Water Treatment for Private Swimming Pools

Catalogue

grünbeck

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Grünbeck water treatment – 75 years of experience

QUALITY MADE IN GERMANY

For 75 years now, Grünbeck Wasseraufbereitung has been one of the most renowned companies for water treatment in household, trade and industry in Europe. All around the globe, our customers trust in our expertise when it comes to ideal water qualities. The company's headquarters are located in the Bavarian city of Hoechstaedt/Donau, approximately 100 km west of Munich, where all of Grünbeck's products are manufactured – high-class German workmanship with high standards of quality. We have a tight net of sales and service locations in Europe and thus not only ensure the proximity to our customers, but also have quick response times.

Grünbeck offers the entire spectrum of water treatment for drinking water installations and industrial applications. Our product range covers filtration, softening and corrosion protection up to disinfection and pure water generation. Furthermore, Grünbeck also is in the position to offer an ideal solution for the treatment of heating water.

BECOME A WATER EXPERT!

Catalogue Water Treatment for Private Swimming Pools · Edition 1.0
Valid from January 1, 2024. The information in this catalogue supersedes all previous information. For our additional product range, please refer to our separate catalogues. All sales are always subject to the currently valid Standard Terms of Sale and Delivery of the country in which the respective order is placed and processed (as per order confirmation). For these Standard Terms of Sale and Delivery, go to www.gruenbeck.com. As product availability varies from country to country, please address your Grünbeck representative for respective details, if required. Descriptions and illustrations in this catalogue are approximate and non-binding. Photographs may show products with special features or accessories that are not included in the standard product version. Grünbeck reserves the right to modify the products and deviate from the descriptions to the extent to which such modifications are reasonable and do not change the value of the product. The regulations and directives indicated in this catalogue refer to either European or German standards. For an explanation of the pool type symbols 1 2 3 4 5, please refer to the legend at the bottom of the respective page. Subject to modifications and errors.

Our General Terms and Conditions:
www.gruenbeck.com/general-terms-and-conditions

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Ultrafiltration Filter System

TIP

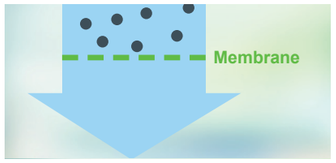
Your advantages at a glance:

- *Membrane cut-off limit of ≤ 0.02 µm*
- *99.99 % retention of viruses, bacteria and parasites (sand filter system approx. 30 %)*
- *Unique filtrate and disinfection flushing*
- *Pre-assembled technical equipment*
- *Operation possible via tablet/smartphone*
- *Internal data backup*
- *Adapted circulation capacity (FC-controlled)*

