKLUSIV MIDAS



MIDA.MINI DOSING FLOAT



Dosing float with adjustment ring, carries up to 1 kg of tablets
 Material: ABS plastic,
 Diameter: 13 cm,
 opening: 6 cm,
 Individual packaging: in foil,
 Color: blue/white

Article	PU	Code
MIDA.Mini	24	048-M



#048-M

EXKLUSIV MIDAS



Pool Cleaning
05



OVERWINTERING



ICE PRESSURE PAD



EXKLUSIV MIDAS

Pools should not be emptied during the winter months. Unfortunately, the formation of ice on the water surface can quickly lead to damage to the pool. Ice pressure pads provide protection here. Advantages: no more frost damage during winter storage of the pool, easy handling, quick installation and removal, suitable for any pool size and shape, no maintenance costs.

Fixing hooks **included**

Material: Polyethylene
Weight: 1.4 kg per Piece

Filling material: Quartz sand
Color: black



GIZMO WINTERIZING PLUGS



EXKLUSIV MIDAS

For frost protection of skimmers and the suction line. Material: polyethylene, weight: 0.11 kg per Piece, color: black

Dimensions	PU	Code
37 x 8 x 8 cm, 1½ AG + 2" AG	36	167



WINTERIZING PLUGS



EXKLUSIV MIDAS

Material: Rubber (NBR), for inlet nozzles, for pressurizing the filter system (checking the tightness of the piping).

Stainless steel screw V2A/AISI 304,

Weight: 0.05 kg,

Color: black/silver

Dimensions	PU	Code
1¼" Ø 34 – 40 mm	96	161
1½" Ø 43 – 50 mm	96	162
2" Ø 47 – 63 mm	96	163



Plastic screw version,

Weight: 0.09 kg, color: black/silver/white

Dimensions	PU	Code
1¼" Ø 34 – 40 mm	96	164
1½" Ø 43 – 50 mm	96	165
2" Ø 47 – 60 mm	96	166



WINTERFIT WINTERIZER

WinterFit, foam-free overwintering agent to prevent algae growth and hardness precipitation.

Article	PU	Code
Winterfit 1 l	6	23140
Winterfit 3 l	4	23141



POOLTESTER

PHOTOMETER POOL LAB 2.0

The Pool Lab 2.0 is the perfect solution for professional water analysis of pools and spas. Can measure up to 3 parameters in parallel. 24 pool parameters can be checked. With Bluetooth and WiFi. Protection class IP68

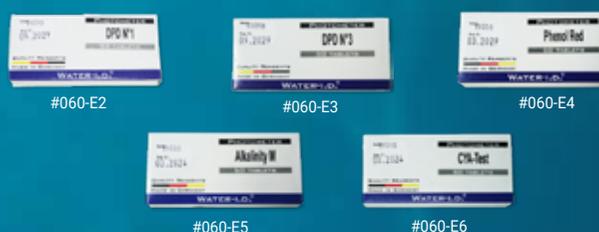
24 POOL MEASUREMENT PARAMETERS:

pH	6.50 - 8.40,
Active oxygen (MPS):	0.0 - 30.0 mg/l (ppm) *
Alkalinity (<i>acid capacity</i>):	0 - 200 mg/l (ppm),
Aluminium:	0.00 - 0.30 mg/l (ppm)* ,
Ammonium:	0.00 - 1.20 mg/l (ppm)*,
Bromine:	0.0 - 18.0 mg/l (ppm) **,
Chlorine (<i>free/bound/total</i>):	0.00 - 8.00 mg/l (ppm),
Chlorine (HR):	5 - 200 mg/l (ppm)*,
Chloramines:	0.00 - 8.00 mg/l (ppm)* ,
Chlorine dioxide:	0.0 - 15.0 mg/l (ppm) **,
Cyanuric acid (<i>stabilizer</i>):	0 - 160 mg/l (ppm) ,
Iron LR:	0.00 - 1.00 mg/l (ppm) * ,
Total hardness:	0 - 500 mg/l (ppm) * ,
Urea:	0.10 - 2.50 mg/l (ppm) * ,
Calcium hardness:	0 - 500 mg/l (ppm) * ,
Potassium:	0.70 - 12.0 mg/l (ppm) **,
Copper:	0.00 - 5.00 mg/l (ppm) * ,
Nitrate:	1 - 100 mg/l (ppm) *
Ozone:	0.00 - 5.40 mg/l (ppm) **,
PHMB:	5 - 60 mg/l (ppm) * ,
Phosphate (LR):	0.00 - 4.00 mg/l (ppm) *
Phosphate (HR):	0 - 80 mg/l (ppm) * ,
Sulphate:	5 - 100 mg/l (ppm) * ,
Hydrogen peroxide (LR):	0.00 - 2.90 mg/l (ppm) * ,
Hydrogen peroxide (HR):	0 - 200 mg/l (ppm) * ,
QUAT:	25 - 150 mg/l (ppm) *
Zinc:	0.00 - 1.00 mg/l (ppm) *



- Kit contents:**
- 1 x PoolLab 2.0 with Bluetooth and WiFi,
 - 1 x storage bag
 - 1 x triple cuvette
 - 1 x light protection cap,
 - 3 x plastic stirring rod,
 - 1 x 10ml syringe
 - 3 x AA batteries,
 - instruction manual
 - Free LabCOM app, software and cloud service

- Reagents:**
- 20 tablets Phenol Red,
 - 20 tablets DPD No. 1,
 - 10 tablets DPD No. 3,
 - 10 tablets Alkalinity,
 - 10 tablets CYA-Test Cyanuric Acid,



Article	Code
Pool LAB@ 2.0 Photometer	062

Reagents	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	060-E1
DPD No. 1 (free chlorine or bromine), 50 Pieces	060-E2
DPD No. 3 (total chlorine), 50 Pieces	060-E3
Phenol red (pH), 50 Pieces	060-E4
Alkalinity, 50 Pieces	060-E5
Cyanuric acid, 50 Pieces	060-E6
DPD No. 4 (active oxygen), 50 Pieces	060-E13

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



ELECTRONIC POOL TESTERS

These practical pool testers do not require any additional reagents to measure various water parameters professionally and accurately. The result is shown digitally on the display within seconds of immersing the tester in the water being measured, splash-proof, protection class IP54. Calibration is recommended before each use.



#057 #059

Article	Measuring ranges	Resolution	Accuracy	Calibration	Aut. temp. compens.	Code
Pool tester pH	pH (0.0 - 14.0)	0.1 pH	+/- 0.1 pH	1 point, manual	-	057
Pool tester TDS (Total dissolved salts)	TDS (0 - 10000 mg/l) (0.00 - 10.00 ppt)	0.01 ppt	+/- 2% FS	1 point, manual	automatically 0 - 50°C mit $\beta=2\%/^{\circ}\text{C}$	059



MULTI POOLTESTER

5 IN 1 MULTI-POOL TESTER

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



#052



#053



#054



#052-1
#054-1

Scope of delivery:

- 1 Pool tester pH-Chlor
- 1 stirring rod, length 10 cm
- 1 cuvette test (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

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 CaCO₃)
- Calcium hardness (20 - 800 mg/l CaCO₃)

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

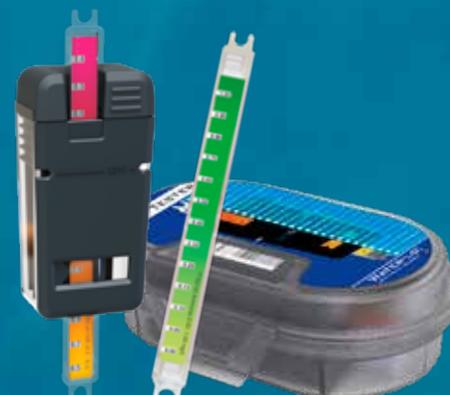


FLEXITESTER

NEW

FlexiTesters are the entry-level solution for semi-professional water analysis. Flexi Tester currently offers 43 different measuring methods. The device is only required once. Only the parameter sticks and reagents need to be purchased to expand to several measuring methods. Ergonomic design and high-quality reagents ensure uncomplicated and accurate measurement.

Article	Code
FlexiTester	064
Replacement strips "Chlorine"	064-1
Replacement strips "Cyanuric acid"	064-2
Replacement strips "Calcium hardness"	064-3
Replacement strip "Total hardness"	064-4
Replacement strips "Active oxygen"	064-5
Replacement strips "pH"	064-6
Replacement strip "Alkalinity"	064-7





PUFFER SOLUTION



#1070-E3 #102030-E1 #102030-E2 #102030-E3 102030-E4 #059-E1

Article	Code
Puffer solution pH 4, red, 50 ml	1070-E3
Puffer solution pH 7, green, 50 ml	102030-E1
Puffer solution pH 10, blue, 50 ml	102030-E2
Puffer solution Redox 475 mV, clear, 50 ml	102030-E3
Puffer solution neutral, clear 50 ml	102030-E4
Puffer solution TDS 6.44 ppt, 20 ml	059-E1



MIDA.SET PH & CHLORTESTER

Manual tester with 2 measuring chambers and 20 fast-dissolving tablets each for pH value and chlorine content, in a practical case

- Measuring range pH: 6.8 - 8.2
- Chlorine measuring range: 0.2 - 2.0 mg/l



#055



#050

Article	Code
MIDA.Set/pH & Chlorine tester (Piece)	055
MIDA.test pool tester pH/chlorine	050



TEST STRIPS POOL TESTER

Due to the long shelf life, it is no longer a problem to use excess stock in the following 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 therefore reacts directly with the salt to be measured. Unlike TDS meters, which determine the salt content empirically via the conductivity.

TSL-600

Test strips for measuring salt (NaCl) 5 of the 20 strips per box are blister-packed in aluminum. 20 test strips per PU. Measuring range NaCl: 0 - 7000 mg/l

TSL-100

In addition to the pH value, the 3-in-1 test strips measure the free chlorine, bromine and alkalinity values. 10 of the 50 strips per tin are blister-packed in aluminum
50 test strips per PU.

Measuring ranges:	pH	6,8 - 8,2
	Cl (f)	0,0 - 5,0
	Br	0,0 - 11,0
	Alk	0 - 240



#TSL-600

#TSL100

Article	Code
Test strips for measuring salt (NaCl)	TSL-600
3-in-1 test strips pH, Cl, Br, Alk	TSL100

06



SWIMMING POOL LINERS

Discover the exciting new products in the world of swimming pool equipment! In addition to the proven heat-insulating shuttering peripor stones for pool construction in accordance with DIN EN 13163, we offer our swimming pool liners in new, attractive colors Urban Grey, Mountain Blue, Sand Stone and Indian Marble from the Pure series and Dove Blue or Night Blue from the Supra series as well as the colors Sunlight, Darkstar, Bluemoon from the Keramik Collection bring a modern look to your pool.

But that's not all! Our water attractions, including color changes, provide that little bit extra, enhancing every pool and creating a unique atmosphere in the evening. Our products not only impress with their elegant design, but also with their high-quality workmanship using first-class materials such as stainless steel or acrylic glass. And no pool system would be complete without a solar shower - the perfect way to freshen up after a refreshing swim. Discover the world of swimming pool equipment now and bring your pool dreams to life!

OVERVIEW



SHUTTERING BLOCKS

P. 186 Peripor stones PS30L, PS30XXL, PS40L und PS40XXL



SWIMMING POOL LINER, STEP PROTECTION & LIQUID LINER

NEW

P. 187 Swimming pool liner Pure

NEW

P. 188 Swimming pool liner Elite Motion

P. 189 Swimming pool liner Pearl

P. 190 Swimming pool liner Elite

NEW

P. 192 Swimming pool liner Keramik

P. 193 Swimming pool liner Supra

P. 194 Swimming pool liner Classic



LAMINATED SHEETS

P. 196



SEPARATING & PROTECTIVE FLEECE

P. 197



ACCESSORIES FOR FOIL

P. 197



SHUTTERING BLOCKS



SPECIAL FEATURES:

- Material: EPS, Peripor
- Produced according to EN ISO 9001: 2008
- **Including** end slider:
25 pieces for XXL blocks (height 50 cm)
50 pieces for L-bricks (height 25 cm)
- Compressive stress according to EN 836:
150 kPa at 10 % compression
- Thermal conductivity according to EN 12667:
0.035 lambda ((W/m*K))
- Divisible in units of 25 cm



First formwork block in pool construction according to DIN EN 13163 (approved for public areas)

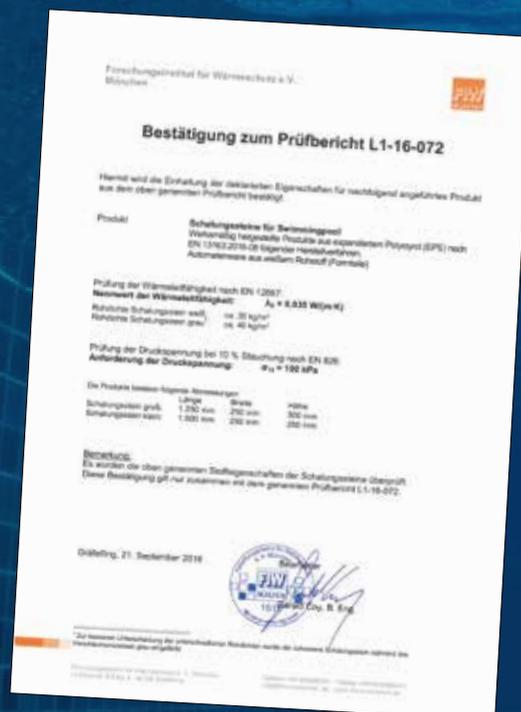
¹ For a 150 cm deep pool (4 corners), 24 end sliders are required when using XXL bricks (height 50 cm) and 48 end sliders (8 per layer) when using L bricks (height 25 cm). For additional corners, stairs or special shapes, you will need additional end sliders (subject to a charge).

ADVANTAGES OVER POLYSTYRENE:

- ✓ Does not absorb moisture
- ✓ 100% recycelbar (kein Sondermüll)
- ✓ Filling is generally not necessary as the joints are very narrow and there are no cutting bars on the inside of the basin (every 25 cm)



View from above



STONES WITH A DENSITY OF 60 G/L OR 80 G/L ARE AVAILABLE ON REQUEST

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

Article	Dimensions L x B x H	Concrete filling quantity	Density	Color	UP	Code
Peripor stone PS30L	100 x 25 x 25 cm	30,20 l	30 g/l	weiss	40	PS30L
Peripor stone PS30XXL	125 x 25 x 50 cm	66,15 l	30 g/l	weiss	16	PS30XXL
Peripor stone PS40L	100 x 25 x 25 cm	30,20 l	40 g/l	grau	40	PS40L
Peripor stone PS40XXL	125 x 25 x 50 cm	66,15 l	40 g/l	grau	16	PS40XXL
End slide PS30	14 x 8 x 4 cm	-	30 g/l	white	1	PS-E
Spray adhesive Poly 500 ml	-	-	-	-	12	8054

SWIMMING POOL LINERS

SWIMMING POOL LINERS PURE

pure
Pool Passion

NEW

Inspired by the colors, shapes and textures of natural stone, Pure creates the impression of untouched rocky landscapes. The charismatic colors radiate comfort, calm and warmth. Gently textured 3D surfaces blend harmoniously into natural pool landscapes and ensure pure bathing pleasure. Pure swimming pool liners are not only an absolute eye-catcher visually. In addition to their specially textured surface and stylish designs, Pure also boasts excellent product properties.

Max. Water temperature: +33°C
PU: 8 rolls/pallet

WARRANTY
15 YEARS
WATERPROOFNESS



DIMENSIONS

Roll length: 21 m
Width: 1,65 m
Thickness: 1,8 mm



ROLL LENGTH 21m X 1,65m (WIDTH)
(one roll = 34,65 m²)

Color	Code
Pure Terra Sand (8)*	20.265
Pure Ocean Grey (8)*	20.266
Pure Urban Grey	20.273
Pure Mountain Blue	20.261
Pure Sand Stone	20.262
Pure Indian Marble	20.263

*Suitable liquid foil can be found on catalog page 196, sorted by number.

Note on the color display: The pool liner colors shown may vary depending on water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.

- HIGH STAIN RESISTANCE
- VERY EASY CLEANING
- 3D SURFACE
- EXCELLENT UV-RESISTANCE
- HIGH CHLORINE RESISTANCE
- PROTECTION AGAINST BACTERIA & FUNGI
- HIGH SCRATCH RESISTANCE
- NATURAL DESIGNS

ACCESSORIES FOR BUTT WELDING

Article	Code
Welding strips 1,5 mm, 15 cm x 25 m	20.799



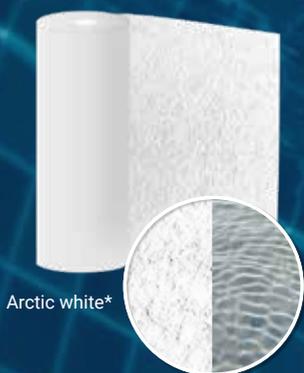
FABRIC-REINFORCED SWIMMING POOL FILM ELITE MOTION

elite
Superior pools.

NEW

elite® motion combines excellent product features with a uniquely stylish 3D surface. The film not only offers outstanding protection against contamination along the waterline, but also impresses with its exceptional UV resistance and color fastness

Max. water temperature +35°C
PU: 6 rolls/pallet



DIMENSIONS

Roll length: 21 m
Width: 1,65 m
Thickness: 1,8 mm



Butt-to-butt welding



PHTHALATE-FREE



PROTECTION AGAINST BACTERIA, FUNGI & ALGAE



EXTREME PROTECTION OF THE WATERLINE



EXTREME UV-RESISTANCE



EXTREME STAIN RESISTANCE



EXTREMELY EASY TO CLEAN



EXTREME CHLORINE RESISTANCE



EXCELLENT SCRATCH RESISTANCE



BEST CHOICE FOR PUBLIC POOLS



LONGER LIFETIME



3D SURFACE



QUICK & EASY INSTALLATION

ROLL LENGTH 21m x 1.65m (WIDTH)
(one roll = 34,65 m²)

Color	Code
Arctic white (4)*	20.294
Black stone (6)*	20.295
Blue sky (2)*	20.298
Deep sea (1)*	20.297
Grey Rock (5)*	20.293
Sand beach (6)*	20.292

Note on the color display: The colors of the pool liners shown may vary depending on the water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.

ACCESSORIES FOR BUTT WELDING

Article	Code
Welding strips 1,5 mm, 15 cm x 25 m	20.799



SWIMMING POOL LINER PEARL

PRINTED & SURFACE-FINISHED



The pool liner with pearlescent reflection is dirt-repellent, resistant to the strongest stains and UV radiation. Depending on the incidence of light, light source or degree of illumination, the amazingly real mother-of-pearl effect creates a uniquely vivid and brightly shimmering play of colors. Weather and cold resistant, antimicrobial treatment.

Max. Water temperature: +33°C
PU: 8 rolls/pallet



DIMENSIONS

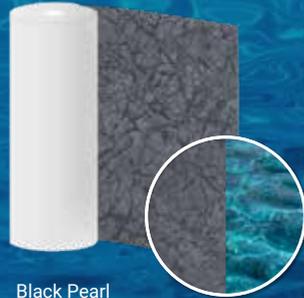
Roll length: 21 m

Width: 1,65 m

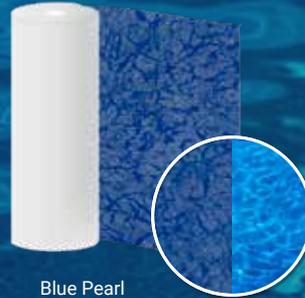
Thickness: 1,6 mm



White Pearl



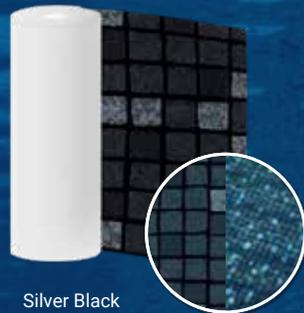
Black Pearl



Blue Pearl



Sand Pearl



Silver Black



Silver Lagoon

- HIGH STAIN RESISTANCE
- 3D SURFACE
- LONGER LIFETIME
- HIGH SCRATCH RESISTANCE
- BREATHTAKING REFLECTIVE PROPERTIES
- EASY TO CLEAN
- HIGH CHLORINE RESISTANCE
- PROTECTION AGAINST BACTERIA & FUNGI
- QUICK & EASY INSTALLATION

ROLL LENGTH 25M X 1.65M (WIDTH)

(one roll = 41.25 m²)

Color	Code
White Pearl (1)*	20.787
Black Pearl (6)*	20.776
Blue Pearl (10)*	20.777
Sand Pearl (4)*	20.984
Silver Black (7)*	20.007
Silver Lagoon (11)*	20.939

Note on color display: The pool liner colors shown may vary depending on water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.



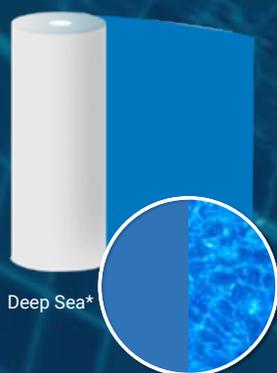
FABRIC REINFORCED SWIMMING POOL FILM ELITE



elite
Superior pools.

elite® is the first phthalate-free fabric-reinforced swimming pool membrane on the market. Extremely stain-resistant, scratch-resistant, UV-resistant, chlorine-resistant, easy to weld, easy to clean. The world's first for a cleaner environment and longer pool enjoyment is the world's healthiest choice. This liner has a revolutionary surface that inhibits the penetration of cosmetics, sunscreen, etc. and requires less cleaning. With the elite® liner, the pool retains its original color for many years, looks fresh, clean and invites you to swim.

Max. Water temperature +35°C.
PU: 8 rolls/pallet



Deep Sea*



Blue Sky*



Sand Beach*



Arctic White*



Grey Rock*



Black Stone*

DIMENSIONS

Roll length: 25 m

Width: 1,65 m or 2,00 m

Thickness: 1,5 mm



PHTHALATE-FREE



PROTECTION AGAINST BACTERIA, FUNGI & ALGAE



EXTREME PROTECTION OF THE WATERLINE



EXTREME UV-RESISTANCE



EXTREME STAIN RESISTANCE



EXTREMELY EASY TO CLEAN



EXTREME CHLORINE RESISTANCE



EXCELLENT SCRATCH RESISTANCE



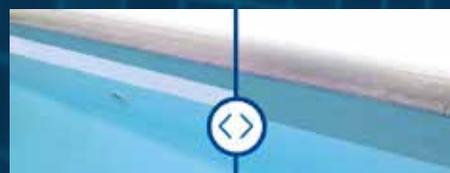
BEST CHOICE FOR PUBLIC POOLS



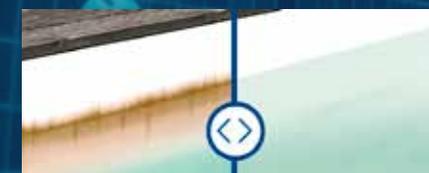
LONGER LIFETIME



QUICK & EASY INSTALLATION



without elite



with elite ✓

without elite

with elite ✓

ROLL LENGTH 25m x 1.65m (WIDTH)
(one roll = 41,25 m²)

Color	Code
Deep Sea (1)*	20.068
Blue Sky (2)*	20.069
Sand Beach (3)*	21.070
Arctic White (4)*	20.071
Grey Rock (5)*	20.173
Black Stone (6)*	20.122

ROLL LENGTH 25m x 2,00m (WIDTH)
(one roll = 50 m²)

Color	Code
Deep Sea (1)*	20.119
Blue Sky (2)*	20.118
Sand Beach (3)*	21.120
Arctic White (4)*	20.117
Grey Rock (5)*	20.121
Black Stone (6)*	20.123

Note on color display: The pool liner colors shown may vary depending on water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.

STEP PROTECTION ELITE

The textured surface ensures maximum slip resistance on steps, in children's paddling pools and walk-through pools. Free of heavy metals and resistant to standard swimming pool care and water cleaning agents. Resistant to ageing and rotting, stabilized against UV radiation, weldable, cold-resistant and antimicrobial.



elite
Superior pools.



DIMENSIONS

Roll length: 10 m

Width: 1,65

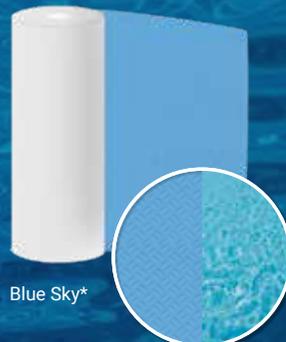
Thickness: 1,9 mm



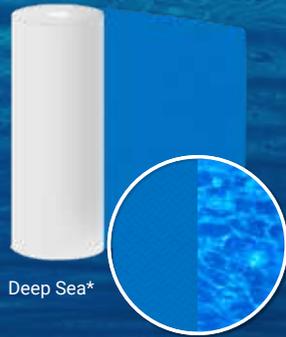
Arctic White*



Sand Beach*



Blue Sky*



Deep Sea*



Grey Rock*



Black Stone*



PHTHALATE-FREE



PROTECTION AGAINST BACTERIA, FUNGI & ALGAE



EXTREME PROTECTION OF THE WATERLINE



EXTREME UV-RESISTANCE



EXTREME STAIN RESISTANCE



EXTREMELY EASY TO CLEAN



EXTREME CHLORINE RESISTANCE



EXCELLENT SCRATCH RESISTANCE



BEST CHOICE FOR PUBLIC POOLS



LONGER LIFETIME



QUICK & EASY INSTALLATION

ROLL LENGTH 10m x 1.65m (WIDTH)

(one roll = 16,50 m²)

(15 % SURCHARGE FOR CUTTING TO THE REQUIRED LENGTH)

Color	Code
Arctic White (4)*	20.079
Sand Beach (3)*	20.078
Blue Sky (2)*	20.077
Deep Sea (1)*	20.076
Grey Rock (5)*	20.080
Black Stone (6)*	20.124

ELITE LIQUID FILM

Seam sealing of weld seams on fabric-reinforced swimming pool membranes, container size: 950 ml (can), also available individually.

Color	Code
Deep Sea (1)	21.396
Blue Sky (2)	21.395
Sand Beach (3)	21.394
Artic White (4)	21.393
Grey Rock (5)	21.403
Black Stone (6)	21.536



*Suitable liquid foil can be found on catalog page 196, sorted by number.



KERAMIK collection

SWIMMING POOL LINER KERAMIK

NEW

Discover the innovative KERAMIK collection from CEFIL POOL - a true revolution in the world of pool liners! This collection combines elegance and exclusivity in one product and gives traditional porcelain stoneware tiles new advantages. The reinforced membranes of the KERAMIK collection stand for luxury and exceptional, tangible quality. The elegance of these membranes creates a visual experience and transports you into a world of sophistication. Installation is quick, uncomplicated and waste-free. (For liquid membranes, see page 196)
 Max. Water temperature +32°C.
 PU: 10 rolls/pallet

WARRANTY
10
 YEARS
 WATERPROOF

ANTI-SLIP
 PROPERTIES
C
 GROUP

UNE-EN
15836-2

DIMENSIONS

Roll length: 25 m

Width: 1,65 m

Thickness: 1,5 mm



3D SURFACE



DURABLE & ROBUST



MODERN & LUXURIOUS



SIMPLE INSTALLATION



UV RESISTANCE



LOW MAINTENANCE



FLEXIBLE & EASILY CUSTOMIZABLE



ANTI-SLIP SURFACE



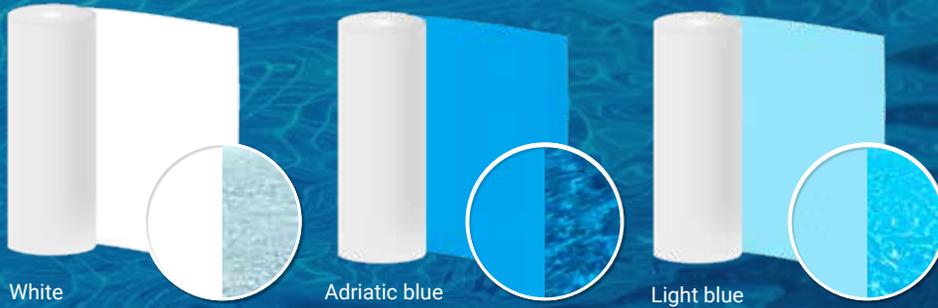
ROLL LENGTH 25m x 1.65m (WIDTH)
 (one roll = 41,25 m²)

Color	Code
Sunlight (15)*	20.267
Bluemoon (16)*	20.268
Darkstar (17)*	20.269

Note on the color display: The pool liner colors shown may vary depending on the water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.

FABRIC REINFORCED SUPRA SWIMMING POOL LINER

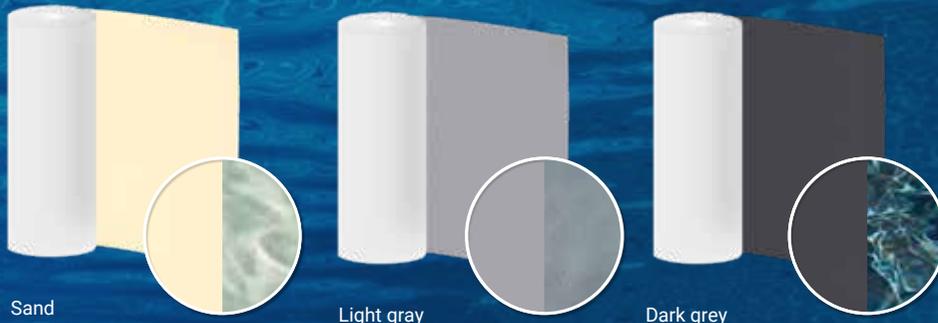
With high-quality surface finishing to protect against soiling and discoloration, antimicrobial finish, stable against UV radiation, cold-resistant, tear-resistant and hard-wearing.
 Max. Water temperature +32°C.
 PU: 8 rolls/pallet



White

Adriatic blue

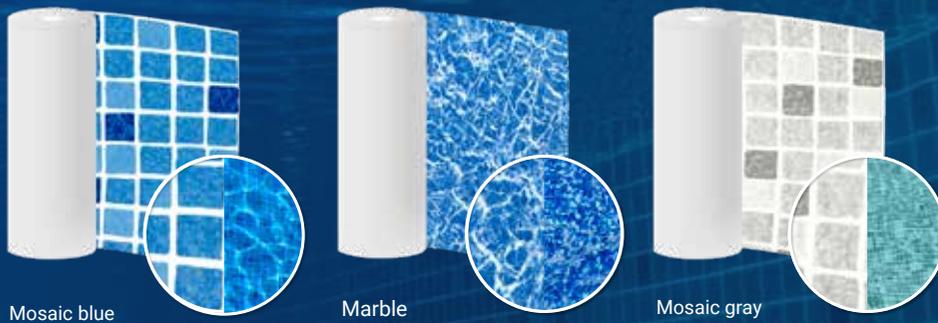
Light blue



Sand

Light gray

Dark grey



Mosaic blue

Marble

Mosaic gray



Pigeon blue



Night blue

NEW

NEW

ROLLER LENGTH 25M X 1.65M (WIDTH) (one roll = 41,25 m²)

Color	Code
White (1)*	20.049
Adriatic blue (2)*	20.410
Light blue (3)*	20.052
Sand (4)*	20.051
Light gray (5)*	20.055
Dark grey (6)*	20.786
Mosaic blue (1)*	20.749
Mosaic gray (1)*	20.190
Marble (1)*	20.191
Pigeon blue (13)	21.338
Night blue (14)	21.340

ROLLER LENGTH 25M X 2.00M (WIDTH) (one roll = 50 m²)

Color	Code
White (1)*	20.048
Adriatic blue (2)*	20.409
Light blue (3)*	20.053
Sand (4)*	20.054
Light gray (5)*	20.074
Dark grey (6)*	20.910

DIMENSIONS
 Roll length: 25 m
 Width: 1,65 m oder 2,00 m
 Thickness: 1,5 mm

- EXTREME STAIN RESISTANCE
- 3D SURFACE
- EXTREME UV-RESISTANCE
- EXCELLENT SCRATCH RESISTANCE
- EXTREMELY EASY TO CLEAN
- EXTREME CHLORINE RESISTANCE
- PROTECTION AGAINST BACTERIA, FUNGI & ALGAE
- NATURAL DESIGNS

Swimming Pool Liners 06

Note on color display: The pool liner colors shown may vary depending on the water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.

Color deviations are possible for technical printing reasons.

*Suitable liquid foil can be found on catalog page 180, sorted by number.

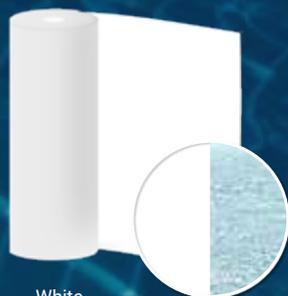
** Liquid foil (1)-(11) possible. Please select as required.



FABRIC-REINFORCED SWIMMING POOL LINER CLASSIC



The fabric-reinforced swimming pool liners are the ideal material for lining fixed pools of all shapes and sizes, both indoors and outdoors. Extremely tear-resistant, hard-wearing and resistant to weathering, cold, fungi and bacteria. Suitable for any load-bearing substrate.
 Max. Water temperature +32°C
 PU: 8 rolls/pallet



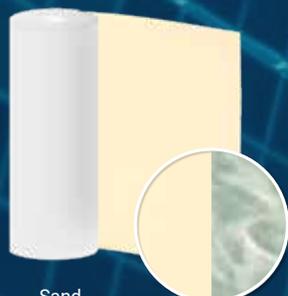
White



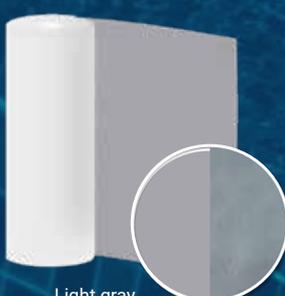
Adriatic blue



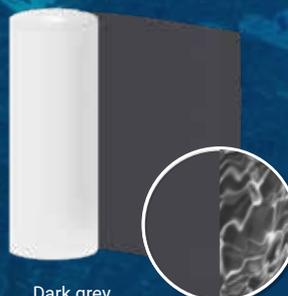
Light blue



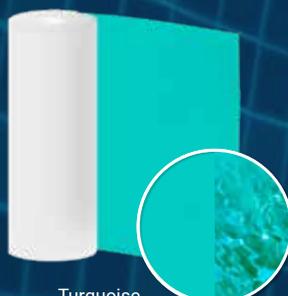
Sand



Light gray



Dark grey



Turquoise



Black

DIMENSIONS

Roll length: 25 m

Width: 1,65 m or 2,00 m

Thickness: 1,5 mm



EXTREME UV-RESISTANCE



EXTREME STAIN RESISTANCE



EXCELLENT SCRATCH RESISTANCE



PROTECTION AGAINST BACTERIA, FUNGI & ALGAE



EXTREMELY EASY TO CLEAN



LONGER LIFETIME



QUICK & EASY INSTALLATION

ROLL LENGTH 25M X 1.65M (WIDTH)

(one roll = 41,25 m²)

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 gray (5)*	20.073
Dark grey (6)*	20.529
Black (7)*	20.579

ROLL LENGTH 25M X 2.00M (WIDTH)

(one roll = 50 m²)

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 gray (5)*	20.072
Dark grey (6)*	20.628

Note on color display: The colors of the pool liners shown may vary depending on water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.

FABRIC-REINFORCED TREAD PROTECTION MEMBRANE

The textured surface ensures maximum slip resistance on steps, in children's paddling pools and walk-through pools. Free of heavy metals and resistant to standard swimming pool care and water cleaning agents. Resistant to ageing and rotting, stabilized against UV radiation, weldable, cold-resistant and antimicrobial.



DIMENSION

Roll Length: 10 m

Width: 1,65 m

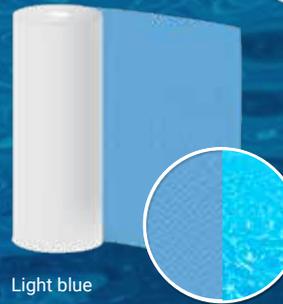
Thickness: 1,9 mm



White



Adriatic blue



Light blue



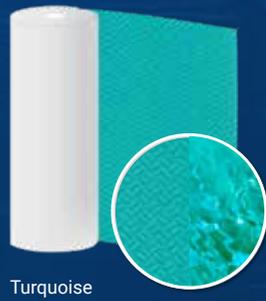
Sand



Light gray



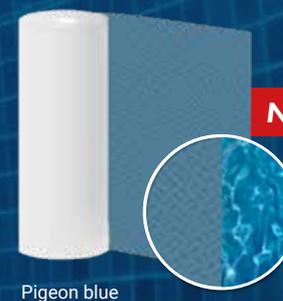
Dark grey



Turquoise



Black



Pigeon blue

NEW



Night blue

NEW



EXTREME
UV-RESISTANCE



EXTREME
STAIN RESISTANCE



EXCELLENT
SCRATCH RESISTANCE



PROTECTION AGAINST
BACTERIA, FUNGI
& ALGAE



EXTREMELY EASY
TO CLEAN



LONGER
LIFETIME



QUICK & EASY
INSTALLATION

ROLL LENGTH 10M X 1.65M (WIDTH)

(one roll = 16,50 m²)

(15 % SURCHARGE FOR CUTTING TO THE REQUIRED LENGTH)

Color	Code
White (1)*	20.765
Adriatic blue (2)*	20.772
Light blue (3)*	20.768
Turquoise (9)*	20.769
Sand (4)*	20.766
Light gray (5)*	20.767
Dark grey (6)*	20.771
Black (7)*	20.770
Pigeon blue (13)*	20.773
Night blue (14)*	20.774

Note on the color display: The pool liner colors shown may vary depending on water depth and lighting. The illustrations serve only as examples and are intended to give an impression of how the liners may look under water.



LIQUID FILM

Seam sealer for welded seams on fabric-reinforced swimming pool membranes, container size: 950 ml (can), also available individually.

Color	PU	Code
White (1)	6	21.054
Adriatic blue (2)	6	21.048
Light blue (3)	6	21.053
Sand (4)	6	21.056
Light gray (5)	6	21.046
Dark grey (6)	6	21.154
Black (7)	6	21.190
Transparent (8)	6	21.055
Turquoise (9)	6	21.049
Blue Pearl (10)	6	21.246
Silver Lagoon (11)	6	21.274
Silver Black (12)	6	21.247
Pigeon blue (13)	6	21.345
Night blue (14)	6	21.346



#21.270

#21.271

#21.272

LIQUID FILM KERAMIK COLLECTION

Seam sealing of weld seams on fabric-reinforced swimming pool membranes, container size: 1000 ml (can), also available individually.

Color	PU	Code
Sunlight for Keramik Collection (15)	6	20.270
Bluemoon for Keramik Collection (16)	6	20.271
Darkstar for Keramik Collection (17)	6	20.272

FOIL COMPOSITE SHEET

For the installation of fabric-reinforced swimming pool membranes. Composite sheet thickness: 1.2 mm

Article	Color	Dimensions (mm)	PU	Code
Blackboard	Blue	2000 x 1000	30	21.063
Stripes	Blue	70 x 2000	10	21.071
External angle	Blue	70 x 30 x 2000	10	21.068
Inside angle	Blue	70 x 30 x 2000	10	21.067
External angle	Blue	100 x 30 x 2000	10	21.064
Inside angle	Blue	100 x 30 x 2000	10	21.065
External angle	Blue	50 x 50 x 2000	10	21.066
Inside angle	Blue	50 x 50 x 2000	10	21.069

Acceptance: individually possible

ANTIBACTERIAL SEPARATING AND PROTECTIVE FLEECE

Antibacterial separating and protective fleece available in 300 g/m², thermally bonded polyester fibers, resistant to drilling and screwing. Color: light green.

WIDTH: 2,00 METER (one roll = 100 m²)

Article	Quality	PU	Code
Antibacterial fleece	300 g/m ²	6 Rolls	20.505

WIDTH: 1,50 METER (one roll = 75 m²)

Article	Quality	PU	Code
Antibacterial fleece	300 g/m ²	6 Rolls	20.504

PACKAGING
Sheet; PU: 30/pallet
Outside angle, strips,
inside angle;
PU: 10/pc.

DIMENSIONS
Width: 2,00 m
Roll length: 50 m



SEPARATING AND PROTECTIVE FLEECE

Separating and protective fleece available in 300 g/m² and 500 g/m², thermally bonded polyester fibers, drillable and screw-proof, rot-proof, diffusion-open, compatible with films and bitumen. Color: white, also available individually. B2-DIN 4102.

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

WIDTH: 1,50 METER

Article	Quality	PU	Code
Fleece	300 g/m ²	6 Rolls	20.500
Fleece	500 g/m ²	5 Rolls	20.506

WIDTH: 2,00 METER

Article	Quality	PU	Code
Fleece	300 g/m ²	6 Rolls	20.501
Fleece	500 g/m ²	5 Rolls	20.502



ACCESSORIES

FOR PROFESSIONAL SWIMMING POOL LANE LINING

Indoor and outdoor pools of any shape and size can be lined with swimming pool liners. This applies to both new builds and the renovation of existing pools with substrates made of concrete, masonry, wood, steel, aluminum, polyester and embankment-supported pools with an incline of up to 60°. The right accessories for installation are a must to ensure that the lining of the pool is carried out professionally.

Note: Fleece adhesive Pro, 5 kg bucket #8045 is **not** suitable for the pool wall

Article	PU	Code
Small spray bottle, 250 ml	5	21.001
Spray bottle, 500 ml	5	21.000
Spray adhesive for pool fleece, 500 ml*	12	8046
Styro spray adhesive for pool fleece, 500 ml	12	8054
Swelling welding fluid THF, 1,000 ml	6	21.039
Fleece adhesive Pro, 5 kg bucket	1	8045
Hammer rivets, long, 35 mm	12 pack of 100 pieces	21.382
Hammer rivets short, 20,3 mm	12 pack of 200 pieces	21.381

*for concrete basins



#21.001

#21.000

#8046

#8054

#21.039

#8045

#21.381

#21.382



M TOOLS FOR WELDING



#06.013



#06.016



#06.021



#06.019



#06.018

Article	Code
Weld seam tester	06.018
Universal scissors 260 mm with special serrated edge	06.021
Pressure roller with ball bearing, brass; width 6 mm	06.016
Pressure roller with ball bearing, silicone; width 43 mm	06.013
Kehlfix for waterproofing membranes; width 55 mm	06.019

M ELBE THERMO GLUE

NEW

Ready-to-use, one-component adhesive. Suitable for bonding PVC films to wood, concrete, rigid PVC, GRP or similar surfaces. Processing should be carried out at ambient temperatures above + 5 °C.

The most favorable processing temperature is + 18 °C to + 25 °C.

- Enormous time saving during stair installation, especially with free-form stairs
- Saves sheet metal and sheet metal processing by sticking the film directly onto the substrate
- Very suitable for sticking on underlay welding strips - head-to-head welding is easier and faster
- Perfect for the wet-wet process
- Suitable for bonding film to roll covers

Easy to use: Apply adhesive, allow to air dry for 10-15 minutes - once dry - no more sticking. For installation, simply activate with heat and apply the film

Article	Code
Thermo Glue	21.397



HOT AIR HAND TOOL SUITABLE FOR CONSTRUCTION SITES

ENERGIE-SPARSAM 

Triac ST

TRIAC ST impresses with the successful combination of a highly robust motor and a modern design. The ergonomic design and low weight ensure optimum user comfort. For plug-in nozzles. With EU plug. Case included.



#06.002

simple power control

Technical data	
Voltage	230 V / 50Hz
Performance	1600 W
Temperature	40 - 700°C
Protection class	II
Dimensions (L x Ø)	338 mm x 90 mm

ENERGIE-SPARSAM 

Triac AT

Intelligent, construction site-compatible hot air hand tool with energy-saving function and ergonomic design for welding swimming pool liners. Energy-saving function with ECO Motion Sensor (configurable) recognizes when the device is not in use and thus saves up to 40 % of energy with additional noise level reduction. For plug-in nozzles. With EU plug. Case included.



with LED display

#06.001

Technical data	
Voltage	230 V / 50Hz
Performance	1600 W
Temperature	40 - 620°C
Protection class	II
Dimensions (L x Ø)	335 mm x 90 mm

Article	Code
Triac ST	06.002
Triac AT	06.001

ACCESSORIES FOR TRIAC ST AND TRIAC AT



#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

Others available on request.

07



POOL COVERS



When it comes to swimming pool equipment, we offer everything your swimming pool heart desires - and more! Our heat-insulating or heat-supporting pool covers are an indispensable component for energy-efficient pool operation.

In addition to our high-quality safety covers, we also offer customized bubble wrap to complete the range of pool covers. Discover the variety and numerous benefits of our products today and make your pool safer, more efficient and more stylish than ever before!

OVERVIEW



ROLLER SHUTTER COVERS

- P. 202 Quick overview/comparison table
- P. 204 Clean(eR) Tri-Extrusion Polycarbonat 
- P. 205 Mast(eR) Tri-Extrusion Polycarbonat 
- P. 205 Start(eR) Mono PVC 

DRIVES FOR ROLLER SHUTTER COVERS

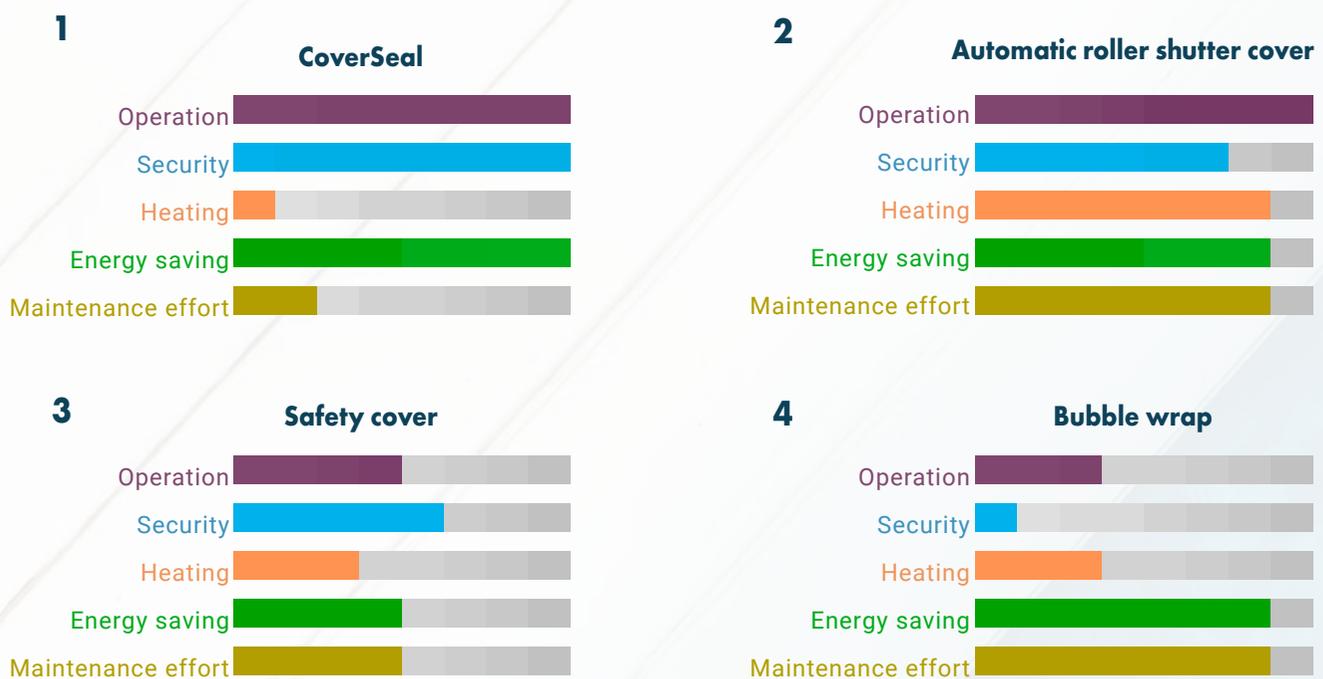
- NEW** P. 210 Underfloor mounting sets
- NEW** P. 211 Cladding & above-floor drive

SAFETY COVERS

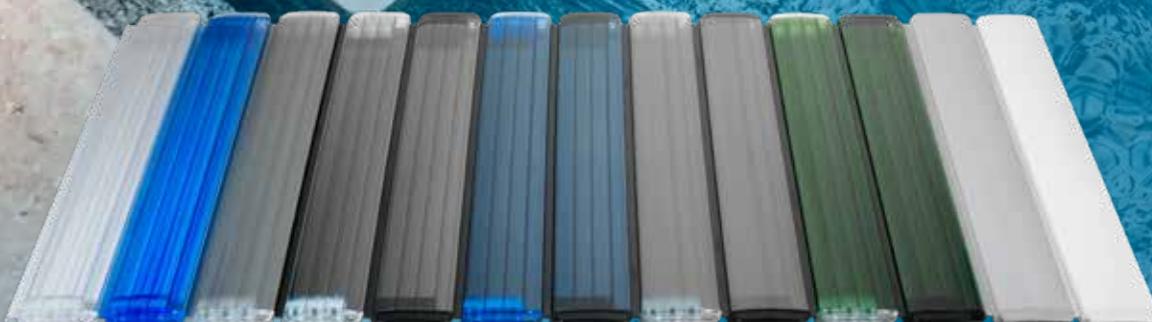
- P. 212 Safety covers
- P. 215 Bubble wrap & accessories

ROLLER SHUTTER COVERS

A pool should always be covered if possible, as approx. 80% of heat loss occurs via the water surface. Covers save an enormous amount of energy as evaporation is greatly minimized. On warm summer days, this can amount to between 160-320 liters per day for a pool with a water surface area of 32m². Another advantage is that the pool is protected from dirt such as leaves, dust, insects and bird droppings. A cover also keeps out the sun's rays and reduces chlorine consumption. Additional heating by the cover is possible if it has a solar effect. There are various covers with corresponding advantages and disadvantages, which are clearly shown in the following overview.



The 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 water, in new builds and renovations. It is possible to replace individual slats as well as the entire cover and to replace original slats of the existing pool with our slats. Thanks to their double hook connection, the slats can be rolled up on both sides and can therefore be used in any situation, both in new construction projects and renovations. They are also easy to install and remove thanks to their click and slide system. In addition, the slats have an opening in the double hook connection to promote water circulation and reduce possible algae formation. The polycarbonate slats in Mast(eR) and Clean(eR) are manufactured using tri-extrusion. TRI extrusion protection means that an additional layer is extruded onto the slats. In combination with a UV absorber, this gives the polycarbonate components greater impact resistance and improved UV protection, which is crucial for hail resistance and a longer service life.



Insulate

By covering the water surface, the heated pool water does not evaporate. The heat remains in the pool. As the water evaporates, the chemicals also evaporate. A cover therefore not only saves heating costs, but also water and chemicals.

Anti-algae

Algae growth is caused by the combination of sunlight and stagnant water. Thanks to a dark chamber in the hook connection, almost no more algae form in the slats as the light no longer reaches the water. By using these Clean(eR) slats, the cover stays clean for much longer.

Solar effect

The solar slats heat the water, as the sun heats the black underside through the transparent upper side. This can add up to 10 °C! A swimming pool with an automatic slatted cover saves 50% of the energy costs, with solar slats up to 80% can be saved. Additional heating during the season is then normally superfluous.

Budget

The price of a slatted cover naturally depends on the dimensions of the swimming pool. PVC white and gray slats insulate perfectly, polycarbonate solar slats warm the water and Clean(eR) slats reduce algae growth. The choice of these additional options determines the total price. These options are clearly divided into 3 different price categories: Start(eR), Mast(eR) and Clean(eR).

	INSULATE	SOLAR EFFECT	ANTI_ALGAE	BUDGET
Start(eR) PVC
Mast(eR) PC Solar
Mast(eR) PC Transparent
Clean(eR) PC Solar

It's the details that make the difference. Durability, functionality and price are the basis for developing the perfect cover. The design and the materials used in a slat are unique and make a plastic profile a durable cover.

UV-resistant due to tri-extrusion

Tri-extrusion is used to apply an additional protective layer to the slats. In combination with the integrated UV absorbers, this prevents the polycarbonate from losing its mechanical properties, e.g. its high impact resistance. This counteracts ageing and is important for hail and scratch resistance. Both the polycarbonate slats in the Mast(eR) and Clean(eR) profiles are tri-extruded.

Hail resistant

In many countries, summer hailstorms are responsible for damage to cars, roofs and even swimming pool covers. In Switzerland, certification is therefore required in order to insure a cover. Several of our polycarbonate slats have been tested and certified by an official testing institute in Switzerland and have achieved very good results. This means that the slats are not functionally damaged by hailstones from 30 mm and a fall speed of 110 km per hour. The individual results are listed by profile.

End caps

We seal our slats watertight with a silicone sealing cap. This creates a secure, flexible and reliable seal. The polycarbonate end caps are specially designed to dry faster (= shorter delivery time) and have an opening in the hook to promote water circulation and reduce algae formation.

Hook connection

The double hook connection of the slats ensures a stable and secure closure of the cover as well as a strong connection between the slats. Rolling up is possible in both directions.

HAIL PROTECTION AND HAIL CLASSES

The polycarbonate slats are highly hail-resistant. The hail register certifies 2 aspects: Functionality and appearance. Functionality is tested for mechanics and watertightness. The hail protection is classified from HW1 to HW5, with HW5 is the most resistant.

The Mast(eR) polycarbonate slat fulfills these requirements. HW5 means that the function of the slats is not damaged if they are hit by hailstones with a diameter of 50 mm at a speed of 110 km/h.



We will be happy to provide you with an individual offer. Under this QR code you will find a checklist that is required for a quotation.

TRI-EXTRUSION POLYCARBONATE WITH DOUBLE UV PROTECTION

- UV absorber in the base material
- Additional layer of UV absorbers on the slat 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 swimming pools
- Min/max. operating temperature: -31°C to +130°C
- Buoyancy in N per m² of pool slats: Pole(eR) approx. 7 kg/m², Clean(eR) approx. 10 kg/m²



CLEAN(ER) TRI-EXTRUSION POLYCARBONAT



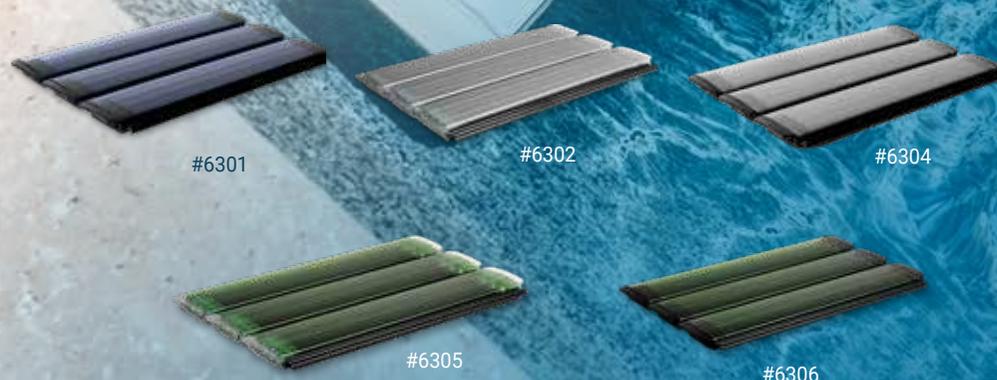
Three-chamber cavity profile with double joint in size 60x15 mm, with double UV protection, Hail resistance functionality HW4, 3-year guarantee HW3, K-value 2.74 W/m²K, High impact strength, elasticity and UV resistance. Extremely high resistance to cold and heat. The hook connection is designed as a dark chamber. This means that no light shines on the water in the hook chamber, which ensures that virtually no algae forms in the slats. 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. *However, a minimum width of 3.0 m is taken as a basis



Color	Code
Solar blue transparent with black end caps	6301*
Solar silver transparent with transparent end caps	6302
Solar silver transparent with black end caps	6304
Solar green transparent with transparent end caps	6305
Solar green transparent with black end caps	6306



Regardless of the usual freight charges, shipping costs (on request) apply. Lifting platform required on site.



MAST(ER) TRI-EXTRUSION POLYCARBONAT



ENERGY SAVING

NEW
#6210
#6211

Three-chamber cavity profile with double connection in size 60 x 14 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 base material. Tri-extrusion: Additional layer of UV absorbers on the slat surface. Buoyancy approx. 7 kg/m². To calculate the m², the width is rounded up to 0.5 m. *However, a minimum width of 3.0 m is taken as a basis.



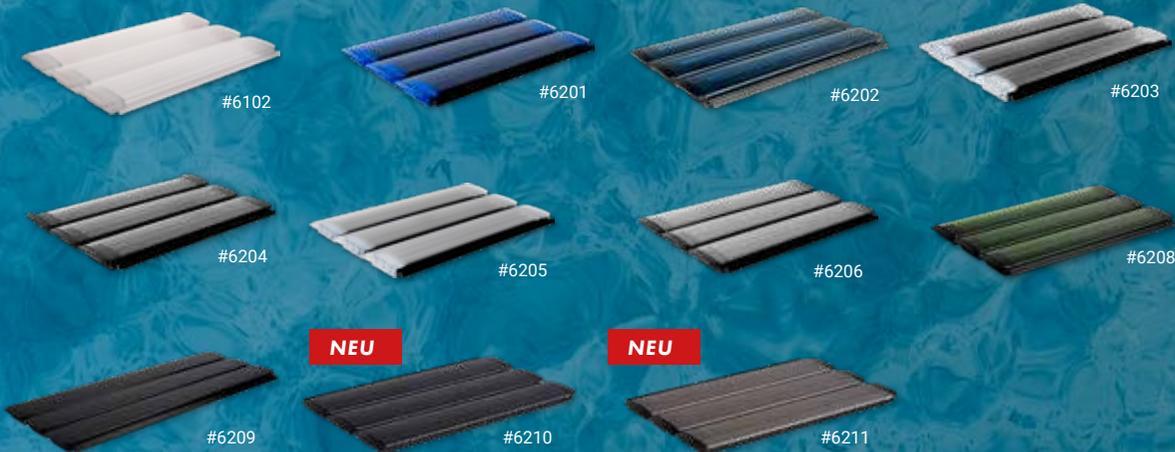
Color	Code
Totally transparent with transparent end caps	6102
Solar blue transparent with blue-transparent end caps	6201
Solar blue transparent with black end caps	6202
Solar Total transparent with transparent end caps	6203
Solar Total transparent with black end caps	6204
Solar silver transparent with transparent end caps*	6205
Solar silver transparent with black end caps*	6206
Solar green transparent with black end caps	6208
Solar Smokey-Black with black end caps	6209
Solar Royal-Black with black end caps	6210
Solar Royal-Grey with black end caps	6211

HW5
Functionality

3 HW3
YEARS
WARRANTY

Regardless of the usual freight charges, shipping costs (on request) apply. Lifting platform required on site.

• HW4 Functionality



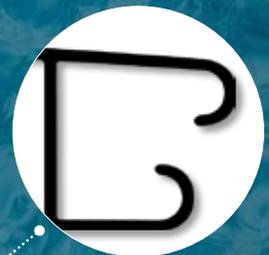
START(ER) MONO PVC

ENERGY SAVING

Three-chamber cavity profile with double connection, size 60x14 mm, 3-year guarantee, K-value 2.74 W/m²K, Entry-level slat if insulation is the main objective. Buoyancy approx. 7 kg/m². To calculate the m², the width is rounded up to 0.5 m. *However, a width of at least 3.0 m is taken as a basis.



★ ★ ★
3 YEARS
WARRANTY



Color	Code
White	6001*
Gray	6002

Regardless of the usual freight charges, shipping costs (on request) apply. Lifting platform required on site.



ACCESSORIES

For the correct positioning of the slats in underfloor systems



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

OPTIONEN

Article	Code
Surcharge for recessing or rounding per slat	6001-E3
Surcharge for Roman staircase up to 5 m ² , (for larger staircases on request)	on request



OVERVIEW OF ROLLER DIAMETERS FOR 140 MM (250 NM) AND 170 MM (450 NM) WINDING SHAFTS

Mast(eR) Mono PVC + Tri-Extrusion Polycarbonat

Cover length in m	Quantity Slats	Ø in mm with 140 mm shaft	Ø in mm with 170 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 Polycarbonat

Cover length in m	Quantity Slats	Ø in mm with 140 mm shaft	Ø in mm with 170 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 freight charges, shipping costs (on request) apply. Lifting platform required on site.



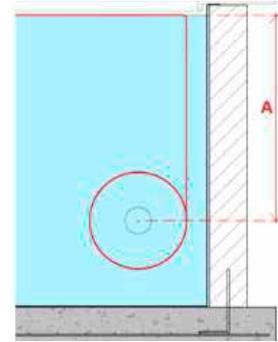
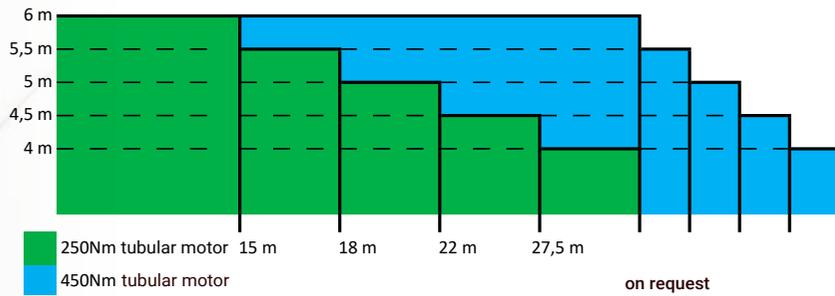


DRIVES FOR ROLLER SHUTTER COVERS REQUIRED MOTOR POWER FOR MAST(ER) SLATS

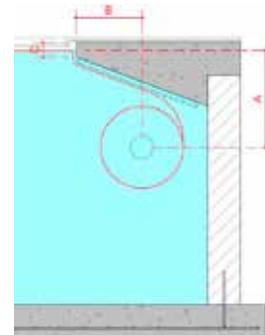
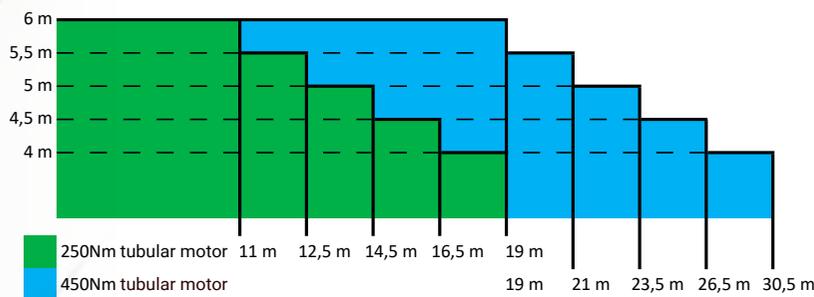


We will be happy to provide you with an individual offer. Under this QR code you will find a checklist that is required for a quotation.

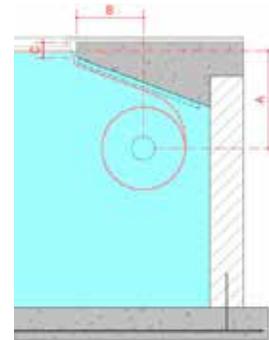
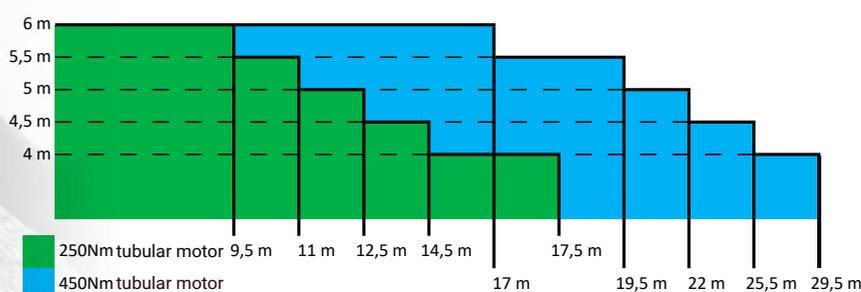
Max. Installation depth <0.8m



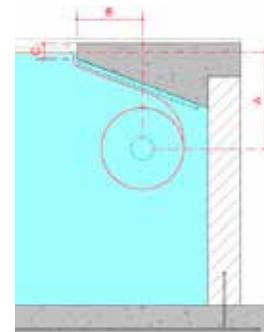
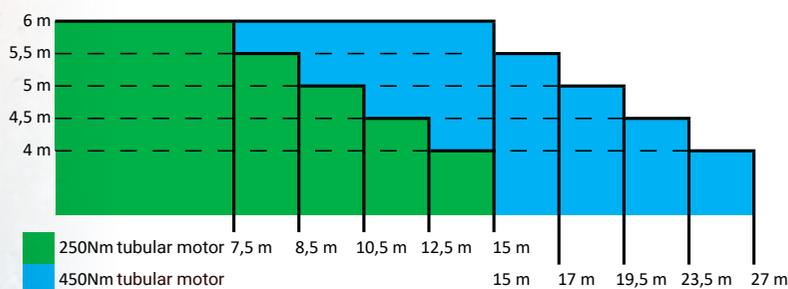
Max. Installation depth <0.6m



Max. Installation depth <0.8m

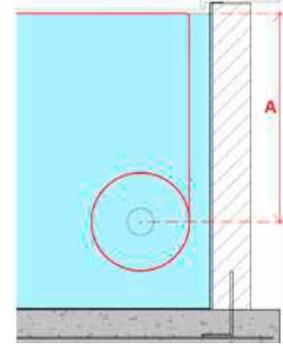
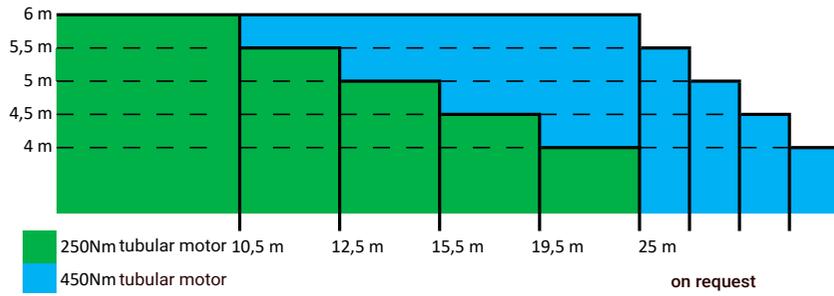


Max. Installation depth <1.0m

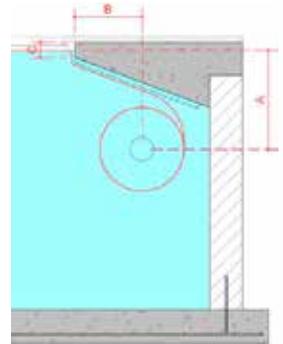
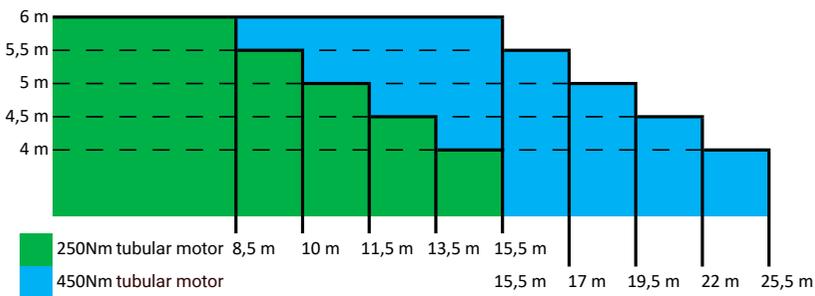


REQUIRED MOTOR POWER FOR CLEAN(ER) SLATS

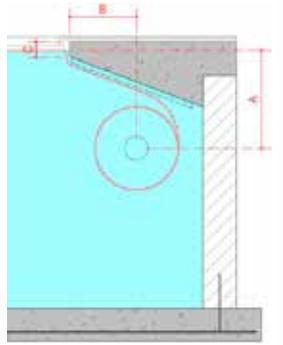
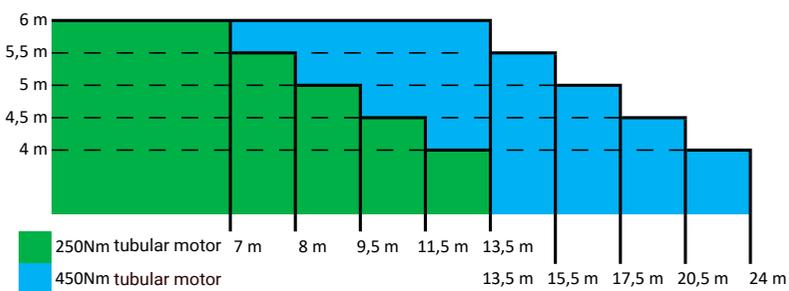
Max. Installation depth <0.8m



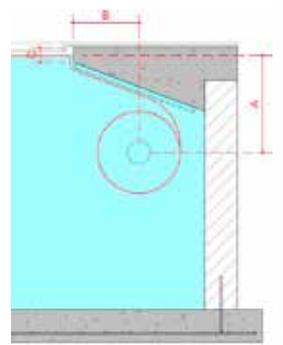
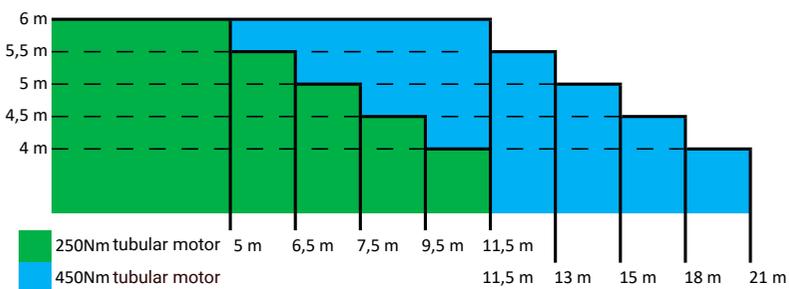
Max. Installation depth <0.6m



Max. Installation depth <0.8m



Max. Installation depth <1.0m



UNDERFLOOR MOUNTING KITS

UNDERFLOOR MOUNTING KITS

NEW

To accommodate the MIDA.Roll prefabricated mounting sets, made of stainless steel V4A/ AISI 316 (1.4404). The mounting set consists of pre-assembly and mounting flanges, required screws and accessories.



Article	Code
Underfloor installation set incl. wall anchor for concrete, liner and tiled pools	7200
Underfloor installation set for prefabricated basins	7201

COMPLETE UNDERFLOOR SYSTEMS



NEW

Automatic retractor for underwater installation, made of stainless steel V4A/AISI 316L (1.4404), with quality plastic POM-C. Simple installation, for new projects and existing pools. **Includes** control unit (prepared for key switch and radio remote control), 10 m cable and a key switch with 2 keys for safe operation. Suitable for prefabricated, concrete, tiled and liner pools. Conversion kits for existing systems from other manufacturers are available. Max. pool width: 6 m

INCLUDES
10 m cable*
+ key switch with 2 keys

Article	Shaft Ø	Motor	Code
Complete underfloor system	129 mm	250 Nm	7205
Complete underfloor system	168,3 mm	450 Nm	7206

*All motor units also available with 25m cable (#7210, catalog page 214) available.

ACCESSORIES

Article	Code
Surcharge 15 m additional cable (total length 25 m)	7210
2-channel radio and remote control	7131



#7131

MOUNTING KIT FOR UNDERFLOOR BENCH COVERS

NEW

For liner and tile pools. All stainless steel parts made of V4A/AISI 316 stainless steel. Consists of pre-assembly and assembly flanges, required screws and accessories

Article	Code
Underfloor seat bench cladding	7218

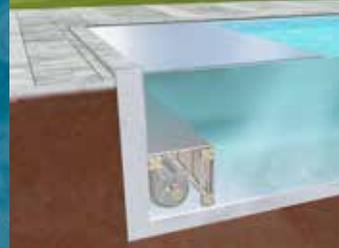


UNDERFLOOR BENCH COVERS



NEW

Underfloor bench cladding, plastic on both sides. **Including** substructure made of square wire tube. Max. Load capacity 250 kg.



Article	Code
Underfloor bench cladding up to 3.0 m pool width	7220
Underfloor bench cladding up to 3.5 m pool width	7221
Underfloor bench cladding up to 4.0 m pool width	7222
Underfloor bench cladding up to 5.0 m pool width	7223
Underfloor bench cladding up to 6.0 m pool width	7224

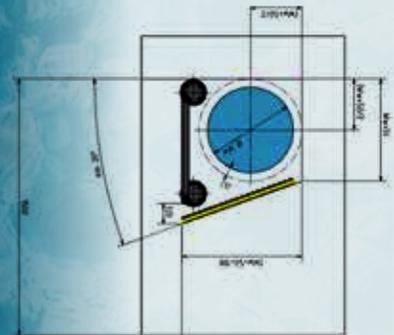


UNDERFLOOR ACCESSORIES



NEW

Underfloor bench cladding, plastic on both sides. **Including** substructure made of square wire tube. Max. Load capacity 250 kg.



Article	Code
Underfloor lintel beam 100 x 40 mm up to 4.0 m pool width	7230
Underfloor lintel beam 100 x 40 mm up to 5.0 m pool width	7231
Underfloor roller rail for rear bag chute	7232

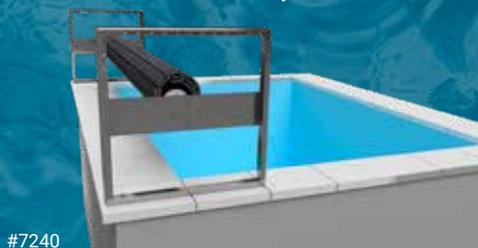


COMPLETE ABOVE-GROUND SYSTEM



NEW

A complete self-cladding set. Installation is simple and straightforward thanks to pre-drilled holes every 50 mm and four Ø11 mm pre-drilled holes for floor anchoring. The system consists of two stable, square stands (700 mm x 700 mm), a stainless steel tubular motor 120 Nm, 24V. **Including** 10 m cable and a winding shaft made of stainless steel tube. A key switch for control is included in the scope of delivery. The practical frame bracket can be clad individually on site. Optionally, the wooden cladding with Siberian larch can be ordered directly.



Article	Code
Above ground with frame bracket	7240
Above-ground wooden cladding (Siberian larch), per meter pool width	7241

Note: An above-ground system without frame for cladding is also available on request, e.g. #7124

Regardless of the usual freight charges, shipping costs (on request) apply.
Lifting platform required on site.

COVER STARLIGHT



INCLUDED
HAND CURB

Article	Code
STARLIGHT Color: Azure blue	66512
STARLIGHT color: night blue	66513
STARLIGHT Color: Swiss green	66514
STARLIGHT Color: Sand	66515
STARLIGHT Color: Mocha	66516
STARLIGHT Color: light grey	66517
STARLIGHT Color: anthracite grey	66518

COVER PRESTIGE



INCLUDED
HAND CURB

Article	Code
PRESTIGE Color: Azure blue	66505
PRESTIGE color: night blue	66506
PRESTIGE Color: Swiss green	66507
PRESTIGE Color: Sand	66508
PRESTIGE Color: Mocha	66509
PRESTIGE Color: light grey	66510
PRESTIGE Color: anthracite grey	66511

COVER INITIAL



INCLUDED
HAND CURB

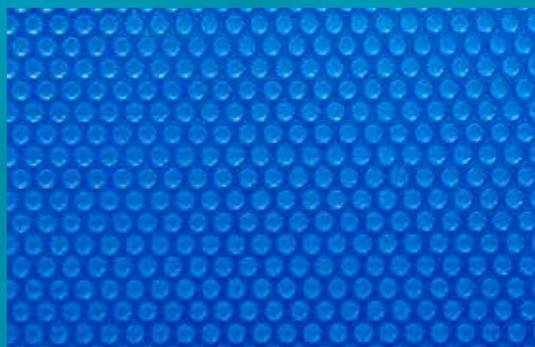
Article	Code
INITIAL color: Royal blue	66500
INITIAL color: Almond green	66501
INITIAL color: Sand	66502
INITIAL Color: Light grey	66503
INITIAL color: anthracite grey	66504

BUBBLE WRAP

CUSTOM-MADE BUBBLE WRAP

BLUE OR BLACK

Custom-made bubble wrap, made to the exact dimensions you require. The calculation is always based on rectangular dimensions (maximum length and maximum width). Tarpaulin cuts for round and oval pools are also possible.



Article	Calculation	Code
Custom-made bubble wrap made of PE film with individual air chambers, film thickness 400 µ. Color: black	per m ²	6660
Custom-made bubble wrap made of PE film with individual air chambers, film thickness 400 µ. Color: blue	per m ²	6661
Ø 32 Pull loop with eyelets and rope for floating tube	per Piece	6662
Eyelet for attaching tarpaulin or pull rope	per Piece	6663
Edge reinforcement (straight sides only) Color: black	per running meter	6664
Draw tube Ø 32 mm in Pieces 120 cm with sockets, caps and adhesive (please specify length when ordering)	per Piece	6665
Pull rope for bubble wrap	per running meter	6666
Cut round	per Piece	6668

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

RETRACTOR

Mobile roll-up device made of aluminum, **including** strap set for attaching a pool cover. Adjustable from 2.10 m - 5.40 m. Shaft diameter 80 mm



Article	Code
Mobile retractor	2321

08



SWIMMING POOL EQUIPMENT



Experience the exciting variety of our swimming pool equipment! Carefully selected highlights cover all your needs and offer you the best equipment for your pool.

In these special times, the haptic experience of pool materials is of central importance. Immerse yourself in a world full of dynamism and discover how high-quality products can take your swimming pool experience to a new level!

OVERVIEW



■ GFK-STAIRS

- P. 218 Elegance 60
- P. 219 Elegance 80
- P. 220 Kanto 250-KL

■ SHAFT COVERS & GRATING & LADDERS

- P. 221 Shaft covers
- P. 222 Grating
- P. 224 Ladders

■ SPLASH SHOWERS

- P. 226 Splash shower Costa
- P. 226 Splash shower Cascade Rain
- P. 227 Splash shower Texas
- P. 227 Surge pipe Flexi
- P. 228 Splash shower Tropic
- P. 229 Splash shower Caribic

■ SUCTION UNITS & PIEZO SWITCH

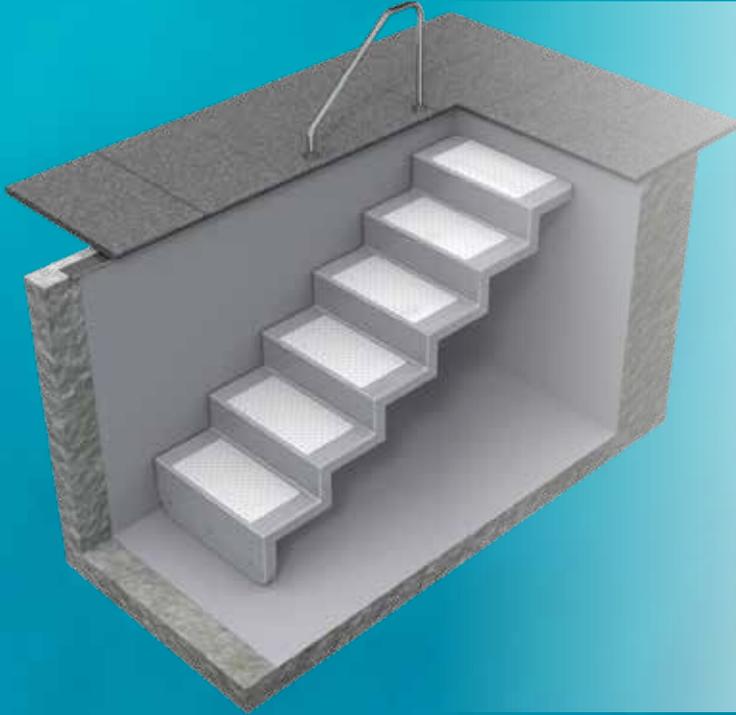
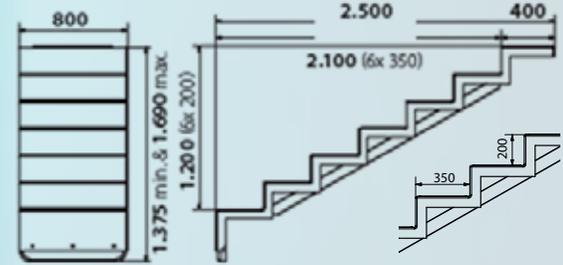
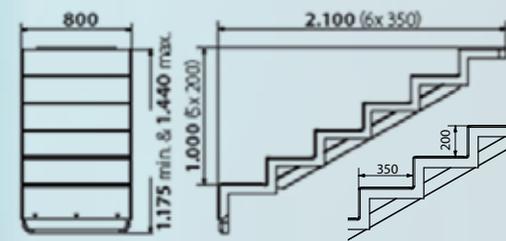
- P. 230 Intakes
- P. 231 Piezo switch
- P. 231 Piezo circuits

■ AIR BLOWER

- P. 231

■ SOLAR SHOWERS

- P. 232 Solar shower Trinidad
- P. 233 Solar shower Romeo

ELEGANCE 80

LONG (POOL EDGE)

SHORT (POOL WALL)

LONG VERSION

800 x 1.580 mm, 6 steps

Color	Code
white	0131
sea blue	0133
sand	0135
azure blue	0137
silver gray	0139
granite	0141

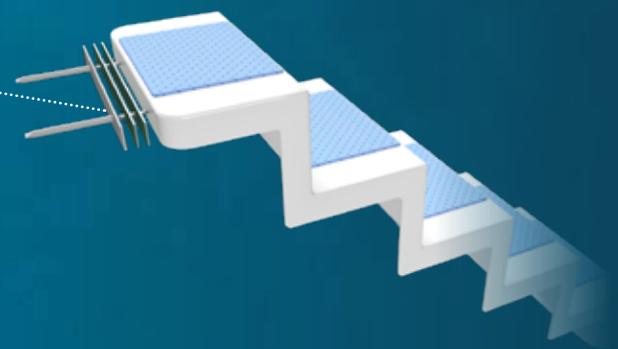
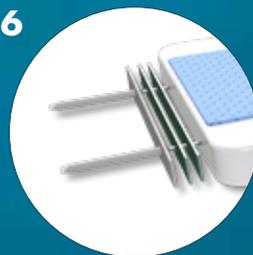
SHORT VERSION

800 x 1.300 mm, 6 steps

Color	Code
white	0130
sea blue	0132
sand	0134
azure blue	0136
silver gray	0138
granite	0140

Article	Code
Elegance steps in contrasting colors*	0155

* Specify color when ordering.

WALL ANCHOR V4A/AISI 316
 FOR ELEGANZ 60 + 80 (SHORT ONLY)


Article	Code
Wall anchor	0154

SHAFT COVERS

SHAFT COVERS

Modern lightweight manhole cover.

Great weight saving compared to manhole covers with concrete filling.

The sump is lifted using the hinge and the effort required is significantly reduced. With fall protection device.

As there is no need to fill the tray with concrete, installation is quicker and easier. A free height of 24 mm is available for covering with slabs, tiles, parquet, etc. For thin tiles, the height must be leveled using suitable tile adhesive and waterproof building boards. Odor-proof and largely waterproof design in very high processing quality. Very attractive surface, especially the visible edges. Inconspicuous corner connectors facilitate the connection of tiles and boards etc. Opening with the lift-off system via the hinge or with the support of gas pressure dampers.

Note: This manhole cover is **not** completely watertight.

Particular care must be taken on site to ensure a tight connection on the outside of the frame. Attach slabs or tiles tightly (over the entire surface) with suitable tile adhesive. For thin tiles or slabs, use waterproof building boards for height compensation.

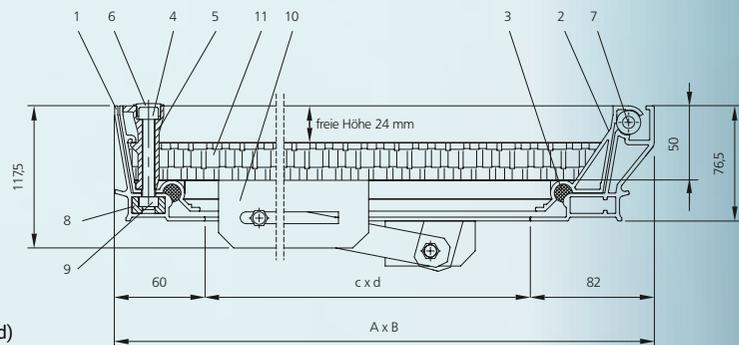
- Load: Class A (15 kN test load) EN 124
- Material: Frame made of extruded aluminum profiles, tray made of extruded aluminum profiles bonded with composite aluminum honeycomb panel (coated white)
- Stainless steel screw connection
- EPDM seal
- Removal key **included**



#06403
#06402



- 1 - Frame
- 2 - Tub
- 3 - Seal
- 4 - Hexagon socket screw (V2A 1.4301 Stainless steel)
- 5 - Cast part aluminum
- 6 - Cover cap (plastic)
- 7 - Hinge
- 8 - Injection part (plastic)
- 9 - Square nut (V2A 1.4301 Stainless steel)
- 10 - Fall protection device
- 11 - Aluminum honeycomb panel (white coated)



WITH LIFT OFF SYSTEM

OPTIMUM OPENING COMFORT THANKS TO GAS PRESSURE DAMPER

Article	Clear Shaft dimension	Outer Dimensions	Weight unfilled	Code
Shaft cover with hinges & gas pressure damper	60 x 60 cm	72 x 74 cm	12 kg	06403
Shaft cover with hinges & gas pressure damper	80 x 80 cm	92 x 94 cm	17 kg	06402

WITH HINGES

Article	Clear Shaft dimension	Outer Dimensions	Weight unfilled	Code
Shaft cover with hinges	60 x 60 cm	72 x 74 cm	12 kg	06400
Shaft cover with hinges	80 x 80 cm	92 x 94 cm	17 kg	06401

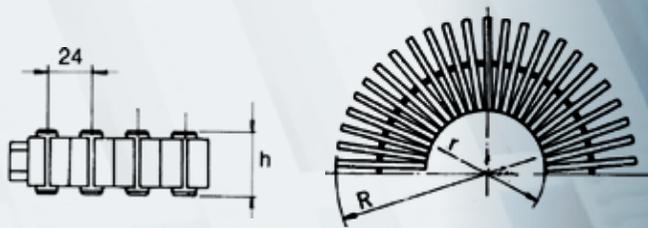


GRATING

GRATING FOR ROUND MODEL

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

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



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

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

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



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

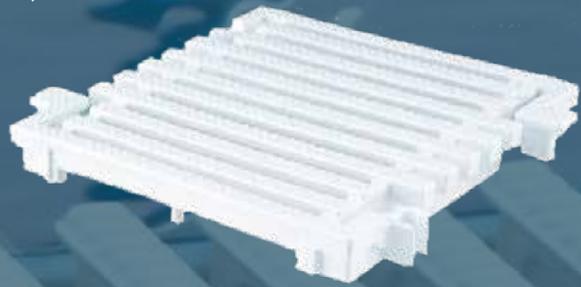
Article	Packing	Code	Weight
Fastening cable stainless steel	1	360	21,0 kg
Endpiece for cable fixing	1	361	1,50 kg

GRATING PLATE

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

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

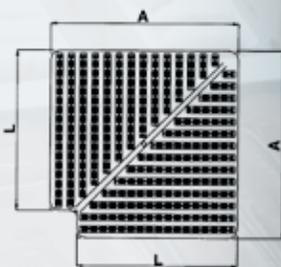
Heigth x width mm	Packing	Code	Weight
22 x 245	52	363	0,438 kg
22 x 295	45	364	0,513 kg
22 x 335	38	365	0,579 kg



CORNER TILE 90°

Made of polypropylen

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



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	Weight
Guide Rail	25	379	0,56 kg



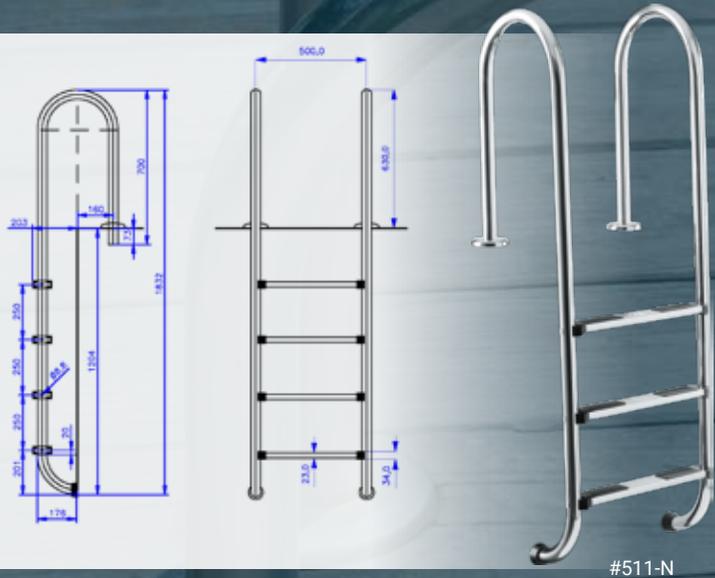


LADDERS STAINLESS STEEL V2A/AISI 304

DEEP BASIN LADDER (STAINLESS STEEL V2A/AISI 304) ACCORDING TO DIN EN 16582-1

Material: Stainless steel V2A/AISI 304, polished, rail Ø 42.4 mm, non-slip profiled step, tread depth 80 mm, vertical step spacing 250 mm, width of center rail 500 mm, projection behind pool edge approx. 180 mm, rail height above pool edge approx. 630 mm. Max. load 120 kg. The steps each have 2 anti-slip EPDM inserts.

SPAR CURVED NARROW

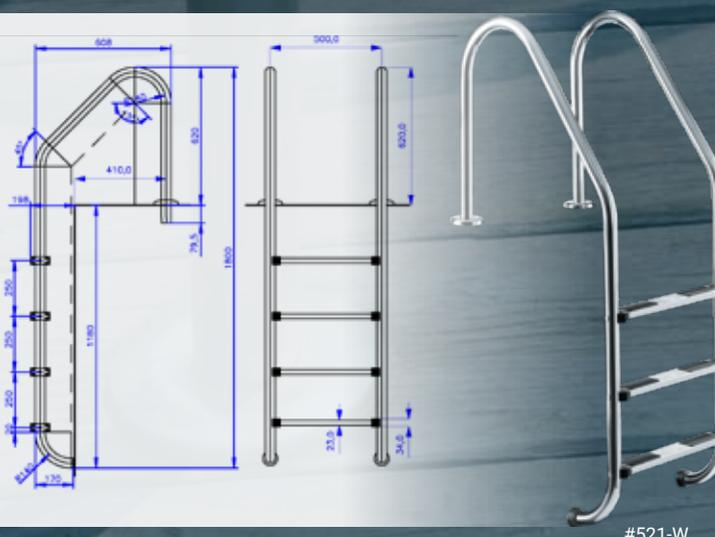


Number of steps	Height	Code
2	694 mm	510-N*
3	959 mm	511-N*
4	1224 mm	512-N*
5	1489 mm	513-N*

*Not suitable for salt electrolysis.

#511-N

HOLM BENT WIDE



Number of steps	Height	Code
2	694 mm	520-W*
3	959 mm	521-W*
4	1224 mm	522-W*
5	1489 mm	523-W*

*Not suitable for salt electrolysis.

#521-W

ACCESSORIES (FOR SPAR CURVED NARROW AND SPAR CURVED WIDE)

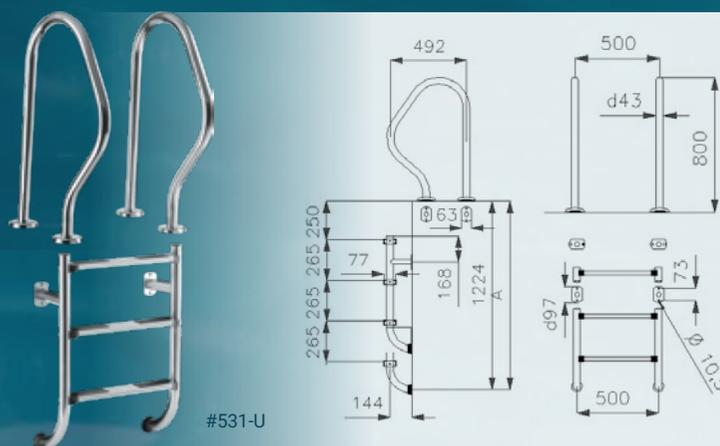
Article	Code
Flange mounting set stainless steel V2A/AISI 304, 1 pair for narrow and wide ladders	510

ACCESS LADDER SPLIT (STAINLESS STEEL V2A/AISI 304) ACCORDING TO DIN EN 16582-1 2-PART

Material: Stainless steel V2A/AISI 304, polished, stile $\varnothing 43$ mm,
Steps made of stainless steel V2A/AISI 304, non-slip profilet
max. load: 120 kg,
Step depth approx. 80 mm,
vertical step spacing: 250 mm,
Width center rail: 500 mm.

Number of steps	Height	Code
3	959 mm	531-U*
4	1224 mm	532-U*

*Not suitable for salt electrolysis.



HIGH BASIN LADDER (STAINLESS STEEL V2A/AISI 304) ACCORDING TO DIN EN 16582-1 *

Material: stainless steel V2A/AISI 304, polished, stile $\varnothing 42$ mm, steps and platform made of plastic, step depth approx. 80 mm, step depth platform approx. 300 mm, max. load: 120 kg, vertical step spacing 230 mm, width center stile 500 mm, stile height above platform approx. 500 mm. The steps are ribbed.

Number of steps	Pool height	Code
3/3	1,00 m	515-H*
4/4	1,20 m	516-H*
5/5	1,50 m	517-H*
4/1	1,20 m	518-H*
5/1	1,50 m	519-H*

Not suitable for salt electrolysis.

max. 150 mg/l chloride content for stainless steel V2A/AISI 304



HANDLE (STAINLESS STEEL V2A/AISI 304)

Height 850 mm, projection 1200 mm, upright $\varnothing 43$ mm, polished stainless steel V2A/AISI 304

Article	Code
Grip bow	510.1*

*Not suitable for salt electrolysis.



#510.1

TILTING JOINT FOR LADDER

Mounting set for ladder tilting joint $d=43$ mm
Flange mounting for pool ladder
Stainless steel V2A/AISI 304 narrow/wide, 1 pair.
For narrow pool ladder, not suitable for wide pool ladder.

Article	Code
Tilt joint	511*

*Not suitable for salt electrolysis.

max. 150 mg/l chloride content for stainless steel V2A/AISI 304



#511



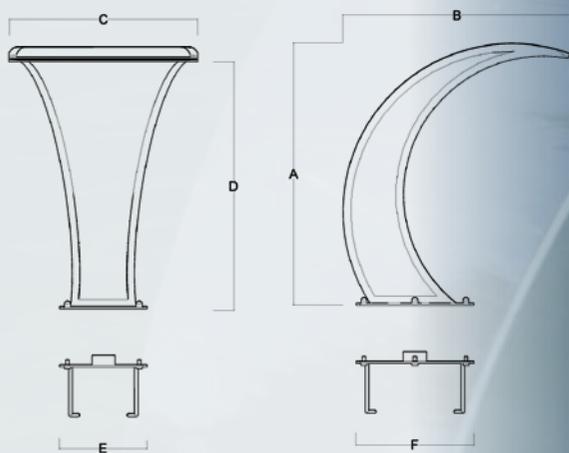
SPLASH SHOWERS



SPLASH SHOWERS COSTA

- Water connection with 2" internal thread
- Material stainless steel V4A/AISI 316
- Pumps: see from catalog page 48

Included
FLOOR PLATE



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

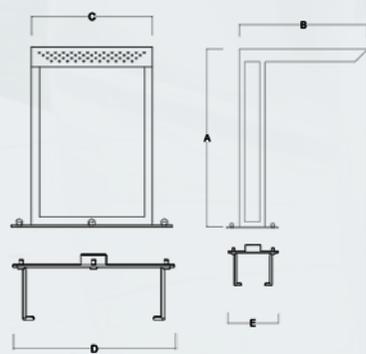
Model	recommended pump capacity	Code
Costa 300	5 – 18 m³/h	01.20
Costa 500	6 – 21 m³/h	01.21
Costa 700	7 – 24 m³/h	01.22
Costa 1000	9 – 29 m³/h	01.23



SPLASH SHOWERS CASCADE AND CASCADE RAIN

- Water connection with 2" internal thread
- Material stainless steel V4A/AISI 316
- Pumps: see from catalog page 48

Included
FLOOR PLATE



Cascade



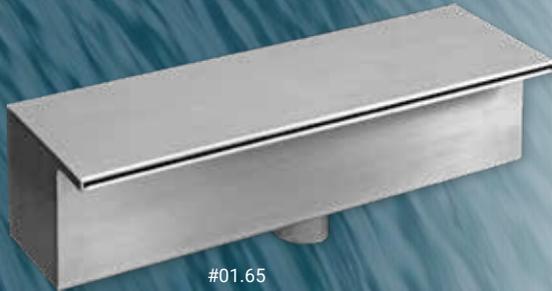
Cascade Rain

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

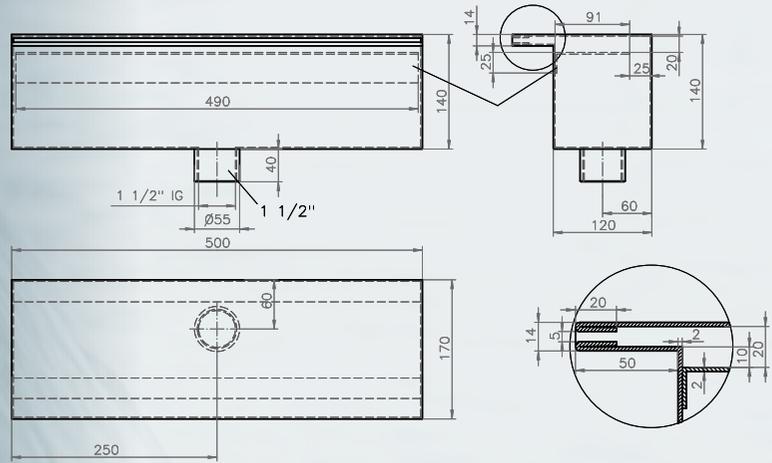
Model	recommended pump capacity	Code
Cascade 300	5 – 18 m³/h	01.50
Cascade 500	6 – 21 m³/h	01.51
Cascade 700	7 – 24 m³/h	01.52
Cascade 1000	9 – 29 m³/h	01.53
Cascade Rain 300	5 – 18 m³/h	01.55
Cascade Rain 500	6 – 21 m³/h	01.56
Cascade Rain 700	7 – 24 m³/h	01.57
Cascade Rain 1000	9 – 29 m³/h	01.58

SPLASH SHOWERS TEXAS

- For wall mounting
- Water connection with 1" female thread
- Material stainless steel V4A/AISI 316 polished
- Height approx. 140 mm
- Outlet approx. 490 mm
- Pumps: see from catalog page 48



#01.65

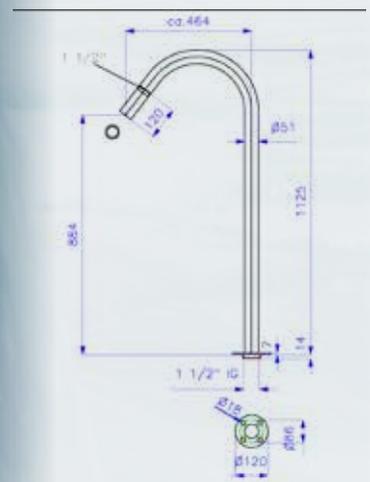


Model	Recommended pump capacity	Code
Texas	2-3 m ³ /h	01.65

SURGE PIPE FLEXI

Refreshment, massage and fun - the stainless steel waterfall pipes offer a variety of options. The very sturdily constructed stainless steel surge pipes have a pipe diameter of 51 mm and a height of approx. 110 cm. You can choose from four different jet inserts. Round jet, round - six-jet, flat jet and flat - four-jet. The nozzle inserts are already fitted and sealed at the factory. A pump capacity of approx. 8 m³/h is recommended.

- Water connection with 1 1/2" internal thread
- Surge 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 48



TYP A - Round beam



TYP B - Round 6-beam



TYP C - Flat beam



TYP D - Flat 4-beam

Model	Recommended pump capacity	Code
Typ A	8 - 10 m ³ /h	11.00*
Typ B	8 - 10 m ³ /h	11.06*
Typ C	8 - 10 m ³ /h	11.11*
Typ D	8 - 10 m ³ /h	11.14*

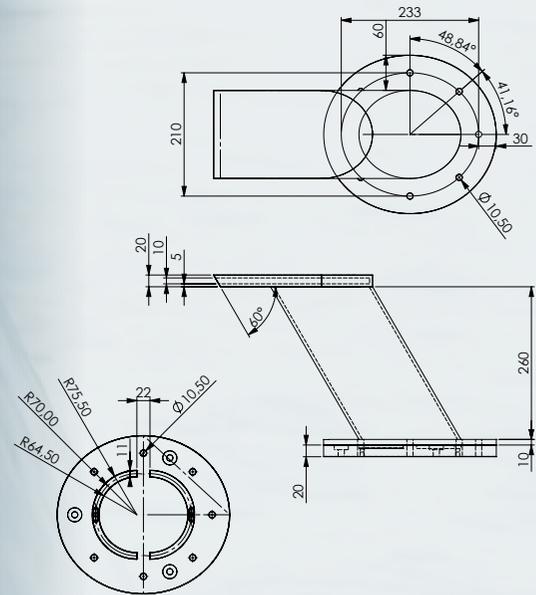
Not suitable for salt electrolysis.

SPLASH SHOWER CARIBIC

Transparent, light and elegant - the CARIBIC waterfall shower is a real eye-catcher. Made of clear acrylic glass, this attraction not only offers a clear view of the flowing waterfall. The clear structures and the stable, elegant acrylic glass form a perfectly shaped unit. The built-in LED/RGB lights allow you to experience a firework display of colors even at dusk, which you can control individually using the remote control.

- Only 300 mm high, but not to be overlooked
- Fits under many sliding halls
- A highlight at night, brilliant during the day
- With LED lighting, including remote control
- Suitable for electrolysis pools
- Splash shower body made of transparent acrylic
- PVC counterflange (1 1/2" female thread in PVC counterflange)
- Flow rate between 3 and 12m³/h
- 150 mm wide outlet
- Pumps: see from catalog page 48

Installation: The counter flange is attached to the edge of the pool with 3 screws, the splash shower is then attached to the counter flange with 7 screws. The counter flange is 20 mm thick so that it can also be "tiled in", for example, and then disappears into the floor. The counter flange and the flange on the splash shower are oval, i.e. 293 mm long and 270 mm wide.



Swimming Pool Equipment
08

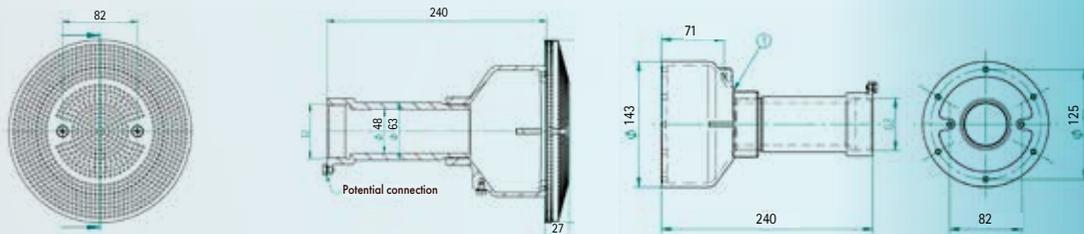
Model	Recommended pump capacity	Code
Caribic	10m ³ /h	01.75



SUCTION UNITS, PIEZO SWITCHES & PIEZO SWITCHES

INTAKE 2"/DN 50

for liner, tile and prefabricated pools, with stainless steel V4A/AISI 316 suction strainer and bronze flange set for the separate water circuit for waterfall showers or other water attractions hair trap-safe in accordance with DIN EN 13451 and 16713



#9833
#9834



Material	Connection	Diameter	Max. flow rate	Code
Gunmetal*	DN50/2"	200 mm	9,7 m³/h	9833
Bronze**	DN50/2"	200 mm	9,7 m³/h	9834

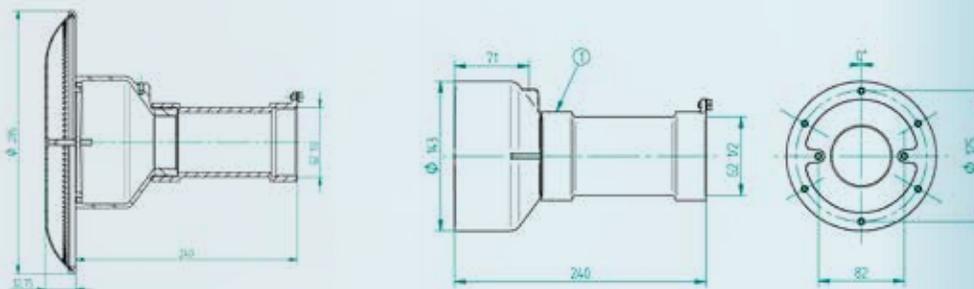
* not suitable for salt electrolysis

** max. salt concentration: 6 %

max. 750 mg/l chloride content for V4A/AISI 316 stainless steel

INTAKE 2 1/2"/DN65

for liner, tiled and prefabricated pools, with stainless steel V4A/AISI 316 suction strainer and bronze flange set for the separate water circuit for splash showers or other water attractions hair trap-proof in accordance with DIN EN 13451 and 16713



#9831
#9832



Material	Connection	Diameter	Max. flow rate	Code
Gunmetal*	DN65 / 2 1/2"	280 mm	19,1 m³/h	9831
Bronze**	DN65 / 2 1/2"	280 mm	19,1 m³/h	9832

* not suitable for salt electrolysis

** max. salt concentration: 6 %

max. 750 mg/l chloride content for V4A/AISI 316 stainless steel

PIEZO SWITCH INSERT

LED lighting **included**. For liner, tile, polystyrene, concrete and prefabricated pools, incl. 5 m cable, for switching water attractions on and off, for example, one of the following piezo switches in 230 V or 400 V is also required.

For liner and tiled pools: with built-in pot in gunmetal or bronze, with cover made of stainless steel V4A/AISI 316/ and flange set made of bronze. For prefabricated basins: with 1" lock nut and hose nozzle.

Suitable for	Material	Code
Concrete, tile and foil pools	Gunmetal*	986-8
Concrete, tile and foil pools	Bronze**	986-8B
Prefabricated basin	Gunmetal*	986-9
Prefabricated basin	Bronze**	986-9B

*not suitable for salt electrolysis

**max. salt concentration: 6 %

max. 750 mg/l chloride content for V4A/AISI 316 stainless steel



#986-8



#986-9

PIEZO CIRCUITS

Switch box between the piezo switch and the pump to be controlled

Voltage	Power	Protection	Code
230 V	for 1,1 + 1,3 kW	5,5 -7,5 A	986-18
230 V	for 1,5 + 2,0 kW	9,0 -11 A	98311
400 V	for 1,1 kW	2,3 - 3,2 A	98314
400 V	for 2,2 kW	4,0 - 6,0 A	98313



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 inlet and outlet silencers.



Code	Max. Flow m³/h	kW	HP	V	dB	Connections	Weight	Applications
790M	145	0,85	1,2	230	63	1 1/2"	16,0 kg	10 Jets
790T	145	0,85	1,2	400	63	1 1/2"	16,0 kg	10 Jets
791M	145	1,3	1,8	230	63	1 1/2"	17,0 kg	10 Jets
791T	145	1,3	1,8	400	63	1 1/2"	17,0 kg	10 Jets
792M	210	1,3	1,8	230	64	2"	22,0 kg	20 Jets
792T	210	1,3	1,8	400	64	2"	22,0 kg	20 Jets
793M	210	1,5	2,0	230	64	2"	24,0 kg	20 Jets
793T	210	1,6	2,2	400	64	2"	23,0 kg	20 Jets
794T	318	2,2	3,0	400	69	2"	30,0 kg	20 Jets
795T	318	3,0	4,0	400	69	2"	36,0 kg	20 Jets



SOLAR SHOWERS / SHOWERS

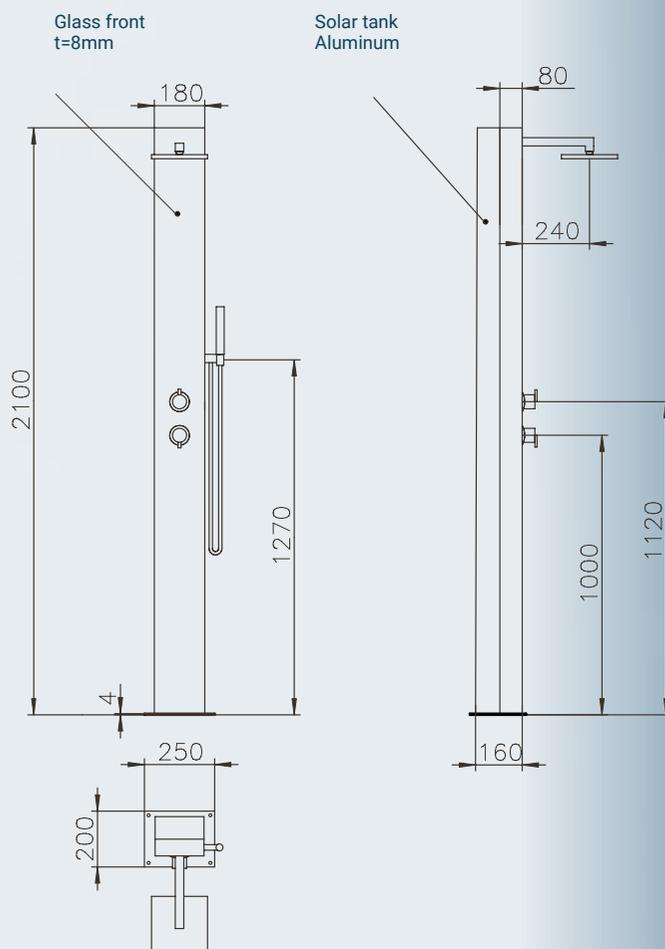


SOLAR SHOWER TRINIDAD

Flexible in use, pleasantly warm shower water and modern design - these are just some of the highlights that speak for the TRINIDAD solar shower. The shower is made of high-quality materials, with stainless steel and an aluminum water tank setting high-quality accents. The water tank is heated by the sun's rays.

You can use the single-lever mixer to regulate the water temperature that is most comfortable for you. The water is connected via a garden hose system (Gardena or similar) either from the side or from below. Of course, this solar shower also has a hand shower that can be controlled separately.

- Material: Stainless steel V2A/AISI 304, safety glass 8 mm
- Water tank: aluminum, painted on the outside
- Water tank capacity: approx. 25 liters
- Height from floor to shower head: approx. 2,050 mm
- Fitting: Chrome-plated brass
- Function: Overhead and hand shower
- Water connection: Water hose system (Gardena, or similar)
- Weight: approx. 35 kg (unfilled)
- Fixing: Floor flange
- Base plate available on request



Article	Code
Trinidad solar shower	11.18

09



INSTALLATION PARTS



Barely visible, but of crucial importance - built-in parts play a key role in your pool. They are the invisible heroes behind the pool wall, ensuring optimum flow and water movement. Whether they are floor drains, swivel inlet nozzles in accordance with DIN EN 16582-1/4.5.2.2 or wall ducts - these products are indispensable for the smooth functioning of any pool.

With MIDAS installation parts, you are making the right choice for sustainable quality. Our products are made from high-quality materials such as gunmetal, stainless steel, bronze or plastic to provide you with a durable and reliable solution. Rely on the invisible but indispensable components from MIDAS and give your pool optimum performance and quality that you can always rely on.

OVERVIEW



SKIMMER & ACCESSORIES

- P. 236 Slim Line Skimmer stainless steel
- P. 237 Automatic water level control Badu BNR 402
- P. 237 Automatic water level control Badu BNR 300
- P. 244 Skimmer gunmetal/bronze with 240 mm installation depth
- P. 238 MIDA.Slim Skimmer
- P. 240 ABS Skimmer



INLET NOZZLES & FLOOR DRAINS

- P. 241 Inlet nozzles
- P. 242 Floor drains



SKIMMER



SLIM LINE SKIMMER

MATERIAL: MADE ENTIRELY OF STAINLESS STEEL V4A/AISI 316L

ELEGANCE IN STAINLESS STEEL

This Slim Line skimmer has an exclusive design and enables a high water level.

Good circulation of the pool and efficient suction of the water surface is possible with this model.

The material is also very robust, durable and resistant to chemicals. The polished front gives it a special shine.

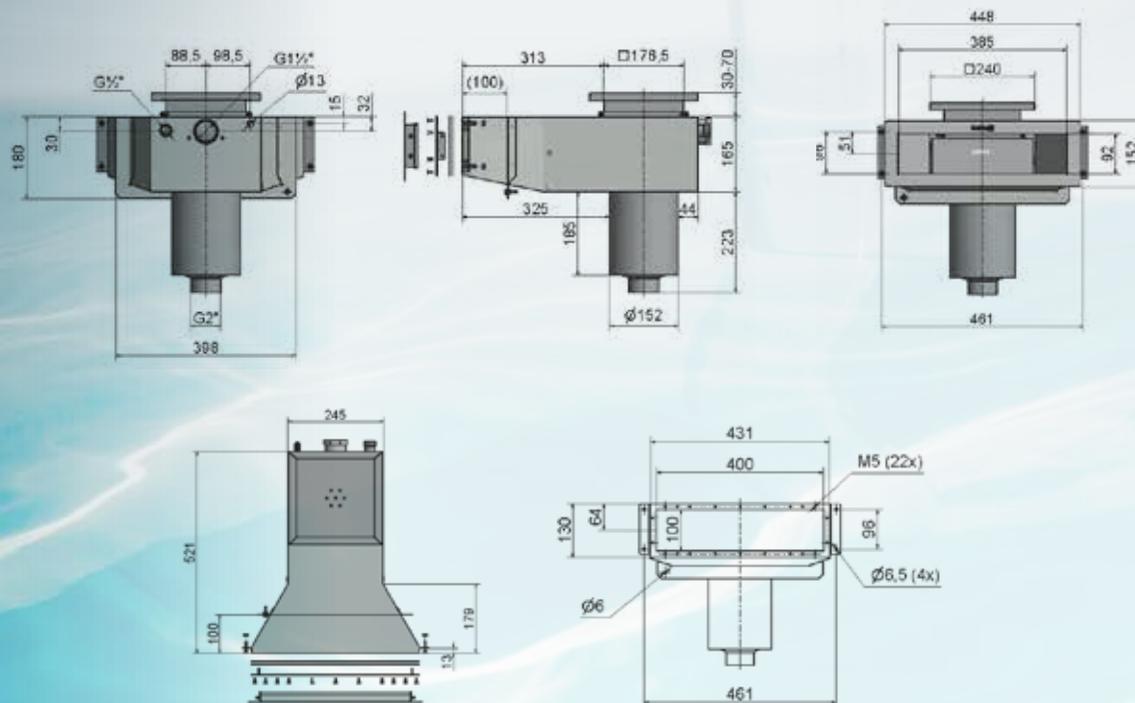
No screws are visible in the top view of the front panel, which ensures an elegant appearance.

- Suction opening 385 x 92 mm (448 x 152 mm outside)
- Polished visible surface without screws
- Skimmer weir also in V4A stainless steel
- Integrated wall collar
- For concrete and tiled pools (# 0258), including flange, seals and M5x12 screws for liner pools
- For prefabricated pools with 6° slope (# 0259)
- 2" female thread connection, vertical
- 1 1/2" IG connection as overflow
- 1/2" IG connection for refilling
- d=13mm connection for level controller
- Installation depth complete: 521 mm
- Depth of skimmer neck: 313 mm
- Max. flow rate: 12 m³/h
- Large-volume and powerful filter basket
- Height-adjustable collar 30-70 mm



#0258 + #0259

We recommend #M-068 or #M-065 as a water level control (catalog page 237)



Article	Code
Slim Line Skimmer V4A for concrete and liner pools	0258*
Slim Line Skimmer V4A for prefabricated pools with 6° slope	0259*

SPECK BADU BNR 402

AUTOMATIC WATER LEVEL CONTROL WITH TWO CONDUCTIVE SENSORS

The BNR 402 replaces the previous BNR 400, but the range of functions has been extended. A large number of new functions have been introduced in the BNR 402 to make pool operation easier. This enables a much wider range of applications compared to the BNR 300 or BNR 400.

Up to 3 pools or splash water tanks can be controlled and it can be used for splash water control. In addition, there is a water consumption meter, a pump-out function in the event of too much rain, the control of our BADU Green pumps, the use with flat skimmers, the connection of a water detector for the technical room and a function for convenient initial filling of the pool. +There is also a random control for fountains, for example. The BNR 402 can also work together with an external control unit. With this control unit, the conductive sensor can be installed up to 80 m away from the control unit.

Technical data	
Temperature range	0°C - 40°C
Nominal voltage	1~ 230 V, 50/60 Hz
Relay switching capacity	4,0 A bei 1~ 230 V
On/off delay	ca. 1-4 min.
Cable length	10 m
Cable cross-section	2 x 1,5 mm ²
Level voltage	ca. 12 V

Article	Code
Speck BADU BNR 402	M-068



SPECK BADU BNR 300

AUTOMATIC WATER LEVEL CONTROL WITH FLOAT SWITCH

This device is used to control the water level in swimming pools and whirlpools. For this purpose, a desired water level is set as the target value by adjusting the sensor to the corresponding height or moving it along the rail. A float detects when the water level falls below the set target level. If the water level falls below this value for a certain period of time, e.g. after filter backwashing, a solenoid valve, which is included in the scope of delivery, is activated. This causes fresh water to flow into the pool until the desired fill level is reached again. In contrast to previous level controls, the BNR 300 can also activate a safety cut-out. After an adjustable maximum switch-on time (30-120 min.), the activation of the solenoid valve is automatically interrupted. In the event of a jammed level switch, this prevents the solenoid valve from remaining permanently switched on.

Including solenoid valve 1/2"

Including float switch with 10 m cable and

Height-adjustable mounting rail

230V, protection class IP40, dimensions: 163 x 110 x 52 mm

Technical data	
Temperature range	0°C - 40°C
Nominal voltage	1~ 230 V, 50/60 Hz
Relay switching capacity	4,0 A bei 1~ 230 V
On/off delay	ca. 1-4 min.
Cable length	10 m
Cable cross-section	2 x 0,25mm ²
Float switch	waterproof

Article	Code
Speck BADU BNR 300	M-065





SKIMMER WITH 240 MM INSTALLATION DEPTH

MATERIAL: GUNMETAL OR BRONZE

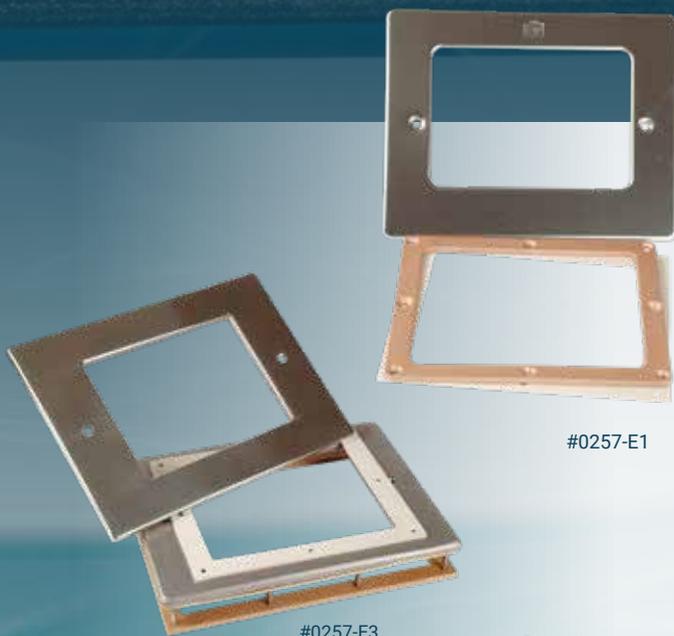
- Suction opening 200 x 155 mm (250 x 200 mm outside)
- Compact installation dimensions, for flush formwork installation
- Solid construction, therefore very robust and durable
- Integrated wall collar and threaded bushes for fastening the flange
- For concrete and tiled pools
- Flange set # 0257-E1 required for tiled pools, V4A cover 290 x 230 mm
- Flange set # 0257-E3 required for prefabricated pools, V4A cover 328 x 243 mm
- Installation depth: 240 mm
- Depth of skimmer neck: 52 mm
- Connection: 2" female thread (horizontal outlet)
- Flow rate: max. 10 m³/h
- Overflow connection: 1 1/2" female thread

Optional extras include:

- Extensions to the front, also with larger suction opening (350 mm)
- Suction plate for connecting a floor cleaner
- Mechanical water level regulator (separate installation part) or electronic water level regulator

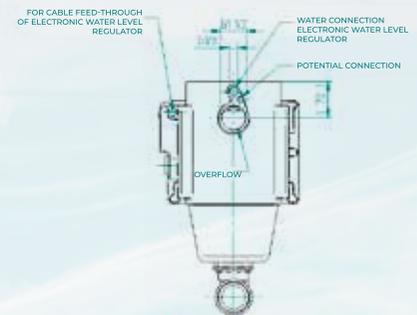
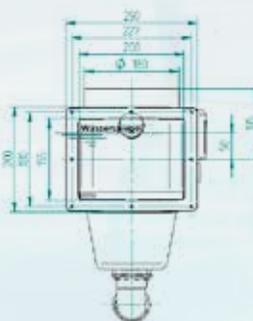
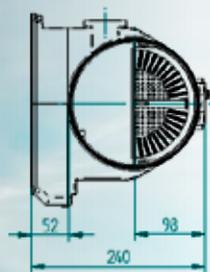


#0257 + #0257-B



#0257-E1

#0257-E3



Article	Code
Hugo Lahme skimmer gunmetal, with 2" connection	0257*
Hugo Lahme bronze skimmer, with 2" connection	0257-B**
Hugo Lahme bronze skimmer flange set for liner pools	0257-E1**
Hugo Lahme bronze skimmer flange set for prefabricated pools	0257-E3**

*Not suitable for salt electrolysis

**max. salt concentration: 6 %

MIDA.SLIM SKIMMER

MATERIAL: ABS PLASTIC

EXKLUSIV MIDAS

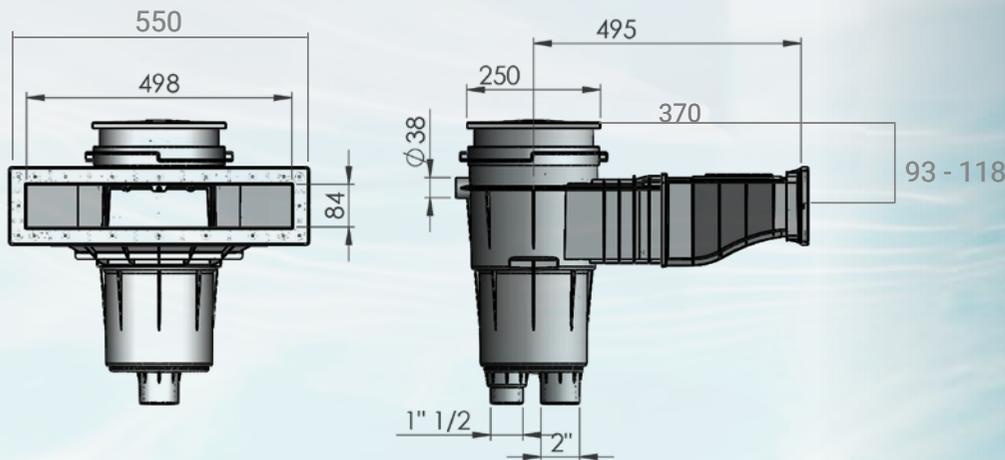
- Suction opening: 498 x 95 mm (550 x 135 mm outside)
- Impresses with its new design and modern functionality
- Particularly robust, made from high-quality ABS
- **Includes** ABS cover panel for concrete basins or with flange, seals, stainless steel V4A screw set and cover panel for installation in liner, GRP, PP and and segmented pools
- With integrated threaded bushes for fastening the flange (longer screws must be used for prefabricated pools depending on the wall thickness)
- Color: white
- Installation depth: 620 mm
- Depth of skimmer neck: 370 mm
- Connection: 2" and 1 1/2" internal thread (vertical outlet)
- Flow rate: 7 - 10 m3/h
- Device for overflow connection 32 mm
- 25 mm height-adjustable cover to adapt to the edge of the pool



#0254



#0254-E1



Article	Code
MIDA.Slim ABS plastic skimmer for liner pools (including flange set)	0254
Cover made of stainless steel V4A/AISI 316L for MIDA.Slim Skimmer ABS Suction opening: 495 x 78 mm, dimensions: 560 x 140 x 17 mm	0254-E1*

*Not suitable for salt electrolysis

**ABS WIDE-MOUTH SKIMMER DELUXE**EXKLUSIV
MIDAS

Material: ABS plastic, surface skimmer for liner and prefabricated pools, universal skimmer connection with adhesive sleeve d 50 (sealed) and 1 ½" female thread, 2" male thread, with brass bushes

Overflow connection Ø 40 mm,
Flap opening 353 x 167 mm,
Flow rate 7 m³/h. Color: white



0250FG

Suitable for	Code
Foil/finished basin (flange set)	0250FG

Depending on the wall thickness, longer screws must be used for prefabricated basins.

**ABS SKIMMER STANDARD**EXKLUSIV
MIDAS

Material: ABS plastic, surface skimmer for liner and prefabricated pools, universal skimmer connection with adhesive sleeve d 50 (sealed) and 1 ½" female thread, 2" male thread, with brass bushes,

Overflow connection Ø 40 mm,
Flap opening 208 x 140 mm,
Flow rate 7 m³/h. Color: white



#0249FG

Suitable for	Code
Foil/finished basin (flange set)	0249FG

Depending on the wall thickness, longer screws must be used for prefabricated basins.

**ABS MINI SKIMMER**EXKLUSIV
MIDAS

Material: ABS plastic, with inlet nozzle, suction plate and cover, Skimmer connections with Ø 32 mm and Ø 38 mm, ABS, supplied with flange, seals and screws,

Suitable for all steel wall pools,
Flow rate 5 m³/h.
Color: white



Suitable for	Code
Steel wall pool	620-S

Spare parts for skimmer #0250FG, #0249FG and #620-S available on request.

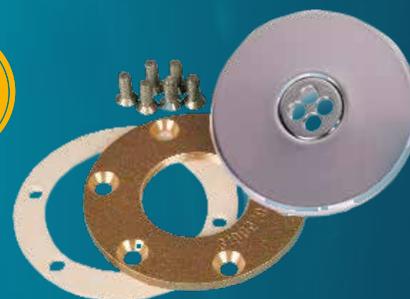
INLET NOZZLES AND FLOOR DRAINS

INLET NOZZLES FLANGE SET

With cover and ball 4 x 8 mm, material: stainless steel V4A/AISI 316L for wall ducts Article 03.32, 03.32-B, 03.33, 03.33-B, 03.00 and 03.00-B.

Suitable for	Material	Code
Foil basin (including flange set)	Bronze**	03.34-B

**max. salt concentration: 6 % max. 750 mg/l chloride content for V4A stainless steel



#03.34-B

INLET NOZZLES WITH FLANGE SET

2" external thread, with orifice and ball 4 x 8 mm

Material: Stainless steel V4A/AISI 316L

Suitable for	Material	Length	Code
Foil basin (including flange set)	Gunmetal*	40 mm	03.22
Foil basin (including flange set)	Bronze**	40 mm	03.22-B
Foil basin (including flange set)	Gunmetal*	70 mm	03.24
Foil basin (including flange set)	Bronze**	70 mm	03.24-B

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



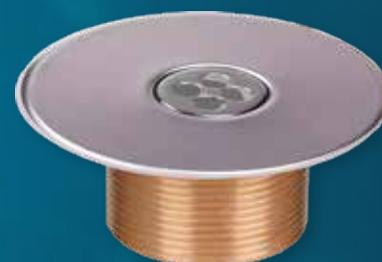
#03.22

INLET NOZZLES WITHOUT FLANGE SET

2" external thread, with orifice and ball 4 x 8 mm, material: stainless steel V4A/AISI 316L

Suitable for	Material	Length	Code
Tile and prefabricated basins (without counter set)	Gunmetal*	40 mm	03.20
Tile and prefabricated basins (without counter set)	Bronze**	40 mm	03.20-B
Tile and prefabricated basins (without counter set)	Gunmetal*	70 mm	03.21
Tile and prefabricated basins (without counter set)	Bronze**	70 mm	03.21-B

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



#03.20

COUNTER SET FOR FINISHED BASIN

2" internal thread, including seal

Article	Material	Code
Counter set for prefabricated basins	Gunmetal*	03.25

* **not suitable** for salt electrolysis max. 750 mg/l chloride content for V4A stainless steel



#03.25



FLOOR DRAIN 90° OUTLET

1 ½" and 2" internal thread, with anti-vortex cover Ø 168 mm,
Material: Stainless steel V4A/AISI 316L.

Suitable for	Material	Code
2" foil basin (including flange set)***	Gunmetal*	03.19-F
1 ½" foil basin (including flange set)	Gunmetal*	03.11-F
2" foil basin (including flange set)***	Bronze**	03.19-FB
1 ½" foil basin (including flange set)	Bronze**	03.11-FB

* **not suitable** for salt electrolysis **max. salt concentration: 6 % ***not compliant with DIN EN max. 750 mg/l chloride content for V4A stainless steel



FLOOR DRAIN VERTICAL OUTLET

1 ½" internal thread, with anti-vortex cover Ø 168 mm
Material: Stainless steel V4A/AISI 316L, Ø 168 mm

Suitable for	Material	Code
Prefabricated basin (including counter flange)	Gunmetal*	03.18-FE
Foil basin (including flange set)	Gunmetal*	03.18-F
Prefabricated basin (including counter flange)	Bronze**	03.18-FEB
Foil basin (including flange set)	Bronze**	03.18-FB

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



WALL DUCTS

2 x 1 ½" and 2 x 2" internal thread, for tile and liner basins

Material	Length	Code
2 x 1 ½" Gunmetal*	240 mm	03.00
2 x 2" Gunmetal*	240 mm	03.32
2 x 2" Gunmetal*	300 mm	03.33
2 x 1 ½" Bronze**	240 mm	03.00-B
2 x 2" Bronze**	240 mm	03.32-B
2 x 2" Bronze**	300 mm	03.33-B

* **not suitable** for salt electrolysis **max. salt concentration: 6 %



INLET NOZZLE

MULTIFLOW ADJUSTABLE

Adjustable inlet nozzle for prefabricated pools, for screwing in with 2" external thread and 50 mm glue socket inside, size and flow rate are adjustable with ball cutter adjustable, ball diameter 14-20-25 mm, flow rate 2.2 m³/h - 4.5 m³/h - 7.0 m³/h, **including** seal and lock nut

Note: to comply with the DIN EN 16582-1/4.5.2.2 standard, the ball hole must be enlarged to 25 mm, material: ABS plastic, color: white, also available individually

Material: ABS plastic, color: white, also available individually

Suitable for	Connections	PU	Code
Prefabricated basin	d 50 mm/2" AG	48	0295F



INLET NOZZLE

MULTIFLOW

Inlet nozzle for concrete and liner pools, for screwing in with 2" external thread and 50 mm glue joint inside, ball diameter 3x 7.95 mm, flow rate ~2.2 m³/h, **including** flange, seal and stainless steel screws as well as seal with lock nut with lock nut, complies with standard DIN EN 16582-1/4.5.2.2
Material: ABS plastic, color: white, also available individually



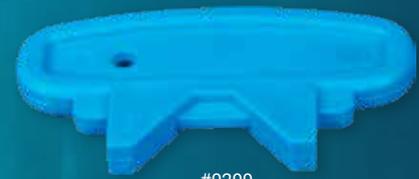
#0331

Suitable for	Connections	PU	Code
Concrete/foil basin	d 7,95 mm	48	0331

KEY FOR INLET NOZZLE

MULTIFLOW

Material: ABS plastic, only suitable for type Multiflow, & #0331, #0295-F



#0299

Article	Code
Key blue	0299

2" FLOOR INLET NOZZLE

Material: ABS plastic, Ø 109 mm, 360° regulation of fresh water flow, max. recommended flow rate is 12.0 m³/h, chemical-resistant, supplied with gaskets & screws
gaskets & screws, for foil/finished basin with flange, connections inside
Adhesive sleeve with diameter d 50 mm and outside 2" AG, also available individually. Color: white



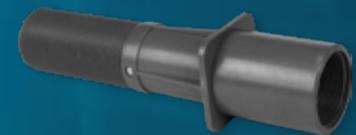
#2825F

Suitable for	Connections	PU	Code
Concrete/foil basin	d 50 mm/2" AG	48	2825F

Depending on the wall thickness, longer screws must be used for prefabricated basins.

2" WALL BUSHING

Material: PVC, for concrete pools, 300 mm long, back 2" AG, also available individually. Color: grey



#0324

Front	PU	Code
2" IG	48	0324

2" FLOOR DRAIN

Material: ABS plastic, Ø 170 mm, with 2" female thread connection on the side, cover can be unscrewed, max. flow rate 15 m³/h, min. 2 floor drains per pool are recommended, supplied with seals & screws, for liner/prefabricated pools with flange, also available individually. Color: white



#1467F

Suitable for	Connections	PU	Code
Concrete/foil basin	2" IG	8	1467F

Depending on the wall thickness, longer screws must be used for prefabricated basins.

10



POOL LIGHTING



Lighting is another key element that significantly shapes the atmosphere of your pool and enhances the visual experience. With the right lighting, you can immerse your pool in a fascinating play of colors during the evening hours, creating a particularly dynamic and inviting atmosphere.

The new Vision Pro LED lights not only offer an even more intense light output, but are also extremely energy-efficient. This turns your pool into a real highlight that attracts everyone's attention. The new LED lights are compatible with conventional controls as well as various panels and wall bushings, so you can easily benefit from the advantages of this modern technology. And of course, you will also find the right transformers in this section to ensure that your pool shines in all its glory.

OVERVIEW



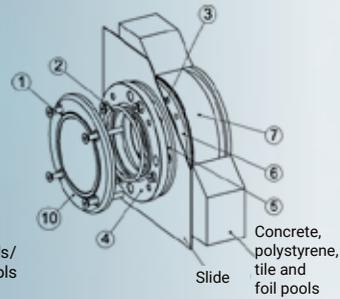
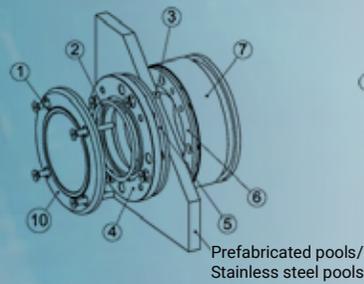
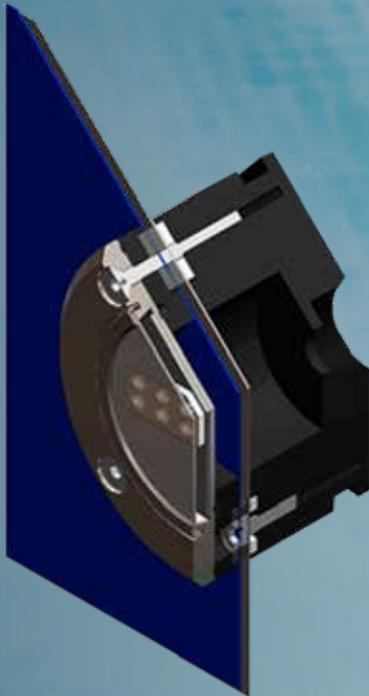
LED LIGHTS & ACCESSORIES

- P. 246 Meteor LED Spotlight 
- P. 249 VISION^{PRO} & ADAGIO^{PRO} LED Lights 
- P. 250 Spectra LED Lights 
- P. 252 Cover blending

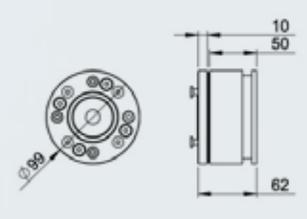
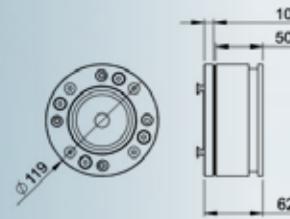
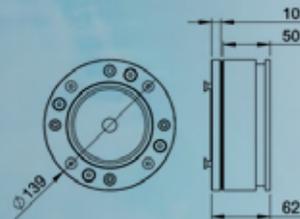
ACCESSORIES

- P. 254 Controls and transformers
- P. 256 Wall ducts
- P. 257 Underwater spotlight
- P. 258 General accessories

METEOR BUILT-IN HOUSING



- 1) 4 x stainless steel screws for fixing the LED
- 2) O-ring
- 3) 4 x stainless steel screws for fixing the flange
- 4) Flange
- 5) + 6) Gasket
- 7) Installation housing
- 10) LED



METEOR INSTALLATION HOUSING

for prefabricated, stainless steel, concrete, polystyrene, tile and foil pools, **Including** cable gland PVDF M12 x 15 and 1" female thread as connection for a cable conduit, see page 258, **Including** 10 mm thick plastic flange, 2 seals and 4 stainless steel screws M6 x 40 mm and M6 x 50 mm each, Material of housing and flange made of UHWM-PE plastic, color: black

Suitable for	Diameter	Code
Transition socket nipple PVC-U 32 - 25 x 1" external thread		02079
Meteor 99	99 x 50 mm	6441
Meteor 119	119 x 50 mm	6442
Meteor 139	139 x 50 mm	6443



OPTIONAL ACCESSORIES



STAINLESS STEEL FLANGE

made of V4A stainless steel AISI316L for Meteor built-in housing

Suitable for	Diameter	Code
Meteor 99	99 x 10 mm	6446
Meteor 119	119 x 10 mm	6447
Meteor 139	139 x 10 mm	6448



PAR56 ADAPTER

(for retrofitting - not required for new builds)
For installing the LED Meteor 119 or Meteor 139 in existing PAR56 installation housings, material: UHWM-PE

Suitable for	Diameter	Code
Meteor 119	176 x 60,5 mm	6449
Meteor 139	176 x 56,5 mm	6450





METEOR LED TRANSFORMER & CONTROLS



RGBW REMOTE CONTROL

WITH DMX512 RECEIVER 24 V DC

Practical and ergonomic remote control for the Meteor LED spotlights. Selection options: On/Off, mode (12 different), touch color wheel for direct color selection, dimming/brightness, direct selection of 3 different color gradients and 1x white as well as 4 different zones.

Range approx. 20 m

Protection class IP20, color: white, signal: 2.4 GHz

Batteries: 2x AAA and 1x CR2032

Dimensions/weight of the remote control: 162 x 42 x 15 mm, 85 g

Dimensions/weight of the receiver: 55 x 55 x 21 mm, 70 g

CE-certified



Article	Code
RGBW Remote Control	6458



TRANSFORMER

24 V/DC, 187 W, 7,8 A

Material: aluminum, L x W x H: 228 x 68 x 39 mm, protection class IP 65. The transformer should have twice the power of the connected LEDs (max. 93 W), e.g. for 10 x Meteor 99 or 5 x Meteor 119 or 2 x Meteor 139. If more LEDs are installed, 2 or more transformers must be used.



Article	Code
Transformer	6451



DMX INTERFACE

FOR RGB/RGBW AND WHITE LEDS

for converting the LED protocol to DMX512 standard, L x W x H: 67 x 80 x 21 mm. This is only required when using a DMX512 controller. Suitable for up to 6 LEDs.



Article	Code
DMX interface	6454



DIMMING MODULE

FOR WHITE & WARM WHITE LEDS

Material: ABS, L x W x H: 106 x 122 x 6 mm, protection class IP65. This is only required for the dimming function of the white and warm white LEDs, as the RGB/RGBW LEDs already contain a dimmer. Also required when using a DMX controller. Suitable for up to 3 LED w/ww.



Article	Code
Dimming Module	6453



SYNCHRONIZATION MODULE

FOR RGB/RGBW LEDS

Material: ABS, L x W x H: 181 x 122 x 56 mm, protection class IP65. This is only required if no controller is used, but only an ON/OFF switch to synchronize the colour sequences. Suitable for up to 3 multicolor LEDs.



Article	Code
Synchronization module	6452



VISION^{PRO} & ADAGIO^{PRO} LED LIGHTS



*See catalog page 252 for a selection of suitable panels

VISION^{PRO} und ADAGIO^{PRO} Underwater lights impress with their ultra-flat design, high luminosity and very uniform pool illumination.

Several lights can be operated in parallel. Wall bushings enable quick and easy installation. Cover panels in many materials and shapes enhance these underwater lights. With just one click on your remote control, you can give the pool a completely different look.

- VISION^{PRO} 3 diameters available: 50 mm, 100 mm und 170 mm as **RGBW**
- ADAGIO^{PRO} 3 diameters available: 50 mm, 100 mm und 170 mm as white or warm white
- Suitable for most 1 ½" wall ducts
- 170mm version: compatible with PAR56 recessed pot
- NoAir™ housing filled with resin
- detachable VisionPro cable: 2 x 1 mm² for 50 mm, 2 x 1.5 mm² for 100 mm, 2 x 2.5 mm² for 170 mm, each 2 m long included in the scope of delivery
- AdagioPro detachable cable: 4 m 2 x 1 mm² for 50 + 100 mm, 4 m 2 x 1.5 mm² for 170 mm included in the scope of delivery
- Very wide beam angle 120° for optimum pool illumination
- Easy to install
- Protection class IP68 (measured at a depth of 3 m)
- Protection class III
- Water temperature from -5°C to +40°C
- Suitable for all pool types
- Suitable for salt electrolysis (high-quality polymer)
- Lens: matt



170 mm



100 mm



50 mm



170 mm



100 mm



50 mm

VISION^{PRO} LED LIGHT *

Also available individually.

NEW
170 mm

Diameter	Color	Lumen Lm	Power	PU	Code
170 mm	RGBW	7.000	115 W/12 V	6	660-RGBW
100 mm	RGBW	3.500	65 W/12 V	6	659-RGBW
50 mm	RGBW	1.200	20 W/12 V	6	658-RGBW

ENERGY SAVING

ADAGIO^{PRO} LED LEUCHTE – PAR 56 *

Also available individually.

Diameter	Color	Lumen Lm	Power	PU	Code
170 mm	white 5.000 K	5.500	57 W/12 V	6	675-W
170 mm	warm white 3.300 K	4.950	55 W/12 V	6	675-WW

ENERGY SAVING

ADAGIO^{PRO} LED LEUCHTE *

Also available individually.

Diameter	Color	Lumen Lm	Power	PU	Code
100 mm	white 5.000 K	2.600	25 W/12 V	6	676-W
100 mm	warm white 3.300 K	2.400	23 W/12 V	6	676-WW
50 mm	white 5.000 K	750	8 W/12 V	6	677-W
50 mm	warm white 3.300 K	700	8 W/12 V	6	677-WW

ENERGY SAVING

*See catalog page 252 for a selection of suitable panels

**on all Vision^{PRO}, Adagio^{PRO} und Adagio^{PRO}-PAR56 lights



SPECTRA LED LIGHTS

SPECTRA underwater lights impress with their ultra-flat design, high luminosity and very uniform pool illumination. Several lights can be operated in parallel. Wall bushings enable quick and easy installation. Cover panels in many materials and shapes enhance these underwater lights. With just one click on your remote control, you can give the pool a completely different look - different white tones can be selected as well as 11 different RGB colors.

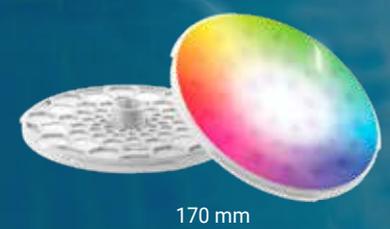
- 3 diameters available: 50 mm, 100 mm and 170 mm
- Suitable for most 1 1/2" wall bushings
- 170mm version: compatible with PAR56 recessed pot
- NoAir™ housing filled with resin: no water ingress
- Suitable for salt electrolysis thanks to the use of high-quality polymers
- Detachable, 2 m cable 2 x 1 mm² included in the scope of delivery
- programmable (RGB):
 - cold-white
 - neutral-white
 - warm-white
 - 11 RGB colors with soft transitions
- Very wide beam angle 120° for optimum pool illumination
- Easy to install
- Protection class IP68 (measured at a depth of 3 m), protection class III
- Water temperature from -5°C to +40°C
- Suitable for all pool types
- Suitable for salt electrolysis (high-quality polymer)
- Same color gradient after switching on again or after power interruptions
- Lens: clear



SPECTRA LED LEUCHTE – PAR 56* also available individually



Diameter	Color	Lumen Lm	Power	PU	Code
170 mm	cool white or warm white or blue 3,000 K-6500 K	2.400	32 W/12 V	6	655-W
170 mm	RGB	2.450	32 W/12 V	6	655-RGB



170 mm

SPECTRA LED LEUCHTE* also available individually



Diameter	Color	Lumen Lm	Power	PU	Code
50 mm	cool white or warm white or blue 3,000 K-6500 K	550	8 W/12 V	6	657-W
50 mm	RGB	450	8 W/12 V	6	657-RGB
100 mm	cool white or warm white or blue 3,000 K-6500 K	1.500	20 W/12 V	6	656-W
100 mm	RGB	1.500	20 W/12 V	6	656-RGB



100 mm



50 mm

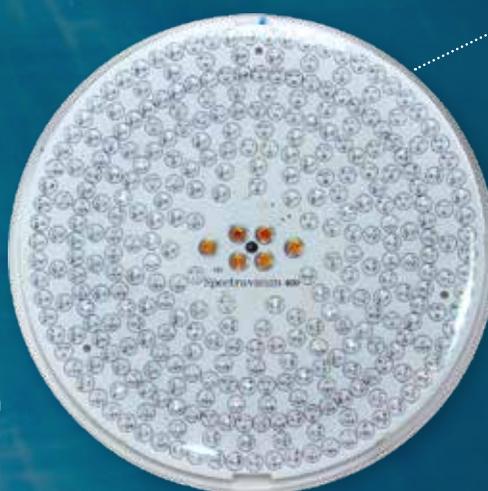
LED REPLACEMENT LIGHTS



LED REPLACEMENT LIGHT PAR 56 WHITE AND RGB

ENERGY SAVING

- Shatterproof polycarbonate
- Flat design
- White/RGB LED replacement lamp
- Intense light intensity
- Suitable for all UWS PAR 56
- Service life > 25,000 hours
- **Includes** 4 m connection cable 2 x 1 mm²
- Waterproof encapsulated, 120° beam angle
- Protection class IP68 measured at a depth of 1 m
- Max. water temperature +35°C
- Color temperature 9,000 K
- Also available individually



Side view of the lights

Color	Number of LEDs	Lumen	Power	PU	Code
white	324	1.850 Lm	19W/12 V	6	PLW56-400
white	531	2.100 Lm	28W/12 V	6	PLW56-700
RGB	324	925 Lm	21W/12 V	6	PLS56-400
RGB	531	1.450 Lm	25W/12 V	6	PLS56-700



LED REPLACEMENT LIGHT PAR56

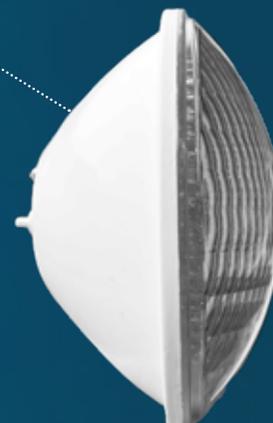
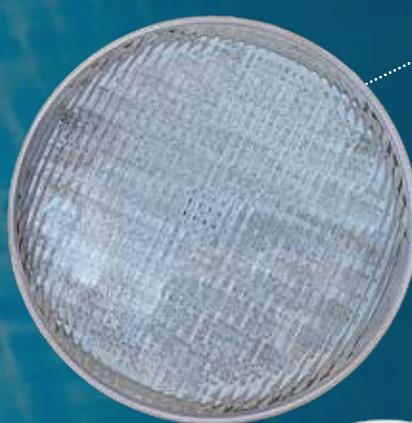
ENERGY SAVING

The rear curvature, as with the classic General Electric PAR56 lamp, enables quick and easy replacement with all standard 300 W PAR56 bulbs on the market.

Note: The #RC-100 or #RCO-100 control unit is required to control the RGB #470 (see catalog page 254).

The signals for the RGB bulb are transmitted via cable - this ensures problem-free and stable control and synchronization of the colour gradients. Other inexpensive RGB bulbs available on the market with an enclosed radio remote control, where the signal receiver is located in the bulb (no external control), often have problems with control and synchronization.

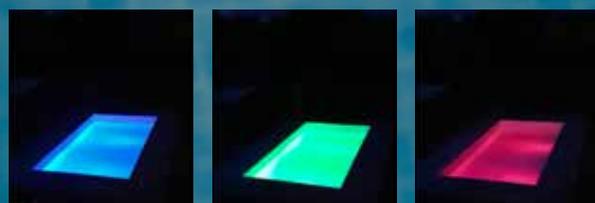
Compatible e.g. with spotlight #442-TO (see catalog page 263), also available individually.



Side view of the lights



Rear view



Color	Lumen approx.	Kelvin approx.	Power	PU	Code
RGB	650	-	15 W/12 V	12	470
blue	350	-	25 W/12 V	12	473
warm white	2100	3000	30W/12 V	12	474
white	2430	6500	30W/12 V	12	476



COVER BLENDING



COVER BLENDING

VISION^{PRO}, ADAGIO^{PRO} AND SPECTRA

NEW

- #658
- #699
- #659
- #677
- #698

Model FLAT, material: stainless steel V4A/AISI 316L

Ø Diameter	Ø Outer Diameter	Color	PU	Code
50 mm	128 mm	polished silver	6	689
100 mm	185 mm	polished silver	6	688
170 mm	280 mm	polished silver	6	687

Model FLAT, material: Polymer, also available individually.

Ø Diameter	Ø Outer Diameter	Color	PU	Code
50 mm	128 mm	white	6	686
100 mm	168,5 mm	white	6	696
100 mm	168,5 mm	light gray	6	699
170 mm	256,5 mm	white	6	695
170 mm	256,5 mm	light gray	6	658

Model RA, material: stainless steel V4A/AISI 316L, also available individually

Ø Diameter	Ø Outer Diameter	Color	PU	Code
100 mm	176 mm	polished silver	6	681
170 mm	250 mm	polished silver	6	680

Model RA, Material: Polymer, also available individually

Ø Diameter	Ø Outer Diameter	Color	PU	Code
100 mm	176 mm	white	6	679
100 mm	176 mm	dark gray	6	684
100 mm	176 mm	sand	6	685
100 mm	176 mm	light gray	6	677
100mm	176 mm	anthracite	6	659
170 mm	250 mm	white	6	678
170 mm	250 mm	dark gray	6	682
170 mm	250 mm	sand	6	683
170 mm	250 mm	light gray	6	698



#687, #688, #689



#695, #696, #686



NEW

- #658
- #699

#658, #699



NEW

- #659

#659



#680, #681



#678, #679



#682, #684



#683, #685



NEW

- #677
- #698

#677, #698



#667, #664



#665, #668



#666, #669



#697, #660

Model RD, material: Polymer, also available individually

NEW
#663

Ø Diameter	Ø Outer Diameter	Color	PU	Code
100 mm	176 mm	weiß	6	667
100 mm	176 mm	dunkelgrau	6	668
100 mm	176 mm	sand	6	669
100 mm	100 mm	hellgrau	6	697
170 mm	250 mm	schwarz	6	663
170 mm	250 mm	weiß	6	664
170 mm	250 mm	dunkelgrau	6	665
170 mm	250 mm	sand	6	666
170 mm	170 mm	hellgrau	6	660



NEW

#663

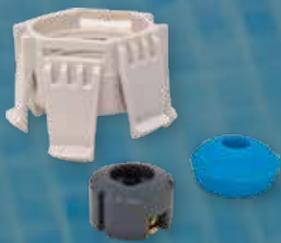
SPARE PARTS VISION^{PRO}, ADAGIO^{PRO} AND SPECTRA



ADAGIO^{PRO} AND SPECTRA CONNECTION SET

Consisting of: 1 ½" union, crimp seal and contact plug

Article	Code
Spectra connection set 50 mm-170 mm	675-E3
Adagio connection set 50 mm-100 mm	675-E1
Adagio connection set 170 mm	675-E2



#675-E1



#675-E2



#675-E3



FLAT GASKET

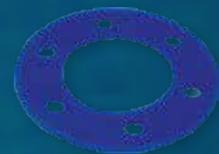
90 x 47 x 2 mm, for flange/wall feed-through

Article	PU	Code
Silicone flat gasket, blue	6	670-E1
Flange gasket foam rubber, black	10	674-E1

Article	PU	Code
Screw set (6 pcs.) for wall ducts/flange 5 x 20 mm made of stainless steel V4A	6	670-E5

for wall bushings/lock nut

Article	PU	Code
Silicone flat gasket, blue	6	674-E2



#670-E1



#674-E1



#670-E5



#674-E2

CONTROLS FOR VISION^{PRO} AND ADAGIO^{PRO} WITH DIMMING FUNCTION

Like #RC-100 and #RCO-100 (see catalog page 254), but as an intelligent control unit for VisionPro and AdagioPro RGB with dimming function (100 % - 75 % - 50 %), as well as additional connections possible via DMX 512, RS485, CAN BUS and SD card slot, **Including** DIP switch for selecting the control function and remote control black/red.

Max. 16 LEDs can be synchronized.

#RCO-150 **without** transformer

#RC-151 **including** transformer



#RCO-150



#RCTX



#RC-151

for	Dimensions	Trafo	Code
Vision ^{PRO} /Adagio ^{PRO}	150 x 157 x 51 mm	–	RCO-150
Vision ^{PRO} /Adagio ^{PRO}	298 x 420 x 145 mm	350 VA*	RC-151
Replacement radio remote control			RCTX

* **Including** 12 V output for LED headlights

TRANSFORMERS

EXCLUSIVE
MIDAS

Fully encapsulated transformer for swimming pool lighting in accordance with DIN EN 61558-2-6, Protection class IP65, protection class II - IP65, overheating protection: thermal fuse 130°C.

Power	For 12 Volt lamps	Code
50 VA	1 x 50 W	458
100 VA	1 x 100 W	459
100 VA	2 x 50 W	455
150 VA	1 x 150 W	461
150 VA	2 x 75 W	465
300 VA	1 x 300 W	456
350 VA	2 x 175 W	462
600 VA	2 x 300 W	457
900 VA	3 x 300 W	463



TOROIDAL TRANSFORMER

NEW

Toroidal transformer 12 / 230 VAC, 150VA, protection class IP64, for Duravision (VisionPro, AdagioPro, Spectra), wall mounting possible, is strongly recommended if #RC-151 or #RC-100 are not used

Power	Code
50 VA	TR-150





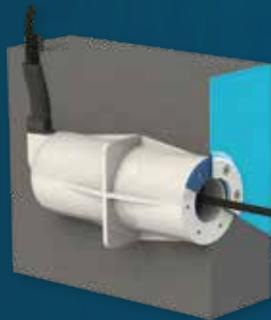
WALL DUCTS



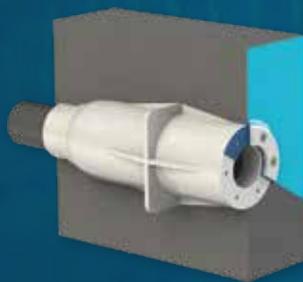
WALL DUCTS

FOR VISION^{PRO} ADAGIO^{PRO} AND SPECTRA

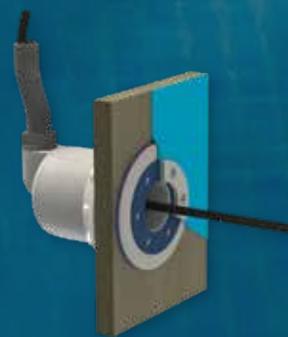
Depending on the length of the wall bushing, 50-100 cm of cable can be stowed inside, so available individually



#670, #671



#672, #673



#674



#675

	670	672	671	673	674	675
Length	129,5 mm	152 mm	247 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" Flex tube	50/63 mm	3/4" Flex tube	50/63 mm	3/4" Flex tube	3/4" Flex tube
Sealing	Cable gland	-	Cable gland	-	Cable gland	Cable gland
for concrete, tile and liner pools	✓	✓	✓	✓	-	✓
for prefabricated, wooden and steel wall pools					✓	-
for polystyrene pools	✓	✓		✓		✓
Including flange, seal, screws	✓	✓	✓	✓	✓	✓
Including lock nut	-	-	-	-	✓	-
Including Flex tube 3/4"	✓	-	✓	-	✓	✓
PU	6	6	6	6	6	6



TOOL SET

FOR VISION^{PRO}, ADAGIO^{PRO} AND SPECTRA

Simple fixing of the light module in the cover panel,
Simple locking of the cable gland,
Easy cable routing with cable puller



Article	Code
Tool Set	691*

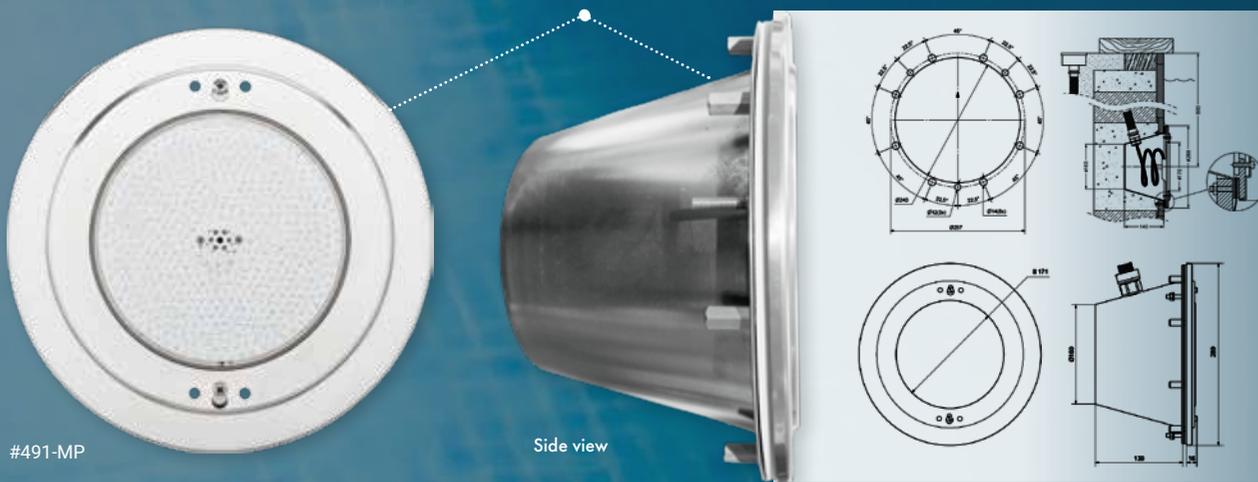
*free of charge on request when purchasing two or more lights

UNDERWATER SPOTLIGHT

UNDERWATER SPOTLIGHT MADE ENTIRELY OF STAINLESS STEEL

Made of V4A stainless steel /AISI 316L (without bulb)

The stainless steel cover is only 16 mm away from the inside of the pool and is therefore very flat and elegant. Especially suitable for prefabricated pools - the pool cut-out is covered and has no contact with the pool water. **Including** cover ring and installation pot, with seals and screws for foil/prefabricated pools. **Includes** fixing for LED. Supplied without connection cable and light source. Please order cable protection tube 3/4" separately #441-3TM (see catalog page 258). Matching LED: #PLW56 and #PLS56 on catalog page 257, also available individually



#491-MP

Side view

Suitable for	Code
Foil basin, <u>without</u> bulb	491-MP*
Screw set prefabricated basin for #491-MP	491-E1*



#491-E1

*Note: max. 250 mg/l chloride content - salt electrolysis is **not** recommended

UNDERWATER SPOTLIGHT

OFF ABS (without bulb)

EXCLUSIVE MIDAS

Classic version for foil/finished pools, complete with cover ring and installation pot made of ABS, installation pot optionally with side or base outlet, PAR56, with 2.5 m cable 2 x 4 mm², please order cable protection tube 3/4" separately #441-3TM (see catalog page 258), LED's #470 and #473, (see catalog page 251), or #PLW56 or #PLS56 (see catalog page 254), can be used, also available individually



#442-TO

Suitable for	PU	Code
Foil basin, <u>without</u> bulb	4	442-TO

Spare part	Code
Replacement ABS cover for headlight 442-TO	442-E2
Flange for headlight # 442-TO	442-E3
Flange gasket for headlight # 442-TO	442-E4
M6 screw set (16 pieces) for headlights # 442-TO	442-E6



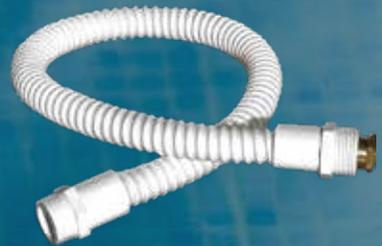
GENERAL ACCESSORIES



CABLE CONDUIT

EXCLUSIVE MIDAS

Suitable for all PAR 56 underwater spotlights, connection 3/4" AG, length 1 m, Color: white, also available individually



Article	PU	Code
Cable protection conduit, 1 m, Color: white	50	441-3TM



REDUCING NIPPLE

Required for the transition from the Meteor installation housing to the cable conduit #441-3TM 1" male thread x 3/4" female thread, PVC-U, 10 bar, Color: grey



Article	PU	Code
Reducing nipple	120	20148



H07RN-F CABLE FOR ALL UNDERWATER HEADLIGHTS

Cable for installation between transformer and cable junction box
Rubber connection cable, flexible, 450/750 V, temperature range: -7°C to +60 °C, oil-resistant, flame-retardant, UV-resistant, 1000 VAC protected, can be used for short-circuit and earth-safe 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 harmonization mark, 50 m rolls, Color: black



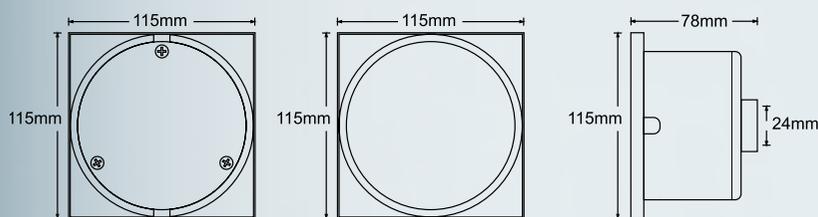
Article	Outer Ø	Code
Cable 2 x 2,5 mm ²	10,2 - 11,7 mm	639
Cable 2 x 4,0 mm ²	11,8 - 13,4 mm	638
Cable 3 x 6,0 mm ²	14,1 - 15,9 mm	637



DISTRIBUTOR CAN

EXCLUSIVE MIDAS

ABS, cable gland 2 x 3/4", also available individually



Version	PU	Code
ABS	40	417-TN



11



PVC-U MOLDED PARTS & INSTALLATION ACCESSORIES

Experience the outstanding quality of our certified, flexible adhesive hose again in the coming season! This versatile product is perfectly suited for underground installation and impresses with its chemical resistance, making it particularly popular with specialist dealers.

The new Badu Flow Sonic+ ultrasonic flow meter enables accurate flow measurement and optimum adjustment of frequency-controlled circulation pumps. Our sturdy pipes in PN16 or PN10 and high-quality PVC-U fittings are perfectly matched and offer a reliable solution for your installations. With our state-of-the-art cleaning and bonding materials, we guarantee durable, flexible and reliable piping.

Be sure to complement your ancillary equipment with our reliable MIDA.Fix - a polymer-based sealant and adhesive suitable for above and below water applications. Available in a range of colors including white, grey, black, transparent and Adriatic blue.

Take your installations to the next level!

OVERVIEW

FLOW METERS, VALVES & BALL VALVES

NEW

- P. 262 SPECK BADU Flow Sonic+ 
- P. 262 FlowVis flow meter 
- P. 263 Ball valves
- P. 264 Check valves

FITTINGS

- P. 265 Fittings PVC-U

ADHESIVE HOSES

- P. 275 Plasticized rigid PVC adhesive hose green
- P. 275 Chlorine-resistant adhesive hose white
- P. 275 PVC adhesive hose gray

PIPES PVC-U

- P. 276 Pipes PVC-U gray & transparent

GLUE & CLEANER

- P. 278 Glue
- P. 279 Cleaner

ACCESSORIES & TOOLS

- P. 280 Accessories
- P. 282 Tools



FLOW METERS, VALVES & BALL VALVES



SPECK BADU FLOW SONIC+ FLOWMETER VIA ULTRASOUND

Available from approx.
May 2024

NEW

For optimum adjustment of frequency-controlled circulation pumps with display, measuring range: 0-54 m³/h, max. salt content: 3% (30 g/l), material: PA/PP, connection 63 mm, PN10. Seals made of NBR and EPDM. Power supply 24 V DC, power consumption max. 10 W, output signal 4.20 mA / pulse (667/l)

ENERGY-SAVING

- SPECIAL ADVANTAGES**
- ✓ Precise flow measurement in m³/h
 - ✓ No pressure loss, as there is no resistance like some manual flow meters
 - ✓ No contamination of a float, as ultrasonic measurement

Technical data	
Power supply	DC 24V SELV
Power consumption	50 mA, with digital output 300mA
Power consumption	max. 10 W
Nominal pressure stage	PN 10
Measuring range	0 - 54 m ³ /h
Connection	63 mm / DN 50
Analog output signal	4-20 mA
Digital output signal	Puls (667/l)
Medium temperature	0-45 °C



Article	Code
BADU FlowSonic+	FLOSO



FLOWVIS FLOW METER & CHECK VALVE

ENERGY-SAVING

It is a modern, affordable and reliable flow meter designed specifically for swimming pools, swim spas or other water systems. Flawless in operation and sophisticated in concept, FlowVis is a revolution in reliable water flow measurement. FlowVis enables optimal adjustment of the frequency-controlled circulation pump to optimize filtration and backwashing and thus guarantee maximum energy savings. A non-return valve is also integrated.

Key advantages:

- Reliable and precise flow measurement in m³/h
- Patented design: flow meter + check valve
- Quick installation, without calibration
- Measurement accuracy is not affected, even with air in the system
- Verified average accuracy of 97.9%
- Does not block, does not pop up and does not give inaccurate measurements
- Horizontal, vertical or overhead installation possible, other fittings have no influence
- Minimum pressure loss of max. 0.14 bar
- Very robust, a long service life of more than 15 years is possible
- Certified to NSF50 Level 1



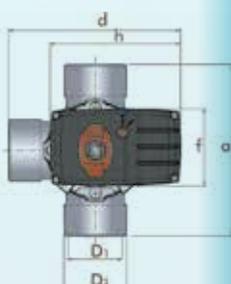
Article	Flow	Code
FlowVis DN 40 mm / d50	2,4 - 21,6 m ³ /h	FloVis50
FlowVis DN 50 mm / d63	2,4 - 24,0 m ³ /h	FloVis63



3-WAY ROTARY VALVE

WITH ADHESIVE SOCKETS - ELECTRICALLY OPERATED

Material: PVC-U, electric 3-way control valve made of PVC-U with rotation damper **Including** closed position indicator, 230 V. With the automatic valve can be selected between 90° and 180°. Pump **must** be stopped before turning
Color: black



d1-d2	a (mm)	d (mm)	f (mm)	h (mm)
50-63	159	183	94	159
63-75	210	209	94	159

d1-d2	Code
50-63	41863
63-75	41864



#41863
#41864



MIDA.FLO

2- & 3-WAY ROTARY DISC VALVE

Material: PVC-U, pressure-resistant cover and turntable set made of Ultranyl, 10 bar operating pressure, 15 bar test pressure, low pressure loss. Adhesive connections 50 mm inside, 63 mm outside. Color: black

ADVANTAGES OVER A BALL VALVE

- ✓ Three sizes in one valve
- ✓ Adjustable positions
- ✓ Access from above

MIDA.FLO 2-WAY ROTARY DISK VALVE



MIDA.FLO 3-WAY ROTARY DISK VALVE



Typ	Adjustable positions	PU	Code
2-way rotary disk valve	10	8	301
3-way rotary disk valve	19	8	306



MIDAS 3-WAY BALL VALVE



Material: PVC-U, EPDM seal, HDPE shell with 3 adhesive connections, 10 bar operating pressure
Color: grey

d	Length mm	PU	Code
50	240	4	3395-T



#3395-T



MIDAS 2-WAY BALL VALVE



Material: PVC-U, with EPDM seal, adhesive connection on both sides, 16 bar operating pressure, color: grey. Rubberized, unscrewable handle, lockable ball and double stem seal.



TEFLON DISH

d	Length (mm)	PU	Code
50	149	10	395-P
63	174	10	396-P

TEFLON DISH

10 BAR OPERATING PRESSURE

d	Length (mm)	PU	Code
40	142	6	394-IC
50	167	10	395-IC*
63	198	12	396-IC*
75	232	4	397-IC
90	269	3	398-IC

*Acceptance only in full packaging units.



PE TRAY

10 BAR OPERATING PRESSURE

d	Length mm	PU	Code
40	134	6	394-C
50	148	10	395-C*
63	168	10	396-C*
75	232	4	397-C
90	269	2	398-C
110	275	3	399-C

*Acceptance only in full packaging units.



ANGLE SEAT CHECK VALVES

Angle seat check valves with floating pistons. Only suitable for fixed horizontal or vertical installation. High flow rate with small opening. Especially recommended for salt electrolysis

d	PU	Code
50	1	395-S
63	1	396-S



MIDAS CHECK VALVES

Material: PVC-U, spring-loaded, adhesive connection on both sides. Color: grey.

d	Length mm	PU	Code
40	140	6	384-C
50	160	12	385-C*
63	190	10	386-C*
75	232	4	387-C
90	269	2	388-C
110	279	2	389-C

*Acceptance only in full packaging units.



FITTINGS



ANGLE 90°

ADHESIVE SLEEVE/ADHESIVE SLEEVE

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	55	814 ¹⁾
50	40	16	60	815 ¹⁾ *
63	50	16	36	816*
75	65	16	21	817 ¹⁾
90	80	16	12	819
110	100	16	14	811

*Acceptance only in full packaging units.



REDUCTION ANGLE 90°



ADHESIVE FABRIC/ADHESIVE BACKING - ADHESIVE FABRIC INSIDE/OUTSIDE

Material: PVC-U, color: grey

d x D - d1	DN	PN	PU	Code
50 x 50 - 40	40	16	60	02237
63 x 63 - 50	50	16	32	02238



ANGLE 45°

ADHESIVE SLEEVE/ADHESIVE SLEEVE

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	60	824 ¹⁾
50	40	16	80	825*
63	50	16	45	826*
75	65	16	25	827 ¹⁾
90	80	16	15	829 ¹⁾
110	100	16	16	821

*Acceptance only in full packaging units.

1) **kiwa**

Quality tested by:
Kiwa-Germany, Construction and Building Materials Testing Division



REDUCTION ANGLE 45°



ADHESIVE FABRIC/ADHESIVE BACKING - ADHESIVE FABRIC INSIDE/OUTSIDE

Material: PVC-U, color: grey

d x D - d1	DN	PN	PU	Code
50 x 50 - 40	40	16	90	02241
63 x 63 - 50	50	16	45	02242





TRANSITION ANGLE 90°

GLUE SOCKET/INNER THREAD

Material: PVC-U, color: grey



d x threaded	DN	PN	PU	Code
40 x 1 1/4"	32	10	50	01731
50 x 1 1/2"	40	10	28	01732
63 x 2"	50	10	16	01733
75 x 2 1/2"	65	10	9	22596
90 x 3"	80	10	6	22597
110 x 4"	100	10	3	22598



ANGLE 90° REINFORCED

GLUE SOCKET/INNER THREAD

Material: PVC-U and stainless steel V2A/AISI 304, color: grey

d x threaded	DN	PN	PU	Code
20 x 1/2"	15	16	130	01740



ANGLE 90°

INTERNAL THREAD/INTERNAL THREAD

Material: PVC-U, color: grey

d	DN	PN	PU	Code
1 1/2"	40	10	28	01738



ANGLE 90°

ADHESIVE SOCKET/EXTERNAL THREAD

Material: PVC-U, color: grey



d x threaded	DN	PN	PU	Code
50 x 1 1/2"	40	10	80	02239
63 x 2"	50	10	42	02240



BEND 90°

ADHESIVE SLEEVE/ADHESIVE SLEEVE

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	25	01970
50	40	16	30	01971*
63	50	16	15	01972*
75	65	16	8	01973

*Acceptance only in full packaging units.



T-JOINT 45°

3 ADHESIVE MATS

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	30	864
50	40	10	32	865*
63	50	10	18	866*
75	65	10	11	867
90	80	10	6	869
110	100	10	7	861

*Acceptance only in full packaging units.



CROSS PIECE

4 ADHESIVE MATS

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	30	844
50	40	16	32	845*
63	50	16	16	846*
75	65	16	12	847
90	80	16	12	849
110	100	16	6	841

*Acceptance only in full packaging units.



T-JOINT 90°

3 ADHESIVE MATS

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	40	834 ¹⁾
50	40	16	48	835 ¹⁾ *
63	50	16	24	836*
75	65	16	15	837 ¹⁾
90	80	16	8	839
110	100	16	10	831

*Acceptance only in full packaging units.





TRANSITION TEE 90°

REDUCES 2 ADHESIVE SOCKETS/INNER THREAD

Material: PVC-U, color: grey

d x threaded	DN	PN	PU	Code
50 x 1 1/4"	40 - 32	10	24	01855
50 x 1"	40 - 25	10	24	01856
50 x 3/4"	40 - 20	10	24	01857
50 x 1/2"	40 - 15	10	24	01858*
63 x 1 1/2"	50 - 40	10	13	01859
63 x 1 1/2"	50 - 32	10	14	01860
63 x 1"	50 - 25	10	15	01861
63 x 3/4"	50 - 20	10	15	01862
63 x 1/2"	50 - 15	10	15	01863

*Acceptance only in full packaging units.



TRANSITION TEE 90°

2 ADHESIVE SOCKETS/INSIDE THREAD

Material: PVC-U, color: grey

d x threaded	DN	PN	PU	Code
40 x 1 1/4"	32	10	19	01799
50 x 1 1/2"	40	10	21	01800*
63 x 2"	50	10	12	01801

*Acceptance only in full packaging units.



T-PIECE REDUCED 90°

3 ADHESIVE MATS

Material: PVC-U, color: grey

d x threaded	DN	PN	PU	Code
50 x 40	40 - 32	16	48	8504
50 x 32	40 - 25	16	48	8503
50 x 25	40 - 20	16	54	01822
50 x 20	40 - 15	16	56	01823
63 x 50	50 - 40	16	27	8635
63 x 40	50 - 32	16	28	8634
63 x 32	50 - 25	16	30	01826
63 x 25	50 - 20	16	30	01827
63 x 20	50 - 15	16	30	01828
75 x 63	65 - 50	16	16	8756
75 x 50	65 - 40	16	18	8755
75 x 40	65 - 32	16	18	01831
75 x 32	65 - 25	16	18	01832
90 x 75	80 - 65	16	9	01833
90 x 63	80 - 50	16	9	01834
90 x 50	80 - 40	16	9	01835
90 x 40	80 - 32	16	9	01836
110 x 90	100 - 80	16	11	01837
110 x 75	100 - 65	16	12	01838
110 x 63	100 - 50	16	12	01839
110 x 50	100 - 40	16	12	01840



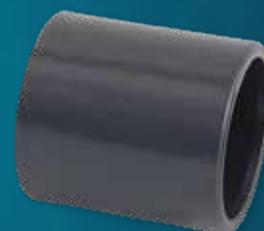
MUFFE

ADHESIVE SLEEVE/ADHESIVE SLEEVE

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	80	854 ¹⁾
50	40	16	56	855 ^{1)*}
63	50	16	34	856 ^{1)*}
75	65	16	14	857 ¹⁾
90	80	16	18	859
110	100	16	12	851

*Acceptance only in full packaging units.



REINFORCED TRANSITION SLEEVE

GLUE SOCKET/INNER THREAD

Material: PVC-U and stainless steel V2A/AISI 304, color: grey

d x threaded	DN	PN	PU	Code
50 x 1 1/2"	40	16	56	01912*
63 x 2"	50	16	28	01913*

*Acceptance only in full packaging units.

1) **kiwa**

Quality tested by:
Kiwa-Germany, Construction and Building Materials Testing Division



END CAP

ADHESIVE MUFFE

Material: PVC-U, color: grey

d	DN	PN	PU	Code
40	32	16	70	01946 ¹⁾
50	40	16	48	01947 ^{1)*}
63	50	16	24	01948 ^{1)*}
75	65	16	32	01949 ¹⁾
90	80	16	16	01950 ¹⁾
110	100	16	9	01951

*Acceptance only in full packaging units.

1) **kiwa**

Quality tested by:
Kiwa-Germany, Construction and Building Materials Testing Division



TRANSITION SLEEVE NIPPLE

GLUE SOCKET/INNER THREAD

Material: PVC-U, octagonal. Color: grey

d x threaded	DN	PN	PU	Code
50 - 40 x 1 1/4"	32	10	40	02258
50 - 40 x 1 1/2"	40	10	40	02257*
50 - 40 x 2"	40	10	45	02256
63 - 50 x 1 1/2"	40	10	36	02261
63 - 50 x 2"	50	10	36	02260
63 - 50 x 2 1/2"	50	10	24	02259

*Acceptance only in full packaging units.





TRANSITION SLEEVE NIPPLE

ADHESIVE SOCKET/EXTERNAL THREAD

Material: PVC-U, octagonal. Color: grey

d x threaded	DN	PN	PU	Code
50 - 40 x 1"	25	10	70	02087
50 - 40 x 1 ¼"	32	10	68	02086
50 - 40 x 1 ½"	40	10	68	02085*
63 - 50 x 1 ¼"	32	10	60	02090
63 - 50 x 1 ½"	40	10	60	02089*
63 - 50 x 2"	50	10	46	02088*
75 - 63 x 1 ½"	40	10	30	02093
75 - 63 x 2"	50	10	30	02092
75 - 63 x 2 ½"	65	10	24	02091
90 - 75 x 2"	50	10	24	02096
90 - 75 x 2 ½"	65	10	15	02095
90 - 75 x 3"	80	10	12	02094

*Acceptance only in full packaging units.

1) **kiwa**

Quality tested by:
Kiwa-Germany, Construction and Building Materials Testing Division



TRANSITION MUFFE

ADHESIVE SLEEVE/OUTLET

Material: PVC-U, Color: grey

d x threaded	DN	PN	PU	Code
40 x 1 ¼"	32	10	80	02105
50 x 1 ½"	40	10	72	02106*
63 x 2"	50	10	50	02107*
75 x 2 ½"	65	10	24	02108
90 x 3"	80	10	28	02109

*Acceptance only in full packaging units.



TRANSITION MUFFE

ADHESIVE SLEEVE/INSIDE

Material: PVC-U, octagonal. Color: grey

d x threaded	DN	PN	PU	Code
40 x 1 ¼"	32	10	60	01892
50 x 1 ½"	40	10	56	01893*
63 x 2"	50	10	28	01894*
75 x 2 ½"	65	10	14	01895
90 x 3"	80	10	24	01896

*Acceptance only in full packaging units.



STOPFEN

ISSUE

Material: PVC-U, Octagonal. Color: grey

d	DN	PN	PU	Code
1 ¼"	32	10	80	02126
1 ½"	40	10	60	02127*
2"	50	10	70	02128
2 ½"	65	10	45	02129





PRESSURE HOSE NOZZLE

ADHESIVE COVERING

Material: PVC-U, Color: grey

d x threaded	PN	PU	Code
16 x 16	10	200	02200
20 x 18	10	200	02201
20 x 20	10	200	02202
25 x 25	10	120	02203
32 x 30	10	80	02204
40 x 40	10	40	02205
50 x 50	10	30	02206*
50 x 38	10	40	02207*
63 x 60	10	18	02208

*Acceptance only in full packaging units.



PRESSURE HOSE NOZZLE

OUTSIDE THREAD

Material: PVC-U, Octagonal. Color: grey

d x threaded	PN	PU	Code
1 ½" x 38	10	36	02224*
1 ½" x 40	10	36	09032
1 ½" x 50	10	30	02223
2" x 60	10	15	02225

*Acceptance only in full packaging units.

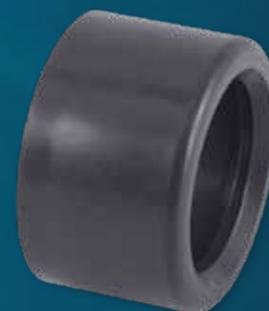


REDUCTIONS SHORT

GLUE SOCKET/GLUE SPIGOT

Material: PVC-U, Color: grey

d x threaded	DN	PN	PU	Code
40 x 32	32	16	120	01918 ¹⁾
40 x 25	20	16	120	01919
40 x 20	15	16	120	01920
50 x 40	32	16	60	01921 ¹⁾ *
50 x 32	25	16	60	01922*
50 x 25	20	16	60	01923
50 x 20	15	16	60	01924
63 x 50	40	16	48	01925 ¹⁾ *
63 x 40	32	16	40	01926*
63 x 32	25	16	40	01927
75 x 63	50	16	28	01928 ¹⁾
75 x 50	40	16	28	18685
75 x 40	32	16	28	18686
90 x 75	65	16	36	01929 ¹⁾
90 x 63	50	16	36	18687
90 x 50	40	16	36	18688
110 x 90	80	16	16	01930
110 x 75	65	16	16	18689
110 x 63	50	16	16	18690



1)



Quality tested by:

Kiwa-Germany, Construction and Building Materials Testing Division

*Acceptance only in full packaging units.



REDUCTIONS LONG
GLUE SOCKET/GLUE SPIGOT

Material: PVC-U, Color: grey

D - E x d	DN	PN	PU	Code
50-40 x 20	15	16	50	01982
50-40 x 25	20	16	40	01981
50-40 x 32	25	16	60	01980
50-40 x 40	32	16	30	01979
63-50 x 20	15	16	30	01987
63-50 x 25	20	16	30	01986
63-50 x 32	25	16	30	01985
63-50 x 40	32	16	46	01984
63-50 x 50	40	16	20	01983*
75-63 x 32	25	16	40	01991
75-63 x 40	32	16	40	01990
75-63 x 50	40	16	40	01989
75-63 x 63	50	16	26	01988
90-75 x 40	32	16	24	01995
90-75 x 50	40	16	48	01994
90-75 x 63	50	16	34	01993
90-75 x 75	65	16	12	01992
110-90 x 50	40	16	27	01999
110-90 x 63	50	16	27	01998
110-90 x 75	65	16	18	01997
110-90 x 90	80	16	16	01996

*Acceptance only in full packaging units.



DOUBLE NIP
OUTSIDE/OUTSIDE

Material: PVC-U, Octagon. Color: grey

d	DN	PN	PU	Code
1 1/2"	40	10	36	02116



3-PIECE SCREW CONNECTION
2 ADHESIVE MATS

Material: PVC-U, Color: grey

d	DN	PN	PU	Code
40	32	10	40	874
50	40	10	30	875*
63	50	10	12	876*
75	65	10	16	877
90	80	10	12	879
110	100	10	5	871

*Acceptance only in full packaging units.



TRANSITION FITTING ADHESIVE SLEEVE/OUTLET

Material: PVC-U, Color: grey

d x threaded	DN	PN	PU	Code
40 x 1 1/2"	32	10	36	02356
50 x 1 1/2"	40	10	30	02357*
63 x 2"	50	10	12	02358*
75 x 2 1/2"	65	10	16	02359

*Acceptance only in full packaging units.



SCREWING ADHESIVE SOCKET/OUTLET WITH ADDITIONAL EPDM O-RING (FOR PUMPS)

Material: PVC-U, Color: grey

d x threaded	DN	PN	PU	Code
50 x 1 1/2"	40	16	30	07716
50 x 2"	40	16	12	26638
63 x 2"	50	16	12	07717



TRANSITION FITTING ADHESIVE SLEEVE/INSIDE

Material: PVC-U, Color: grey

d x threaded	DN	PN	PU	Code
40 x 1 1/4"	32	10	40	02339
50 x 1 1/2"	40	10	30	02340*
63 x 2"	50	10	12	02341*
75 x 2 1/2"	65	10	16	02342

*Acceptance only in full packaging units.



REPLACEMENT O-RING FOR BALL VALVE + SCREW CONNECTION

d	PU	Code
D50mm x 1 1/2"	10	395-CE
D63mm x 2"	10	396-CE





ADHESIVE HOSES

PLASTIFIED HARD PVC ADHESIVE HOSE FLEXIBLE

fitt b-active



**evo
TECH**

**SAFE
RECOVERABILITY**
The marking with a transparent protective layer is permanently indelible.



- THE ADVANTAGES AT A GLANCE**
- Resistant to chlorine and chemicals
 - Extremely resistant to crushing/extremely bendable
 - perfect protection against cracking and embrittlement
 - Delivery includes stopper
 - can be stored outdoors, securely packaged individually in UV film- temperature-resistant from -10°C to +60°C

Also available individually.

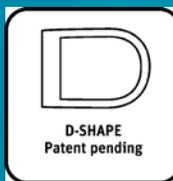


* **INSURANCE GUARANTEE** for all damage caused by the rigid PVC hose to third parties, **including** removal of the defective hose and installation of a new plasticized rigid PVC hose.



SECURE STABILITY

The new EVO TECH technology additionally reinforces the hard spiral protective film (Spiral Protection Barrier technology) and makes the hose six times more resistant than other hoses.



SECURE FLEXIBILITY

The spiral with the D-shape area offers high resistance to crushing (up to 34 kN/m²), which, in conjunction with the use of high-quality materials, enables increased flexibility and a smaller bending radius (up to 125 mm).



SECURE PROTECTION

The CDS film (Chlorine Defence System) offers increased protection, even against chlorinated water and an acidic environment, and guarantees durability.

color: green-white



Performance tests (mechanical and chemical) carried out internally and in collaboration with the University of Padua - DTG laboratory. Certified by TÜV (test protocol no. MEC16173.00) in compliance with the European Directive Re. (EU)10/2011 for simulants A-B-C. Note: Tolerance according to the UNI EN ISO 1307: 2008 standard. Thermoplastic products are subject to deformation due to external temperature and retraction, the length tolerance is ± 5%.

Ø (outside x inside)	Operating pressure	Burst pressure	Bending radius	Length	Pallet quantity	Code
50 x 42 mm	6 bar	18 bar	125 mm	25 m	12	8351
50 x 42 mm	6 bar	18 bar	125 mm	50 m	8	8352
63 x 55 mm	4 bar	12 bar	165 mm	25 m	6	8353
63 x 55 mm	4 bar	12 bar	165 mm	50 m	4	8354



CHLORINE-RESISTANT ADHESIVE HOSE

FLEXIBLE

A rigid spiral clad with a crack protection barrier co-extruded in the hose with patented Spiral Protection Barrier®, which guarantees excellent resistance and strength to stresses in the substrate.

Chlorine-resistant, flexible, smooth surface, mold protection, resistant to microorganisms, calibrated diameter

Temperature resistance: -5°C to +60°C

Color: white/blue

Complies with the UNI EN ISO 3994 standard.

TÜV approval no. Z1 16 10 55285 006

is subject to constant control.

European patent number 2209850

The tolerances comply with the standard

UNI EN ISO 1307:2008.

The length tolerance is ± 5 %, also available individually



Ø (outside x inside)	Operating pressure	Burst pressure	Bending radius	Length	Pallet quantity	Code
50 x 42 mm	5 bar	15 bar	165 mm	25 m	12	8301
50 x 42 mm	5 bar	15 bar	165 mm	50 m	8	8302
63 x 55 mm	4 bar	12 bar	220 mm	25 m	6	8303
63 x 55 mm	4 bar	12 bar	220 mm	50 m	4	8304
75 x 65 mm	4 bar	12 bar	220 mm	25 m	3	8305



PVC ADHESIVE HOSE

FLEXIBEL

Hose for supply systems for whirlpools and swimming pools. Externally calibrated, for a perfect connection with standard connections Spiral PVC hose, smooth inside and out, material: PVC

Temperature resistance: -5°C to +50°C,

color: grey, also available individually



Ø (outside x inside)	Operating pressure	Bursting pressure	Bending radius	Length	Pallet quantity	Code
40 x 32 mm	7 bar	21 bar	100 mm	25 m	16	8224M
50 x 42 mm	5 bar	15 bar	165 mm	12 m	16	8230M
50 x 42 mm	5 bar	15 bar	165 mm	25 m	12	8225M
50 x 42 mm	5 bar	15 bar	165 mm	50 m	8	8229M
63 x 55 mm	4 bar	12 bar	220 mm	25 m	6	8226M
75 x 65 mm	2,5 bar	7,5 bar	400 mm	25 m	3	8227M
90 x 80 mm	3 bar	9 bar	310 mm	25 m	4	8231M



PIPES PVC-U

PIPE PN 16

EXCLUSIVE MIDAS

- Material: PVC-U
- For gluing
- Pipe length 2.4 m: smooth ends on both sides (price per rod)



Color: grey

	d	Wall thickness mm	Pipe length m	pcs. per pallet	Code
Pipe length 2,4 m	50	3,7	2,4	215	8295.2,4m
	63	4,7	2,4	109	8296.2,4m
	75	5,6	2,4	100	8297.2,4m
	90	6,7	2,4	74	8299.2,4m

Weitere Durchmesser auf Anfrage lieferbar.
Auch einzeln erhältlich

ROHR PN 10

EXCLUSIVE MIDAS

- Material: PVC-U
- For gluing
- Tube length 2.4 m: smooth ends on both sides (price per rod)



Color: grey

	d	Wall thickness mm	Pipe length m	pcs. per pallet	Code
Pipe length 2,4 m	50	2,4	2,4	215	8195.2,4m
	63	3,0	2,4	109	8196.2,4m
	75	3,6	2,4	100	8197.2,4m
	90	4,3	2,4	74	8199.2,4m

Other diameters available on request.
Also available individually

TRANSPARENT TUBE PN 16

EXCLUSIVE MIDAS

- Material: PVC-U
- For gluing
- Tube length 2.5 m length (Ø 50 mm): smooth ends on both sides (price per rod)
or tube length 2.0 m length (Ø 63 mm): smooth ends on both sides (price per rod)



Color: transparent

d	Wall thickness mm	Pipe length m	Code
50	3,5	2,5	8495.2,5
63	4,0	2,0	8396.2

Also available individually.

TAPPING CLAMP



Reinforced edge (stainless steel),
with inner end Material: polypropylene with EPDM seal

d	PU	Code
50 x 3/4"	60	0165
50 x 1/2"	60	0166
63 x 1/2"	40	0167
63 x 3/4"	40	0168
75 x 1/2"	25	0169
75 x 3/4"	25	0170



PIPE CLAMP WITH FOLDING BRACKET



Min. quantity 10 pieces

Material: Polypropylene

d	PU	Code
50 x 1 1/2"	250	8251
63 x 2"	150	8252
75 x 2 1/2"	80	8253



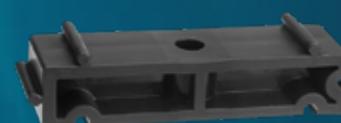
SPACER



Min. quantity 10 pieces

For pipe clamp with hinged bracket for ideal wall mounting,
especially for ball valves Material: polypropylene; height: 20 mm

d	PU	Code
50 x 1 1/2"	250	8255
63 x 2"	150	8256
75 x 2 1/2"	80	8257



PIPE CLAMP WITH BOW



Material: Polypropylene

d	PU	Code
50	100	8215
63	50	8216
75	40	8217





GLUE & CLEANER



MIDA.FIX 3000

UNIVERSAL SEALANT AND ADHESIVE

Application for stone (non-porous), concrete, natural stone, plaster, polycarbonate, PSU, PVC, various plastics, mirrors, glass, ceramic tiles, enamel, copper, lead, zinc, aluminum, stainless steel, wood

ADVANTAGES

- For underwater and above-water applications
- Very high mechanical strength
- For stress-equalizing bonding
- Free from solvents, isocyanate, phthalate and silicone
- Resistant to weathering and ageing - Resistant to salt and chlorinated water
- Anti-fungal and mold-inhibiting effect
- Suitable for pond liners- Compatible with natural stone
- Can be painted over (with emulsion paints)
- Sandable
- Odorless
- Shore hardness 60
- 300 % elongation at break (no expansion joints)
- Temperature resistance from -40°C to +100°C- Permanently elastic
- Fast curing properties
- Color-fast
- No shrinkage

CONTENT: 440 GRAMS (CARTRIDGE)

Color	Code
white	MF-3000W
gray	MF-3000G
black	MF-3000B
transparent	MF-3000t
adriatic blue	MF-3000A

Also available individually



#MF-3000W #MF-3000G #MF-3000B #MF-3000t #MF-3000A



CONTENT: 60 GRAM (TUBE)

Color	PU	Code
white	12	MF-60W

UNI-100 PVC ADHESIVE

Thixotropic adhesive for rigid PVC, fast-curing. Ideal for pipe connections in pressure and systems up to 315 mm diameter, max. 16 bar. Features: Special brush, fast setting, thixotropic, gap-filling. Temperature resistance: 60°C (briefly up to 95°C), viscosity: approx. 2500 mPa/s, solids content: approx. 23%, density: approx. 0.97 g/cm³. Color: grey (transparent).

Article	PU	Code
125 ml tube	30	8000
250 ml can with brush	24	8001
500 ml can with brush	12	8002
1,000 ml can with brush	8	8003



WDF-05 PVC ADHESIVE

Blue, fast-curing thixotropic PVC adhesive for flexible pipes up to 160 mm in diameter. Suitable for pressure and waste water systems up to 16 bar. Ideal for swimming pools and whirlpools. Features: Special brush, quick release, very fast curing, gap-filling. Temperature resistance: 60°C (briefly 95°C), viscosity: approx. 1500 mPa/s, solids content: approx. 17%, density: approx. 0.99 g/cm³. Color: Blue (transparent).

Article	PU	Code
125 ml can with brush	10	8103
250 ml can with brush	12	8100
500 ml can with brush	12	8101
1,000 ml can with brush	8	8102

DRYING TIMES

Ø	16 – 50 mm			63 – 110 mm			125 – 160 mm		
	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 Std.	4 Std.	1 Std.	2 Std.	8 Std.	4 Std.	16 Std.	32 Std.
> 15°C	15 min.	30 min.	2 Std.	30 min.	1 Std.	4 Std.	2 Std.	8 Std.	16 Std.



PVC ADHESIVE BLUE

Adhesive for joining piping elements made of soft (elastic) and rigid PVC (PVC-U). Suitable for water inlets and outlets in pools and for pressure pipes with a diameter ≤ 100 mm. Does not run off even on vertical surfaces.

Article	PU	Code
125 ml can with brush	12	8110
250 ml can with brush	12	8111
500 ml can with brush	12	8112
1,000 ml can with brush	6	8113

DRYING TIMES

Ø	20 – 63 mm			64 – 100 mm		
	0-10 bar	10 - 25 bar	25 - 40 bar	0-10 bar	10 - 25 bar	25 - 40 bar
	15 min.	1 Std.	24 Std.	30 min.	1 Std.	24 Std.



PVC-UNIVERSAL-CLEANER

For cleaning and degreasing pipes, sleeves and fittings made of rigid PVC, PVC, PVC-C and ABS to be bonded. Also suitable for removing uncured adhesive residue and for cleaning brushes and tools. Not suitable for thinning PVC, PVC-C and ABS adhesives. Properties: universal, very strong cleaning effect, viscosity: approx. mPa/s. Color: Transparent

Article	PU	Code
125 ml can with brush	20	8200
500 ml can with brush	12	8201
1,000 ml can with brush	6	8202





PVC-UNIVERSAL-CLEANER



The PVC universal cleaner improves the adhesive properties by dissolving the surface layer and is ideal for the adhesive "PVC adhesive blue" #8110 - #8113, as well as for all other adhesives for PVC-U and rigid, as well as flexible PVC.

Article	PU	Code
125 ml can with brush	12	8205
250 ml can with brush	12	8206
1,000 ml can with brush	6	8207



PVC-UNIVERSAL-CLEANER



Cleaning/solvent agent for preparing plastic surfaces before bonding. Compatible with all common plastics (PVC-U, soft PVC, PVC-C and ABS), cleans plastic connectors, improves the adhesion and bonding properties of PVC adhesives by dissolving the surface layer, removes dust, multidirectional use possible, is ideally suited for the adhesive "PVC adhesive blue" #8110 - #8113.

Article	PU	Code
125 ml bottle	4	8058



FEUCHTE REINIGUNGSTÜCHER



For cleaning and degreasing pipes, sockets and fittings made of PE, PP, PVDF and PB. Also suitable also suitable for cleaning welding equipment. High cleaning power, fast and residue-free evaporation, lint-free, 15 x 19.5 cm

Article	PU	Code
Moist cleaning cloths per 100 pcs.	6	8038



ACCESSORIES



FERMIT EMERGENCY KIT

For pipe damage, leaks and leaks around the pool

Scope of delivery:

- Self-welding sealing tape
- Repair compound for leaks
- Repair kit for pool liners
- Sealing tape for permanent sealing of holes and cracks
- Silicone fitting grease
- Plastic sealant
- PTFE Teflon tape

Article	Code
Fermit emergency kit	8114



LINT-FREE CLEANING CLOTHS



Absorbent, lint-free cloth for cleaning and degreasing pipes, sockets and fittings made of PE, PP, PVDF and PB. Also suitable for removing uncured adhesive residue. 23 x 41 cm, 100 pieces.

Article	PU	Code
Lint-free cleaning cloths	6	8037



SKIMMER REPAIR

For repairing cracks in skimmers. Resistant to pool water treated with chlorine, salt and ozone, seals leaks and reinforces ABS parts (skimmers, floor drains, multi-port valves). Consistency: gel, color: transparent beige, color after drying: white, for cracks of: 1-5 mm, time to complete drying: 24 hours. Also available individually.

Article	PU	Code
125 ml can	12	8057



LECK-FIX

Leck-Fix seals small leaks in swimming pools of various types (concrete, polyester, acrylic, waterproofing tarpaulin), as well as in pipes laid in the ground. The sealant can stop leaks in the order of 0.5 m³ to 0.8 m³ per day for pools between 50 m³ and 60 m³. pool size between 50 m³ and 60 m³ can be treated (corresponds to lowering the water level by approx. water level by approx. 2 centimeters for a pool measuring 10 m x 5 m). Unfortunately, more extensive measures are necessary for more extensive damage, also available separately. Application 1 liter up to max. 60 m³ pool. Also available individually.

Article	PU	Code
Leck-Fix 1l	6	8040



PLASTIC SEALING

Quick and clean. D-sealant from the tube. Suitable for plastic/plastic joints (PVC, PVC-C, PP, ABS, PE) and mixed metal/plastic joints.

Article	PU	Code
100g tube	6	8041



REPAIR COMPOUND FOR LEAKS

Two-component epoxy sealant in the form of modeling clay (10cm) for cementing, repairing and for the quick assembly of all rigid and semi-rigid plastics, even under water. Suitable for for plastics such as PVC, PVC-C, ABS (with the exception of PE, PP and PTFE) and most common materials (glass, wood, metal, copper, concrete). After curing, the product can be machined, drilled, sawn, filed and painted like metal.

Article	PU	Code
Repair compound	6	8042



SILICONE FITTING GREASE

Grease based on 100 % silicone oil and inert fillers. For greasing and lubricating stopcocks and valves on pools, irrigation systems and installations in a marine environment. Prevents limescale deposits from the water on the lubricated parts. Water-repellent: Suitable for devices that transport warm, aqueous solutions. Also available separately.

Article	PU	Code
30g Tube	40	8044
100g Tube	15	8056



PTFE SEALING TAPE

- Sealing tape made of 100 % pure, unsintered PTFE
- Prevents rusting (easy to remove even after years)
- Chemical resistance to the most aggressive media
- Does not become brittle, swell or stick, contains no oil or grease
- Removable, non-flammable, resistant to fungal attack, no expiry date
- 12 m long x 12 mm wide x 0.8 mm thick

Article	PU	Code
Roll 12 m	10	8043



KOLMAT® FIBER SEA

UNIQUE PRODUCT: TURN BACK > 180

For sealing conical and cylindrical metal and plastic connections (plastics/plastics and plastics/metal). Suitable for cold and hot water and (compressed) air. Suitable for e.g. PVC, CPVC and ABS, possibly in combination with copper, brass, (galvanized) steel and stainless steel. Also available separately.

Dimensions	PU	Code
14 mm x 15 m	30	8030



KOLMAT® PLASTIC

SEALANT FOR CONICAL AND CYLINDRICAL SYNTHETIC D-JOINTS

Kolmat® Plastic is a unique product for adjusting D-connections. Sockets, connections or taps can be installed in the correct position without the risk of leaks. Even when turned back by more than 180°, the connection remains 100% tight. Temperature resistance: from -50°C to +120°C, chemical base: silicone elastomer (alkoxy), 125 g, color: white

Article	PU	Code
Kolmat Plastic	6	8031



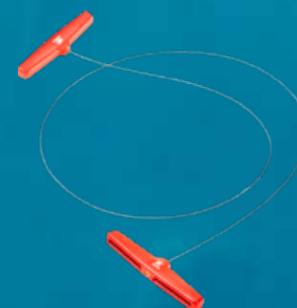
TOOLS

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 coarse cut for fast applications, with sturdy handles, length: 90 cm.

Article	Code
Wire saw	8036



JAPANESE SAW

Very flexible Japanese saw, adjustable handle, ideal for hard-to-reach places, cuts wood, plastics, PVC pipes.

Article	Code
Japanese saw	80360
Replacement saw blade for Japanese saw	80360-E1



DEBURRING TOOL FOR OUTDOORS

FOR BEVELING PLASTIC PIPES

For plastic pipes made of PVC, PVC-C, ABS, PP and PE. Suitable for diameters $16 \leq 63$ mm. Creates a beveled corner of 15° , prevents adhesive leakage

Article	Code
Deburring tool	8035
Replacement blades for deburring tool	8035-E1



DEBURRER FOR INSIDE

to remove the inner burr from the cut pipe, for plastic pipes made of PVC, PVC-C, ABS, PP and PE, prevents adhesive from leaking

Article	Code
Deburrer	80358
Replacement blade for deburrer	80358-E1



UNIVERSAL PLASTIC PIPE CUTTER

SUITABLE FOR ALL PVC-U PIPES

Article	Rohrgröße	Code
Universal plastic pipe cutter	6-50 mm	80355
Universal plastic pipe cutter	6-67 mm	80356
Spare cutting wheel (#80355 + #80356)		80355-E1



CORNER PIPE WRENCH S-JAW

Infinitely adjustable, fixed by captive adjusting nut, high strength, durable and wear-resistant thanks to induction-hardened teeth, suitable for metal connections

Article	Code
Corner pipe wrench S-jaw 1 1/2"	80350
Corner pipe wrench S-Maul 2"	80351



HOSE SCISSORS

Ideal for cutting plastic, PV swimming pool hoses up to 63 mm. Lightweight, several working areas possible. Spare blades available

Article	Code
Hose shears 63 mm	80359
Spare blade 63 mm	80359-E1



#80359

#80359



ALWAYS AN OPEN
EAR FOR YOU!

YOUR SATISFACTION IS OUR MISSION!

NOTES

- Prices valid from 01.03.2024 until further notice
- All prices are ex works Neuhof-Dorfborn, plus packaging, breakage, glass and transport insurance and shipping
- Spare part prices are excluded from discounts
- Minimum quantity surcharge: 30.00 euros for orders under 75.00 euros net value of goods
- Products may only be returned in their original packaging and subject to a 15% handling and restocking fee.
- With the publication of this price list, all previous price lists, special prices and special offers become invalid
- Price adjustments in the event of price increases by upstream suppliers are possible at any time
- Subject to errors, price and technical changes
- Color and dimensional deviations correspond to the usual tolerances
- Assortment, model and color changes reserved
- No liability is assumed for printing errors
- Place of jurisdiction and place of fulfillment is our registered office

REGISTERED OFFICE & ADDRESS

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GENERAL TERMS AND CONDITIONS OF SALE (GTCS) OF MIDAS POOL PRODUCTS GMBH

1. SCOPE OF APPLICATION, FORM

1.1 These General Terms and Conditions of Sale (GTCS) apply to all our business relationships with our customers ("Buyer"). The GTCS shall only apply if the Buyer is an entrepreneur (Section 14 of the German Civil Code (BGB)), a legal entity under public law or a special fund under public law. Upon conclusion of the contract, the Buyer confirms that it is an entrepreneur, a legal entity under public law or a special fund under public law.

1.2 The GTCS apply in particular to contracts for the sale and/or delivery of movable goods ("Goods"), irrespective of whether we manufacture the Goods ourselves or purchase them from suppliers (Sections 433, 650 BGB). Unless otherwise agreed, the GTCS in the version valid at the time of the Buyer's order or in any case in the version last communicated to him in text form shall also apply as a framework agreement for similar future contracts without us having to refer to them again in each individual case.

1.3 Our GTC apply exclusively. Deviating, conflicting or supplementary general terms and conditions, in particular the Buyer's terms and conditions of purchase, shall only become part of the contract if and to the extent that we have expressly agreed to their validity. This requirement of consent shall apply in any case, for example, even if the Buyer refers to his General Terms and Conditions in the context of the order and we do not expressly object to them.

1.4 Individual agreements (e.g. framework supply agreements) and information in our order confirmation take precedence over the GTCS.

1.5 All agreements made with us are recorded in text form and are only valid if they are made at least in text form. Collateral agreements and assurances as well as amendments or supplements to a contract concluded in text form must be made in text form. This also applies to the waiver of the text form requirement.

2. OFFER AND ORDER CONFIRMATION

2.1 Our offers are subject to change and non-binding. This shall also apply if we have provided the Buyer with catalogs, technical documentation (e.g. drawings, plans, calculations, references to DIN standards), other product descriptions or documents - also in electronic form - to which we reserve ownership rights and copyrights in accordance with the following Section 2.4.

2.2 The order of the goods by the Buyer shall be deemed a binding contractual offer. Unless otherwise stated in the order, we are entitled to accept this contractual offer within 5 days of its receipt by us.

2.3 Acceptance can be declared either by our order confirmation or by delivery of the goods to the buyer.

2.4 As the supplier, we reserve all property rights and copyrights to all offer documents, drawings, calculations, illustrations and similar information, whether tangible or intangible, including the electronic form of these documents. Third parties They may only be made accessible to third parties with our written consent and must be returned to us immediately upon request if the order is not concluded.

2.5 For deliveries abroad and for the first order of a new customer, the remuneration to be paid to us must always be paid in full in advance.

3. DELIVERY PERIOD AND DELAY IN DELIVERY

3.1 The delivery period shall be agreed individually by stating the delivery period in our order confirmation upon acceptance of the order. If this is not the case, the delivery period is approx. 4 weeks from conclusion of the contract.

3.2 If we are unable to meet binding delivery deadlines for reasons for which we are not responsible (non-availability of the service), we shall inform the buyer of this immediately and at the same time inform the buyer of the expected new delivery deadline. If the service is also not available within the new delivery period, we shall be entitled to withdraw from the contract in whole or in part; we shall immediately reimburse any consideration already paid by the Buyer. Non-availability of the service is for example in the event of late delivery to us by our suppliers, if we have concluded a congruent hedging transaction, in the event of other disruptions in the supply chain, for example due to force majeure or if we are not obliged to procure in individual cases.

3.3 The occurrence of our delay in delivery shall be determined in accordance with the statutory provisions. In any case, however, a reminder from the buyer is required. If we are in default of delivery, the buyer may demand lump-sum compensation for the damage caused by the delay. The lump-sum compensation shall amount to 0.5% of the net price (delivery value) for each completed calendar week of delay, up to a maximum of 5% of the delivery value of the goods delivered late. We reserve the right to prove that the buyer has not suffered any damage at all or only a significantly lower damage than the above lump sum.

3.4 The rights of the Buyer pursuant to § 8 of these GTCS and our statutory rights, in particular in the event of an exclusion of the obligation to perform (e.g. due to impossibility or unreasonableness of performance impossibility or unreasonableness of performance and/or subsequent performance) shall remain unaffected.

3.5 Partial deliveries are permissible if they are reasonable for the buyer, taking into account the interests of both parties.

4. DELIVERY, TRANSFER OF RISK, ACCEPTANCE, DEFAULT OF ACCEPTANCE, RETURN

4.1 Delivery shall be made in accordance with the trade term specified in the individual contract or our offer and/or our order confirmation, for the interpretation of which the INCOTERMS® 2020 shall apply. Unless expressly agreed otherwise, deliveries shall be made ex works of the supplier (36119 Neuhof, In der Eller 27), which is also the place of performance for the delivery and any subsequent performance. At the request and expense of the Buyer, the goods shall be shipped to another destination (sale to destination). Unless otherwise agreed, we shall be entitled to determine the type of shipment (in particular transport company, shipping route, packaging) ourselves.

4.2 The risk of accidental loss and accidental deterioration of the goods shall pass to the Buyer upon delivery in accordance with Section 4.1. In the case of sale by dispatch, however, the risk of accidental loss and accidental deterioration of the goods as well as the risk of delay shall in any case pass to the Buyer upon delivery of the goods to the forwarding agent, carrier or other person or institution designated to carry out the shipment, person or institution designated to carry out the shipment. If acceptance has been agreed, this shall be decisive for the transfer of risk. The statutory provisions of the law on contracts for work and services shall also apply accordingly to any agreed acceptance. If the Buyer is in default of acceptance, this shall be deemed equivalent to handover or acceptance.

4.3 If the buyer is in default of acceptance, fails to cooperate or if our delivery is delayed for other reasons for which the buyer is responsible, we shall be entitled to demand compensation for the resulting damage including additional expenses (e.g. storage costs). For this we shall charge a flat-rate compensation amounting to 0.5% of the purchase price per calendar week or part thereof up to a maximum total of 5% or 10% in the event of final non-collection, beginning with the first calendar week following the delivery deadline or - in the absence of a delivery deadline - with the first calendar week following the notification that the goods are ready for dispatch. Proof of higher damages and our statutory claims (in particular reimbursement of additional expenses, reasonable compensation, withdrawal) shall remain unaffected; however, the lump sum shall be offset against further monetary claims. The Buyer shall be entitled to prove that we have incurred no loss at all or only a significantly lower loss than the above lump sum.

4.4 If, in individual cases, we agree to take back the goods and cancel the contract as a gesture of goodwill, the buyer must return the goods in their original packaging. In this case, a flat-rate compensation of 15% of the purchase price, but at least of the purchase price, but at least EUR 50.00.

5. PRICES AND TERMS OF PAYMENT

5.1 Unless otherwise agreed in individual cases, our current prices at the time of conclusion of the contract shall apply in EURO, ex works, plus statutory VAT.

5.2 In the case of sale by delivery to a place other than the place of performance (Section 4 (1)), the Buyer shall bear the transportation costs ex works as well as the transport, breakage and glass insurance in the amount of 1.85% of the purchase price. If we do not invoice the transportation costs actually incurred in the individual case, a lump sum for transportation costs (excluding transport insurance) of EUR 130.00 shall be deemed agreed. Any customs duties, fees, taxes and other public charges shall be borne by the buyer.

5.3 The purchase price is due and payable within 14 days of invoicing and delivery or acceptance of the goods. However, we are entitled at any time, even in the context of an ongoing business relationship, to make a delivery in whole or in part only against advance payment. We shall declare a corresponding reservation at the latest with the order confirmation.

5.4 The buyer shall be in default upon expiry of the above payment deadline. During the period of default, interest shall be charged on the purchase price at the applicable statutory default interest rate. We reserve the right to claim further damages caused by default. Our claim to commercial maturity interest against merchants remains unaffected (§ 353 HGB) remains unaffected.

5.5 The Buyer shall only be entitled to rights of set-off or retention to the extent that his claim has been legally established or is undisputed. In the event of defects in the delivery, the Buyer's counter-rights shall remain unaffected, in particular pursuant to § 7 (5) sentence 2 of these AVB remain unaffected.

5.6 If it becomes apparent after conclusion of the contract (e.g. through an application for the opening of insolvency proceedings) that our claim to the purchase price is jeopardized by the Buyer's inability to pay, we shall be entitled to refuse performance in accordance with the statutory provisions performance and - if necessary after setting a deadline - to withdraw from the contract (§ 321 BGB). In the case of contracts for the manufacture of non-fungible goods (custom-made products), we may declare our withdrawal immediately; the statutory provisions on the dispensability of setting a deadline shall remain unaffected.

5.7 In the event of delayed payment, we may also suspend the fulfillment of our obligations from other contracts until receipt of payment. An express written notification to the customer is not required for this.

6. RETENTION OF TITLE

6.1 We reserve title to the goods sold until full payment of all our current and future claims arising from the purchase contract and an ongoing business relationship (secured claims).

6.2 The goods subject to retention of title may neither be pledged to third parties nor assigned as security before full payment of the secured claims. The buyer must inform us immediately in writing if an application is made to open insolvency proceedings or if third parties (e.g. seizures) have access to the goods belonging to us. seizures) are made on the goods belonging to us.

6.3 If the Buyer acts in breach of contract, in particular in the event of non-payment of the purchase price due, we shall be entitled to withdraw from the contract in accordance with the statutory provisions and/or to demand the return of the goods on the basis of the retention of title. The demand for return does not at the same time include a declaration of withdrawal; rather, we are entitled to demand only the return of the goods and reserve the right to withdraw from the contract. If the buyer does not pay the purchase price due, we may only assert these rights if we have previously set the buyer a reasonable deadline for payment without success or if setting such a deadline is dispensable according to the statutory provisions.

6.4 Until revoked in accordance with (c) below, the Buyer is authorized to resell and/or process the goods subject to retention of title in the ordinary course of business. In this case, the following provisions shall apply in addition.

(a) The retention of title shall extend to the full value of the products resulting from the processing, mixing or combining of our goods, whereby we shall be deemed to be the manufacturer. If, in the event of processing, mixing or combining with goods of third parties, their right of ownership remains, we shall acquire co-ownership in proportion to the invoice values of the processed, mixed or combined goods. Otherwise, the same shall apply to the resulting product as to the goods delivered under retention of title. delivered under reservation of title.

(b) The Buyer hereby assigns to us as security any claims against third parties arising from the resale of the goods or the product in total or in the amount of our possible co-ownership share in accordance with the above paragraph. We accept the assignment. The obligations of the buyer mentioned in paragraph 2 shall also apply in consideration of the assigned claims.

(c) The buyer remains authorized to collect the claim in addition to us. We undertake not to collect the claim as long as the buyer meets his payment obligations to us, there is no deficiency in his ability to pay and we do not assert the retention of title by exercising a right in accordance with paragraph 3. If this is the case, however, we can demand that the buyer informs us of the assigned claims and their debtors, provides all information necessary for collection, hands over the relevant documents and informs the debtors (third parties) of the assignment. In this case, we are also entitled to revoke the buyer's authorization to resell and process the goods subject to retention of title.

(d) If the realizable value of the securities exceeds our claims by more than 10%, we shall release securities of our choice at the buyer's request.

7. WARRANTY CLAIMS OF THE BUYER

7.1 The statutory provisions shall apply to the Buyer's rights in the event of material defects and defects of title, unless otherwise specified below.

7.2 The basis of our liability for defects is above all the agreement reached on the quality and intended use of the goods (including accessories and instructions). All product descriptions and manufacturer's specifications which are the subject of the individual contract or which were made public by us (in particular in catalogs or on our Internet homepage) at the time of conclusion of the contract shall be deemed to be an agreement on quality in this sense. Insofar as the quality has not been agreed, it shall be assessed in accordance with the statutory provisions whether a defect exists or not (Section 434 (3) BGB). Public statements made by the manufacturer or on its behalf, in particular in advertising or on the label of the goods, shall take precedence over statements made by other third parties.

7.3 In principle, we are not liable for defects that the buyer is aware of or is grossly negligent in not being aware of when the contract is concluded (§ 442 BGB). Furthermore, the Buyer's claims for defects presuppose that he has complied with his statutory inspection and notification obligations (§§ 377, 381 HGB). In the case of building materials and other goods intended for installation or other further processing, an inspection must always be carried out immediately prior to processing. If a defect is discovered during delivery, inspection or at any later time, we must be notified immediately in writing. In any case, obvious defects must be reported in writing within 7 working days of delivery and defects not recognizable during the inspection within the same period from discovery. If the Buyer fails to carry out the proper inspection and/or report defects, our liability for the defect not reported or not reported on time or not reported properly shall be excluded in accordance with the statutory provisions. In the case of goods intended for assembly, mounting or installation, this shall also apply if the defect only became apparent after the corresponding processing as a result of a breach of one of these obligations; in this case, in particular, the Buyer shall have no claims for reimbursement of corresponding costs ("removal and installation costs").

7.4 If the delivered item is defective, we may initially choose whether to provide subsequent performance by remedying the defect (subsequent improvement) or by delivering a defect-free item (replacement delivery). If the type of subsequent performance chosen by us is unreasonable for the buyer in the individual case, he may reject it. Our right to refuse subsequent performance under the statutory conditions remains unaffected.

7.5 We are entitled to make the subsequent performance owed dependent on the buyer paying the purchase price due. However, the buyer is entitled to retain a reasonable part of the purchase price in relation to the defect.

7.6 The Buyer shall give us the time and opportunity required for the subsequent performance owed, in particular to hand over the defective goods for inspection purposes. In the event of a replacement delivery, the Buyer shall return the defective item to us at our request in accordance with the statutory provisions; however, the Buyer shall not be entitled to return the item. Subsequent performance shall not include the removal, dismantling or disassembly of the defective item or the installation, attachment or assembly of a defect-free item if we were not originally obliged to perform these services;

the Buyer's claims for reimbursement of corresponding costs ("dismantling and assembly costs") shall remain unaffected and installation costs") remain unaffected.

7.7 We shall bear or reimburse the expenses necessary for the purpose of inspection and subsequent performance, in particular transport, travel, labor and material costs as well as any dismantling and installation costs, in accordance with the statutory provisions and these GTCS, if a defect actually exists. Otherwise, we may demand compensation from the Buyer for the costs incurred as a result of the unjustified request to remedy the defect if the Buyer knew or was negligently unaware that there was in fact no defect.

7.8 If a reasonable deadline to be set by the buyer for subsequent performance has expired without success or is dispensable in accordance with the statutory provisions, the buyer may withdraw from the purchase contract or reduce the purchase price in accordance with the statutory provisions. In the case of an insignificant defect, however, there is no right of withdrawal.

7.9 Claims of the buyer for damages or reimbursement of futile expenses shall only exist in accordance with § 8, even in the case of defects, and are otherwise excluded.

7.10 Claims of the buyer according to § 445a BGB exist for transport, travel, labor and material costs and, if applicable, dismantling and installation costs. The buyer cannot claim any other compensation or profit margin. Should personnel costs be incurred, our hourly rates for replacement work shall apply (Annex 1).

8. OTHER LIABILITY

8.1 Unless otherwise stated in these GTCS, including the following provisions, we shall be liable in the event of a breach of contractual and non-contractual obligations in accordance with the statutory provisions.

8.2 We shall be liable for damages - irrespective of the legal grounds - within the scope of fault-based liability in cases of intent and gross negligence. In the event of simple negligence, we shall only be liable, subject to statutory limitations of liability (e.g. care in our own affairs; insignificant breach of duty), only

a) for damages resulting from injury to life, limb or health.

b) for damages arising from the breach of an essential contractual obligation (an obligation whose fulfillment is essential for the proper execution of the contract and on whose compliance the contractual partner regularly relies and may rely); in this case, however, our liability is limited to compensation for the foreseeable, typically occurring damage.

8.3 The limitations of liability resulting from paragraph 2 shall also apply to third parties and to breaches of duty by persons (including in their favor) whose fault we are responsible for in accordance with statutory provisions. They shall not apply if a defect has been fraudulently concealed or a guarantee for the quality of the goods has been assumed⁶⁹ and for claims of the buyer under the Product Liability Act.

8.4 The Buyer may only withdraw from or terminate the contract due to a breach of duty that does not consist of a defect if we are responsible for the breach of duty. A free right of termination of the buyer (in particular in accordance with §§ 650, 648 BGB) is excluded. In all other respects, the statutory requirements and legal consequences shall apply.

9. STATUTE OF LIMITATIONS

9.1 Notwithstanding § 438 Para. 1 No. 3 BGB, the general limitation period for claims arising from material defects and defects of title is one year from delivery. If acceptance has been agreed, the limitation period shall commence upon acceptance.

9.2 If the goods are a building or an item that has been used for a building in accordance with its normal use and has caused its defectiveness (building material), the limitation period is 5 years from delivery in accordance with the statutory regulation (§ 438 Para. 1 No. 2 BGB). Other special statutory provisions on the limitation period remain unaffected (in particular § 438 Para. 1 No. 1, Para. 3, §§ 444, 445b BGB).

9.3 The above limitation periods of the law on sales shall also apply to contractual and non-contractual claims for damages of the Buyer based on a defect of the goods, unless the application of the regular statutory limitation period (§§ 195, 199 BGB) would lead to a shorter limitation period in individual cases. The Buyer's claims for damages pursuant to § 8 para. 2 sentence 1 and sentence 2(a) and pursuant to the Product Liability Act shall become time-barred exclusively in accordance with the statutory limitation periods.

10. CHOICE OF LAW AND PLACE OF JURISDICTION

10.1 These GTCS and the contractual relationship between us and the Buyer shall be governed by the law of the Federal Republic of Germany to the exclusion of international uniform law, in particular the UN Convention on Contracts for the International Sale of Goods.

10.2 If the buyer is a merchant within the meaning of the German Commercial Code, a legal entity under public law or a special fund under public law, the exclusive - also international - place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship shall be the registered office of our company. The same applies if the buyer is an entrepreneur within the meaning of § 14 BGB. However, in all cases we shall also be entitled to bring an action at the place of performance of the delivery obligation in accordance with these GTCS or an overriding individual agreement or at the Buyer's general place of jurisdiction. Overriding statutory provisions, in particular regarding exclusive jurisdiction, shall remain unaffected.



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We value and respect our customers, suppliers and other business partners. Based on mutual trust and long-term relationships, we aim to grow together.

We are open to **all** partners - **regardless** of nationality or company size - and evaluate solely on the basis of strengths.



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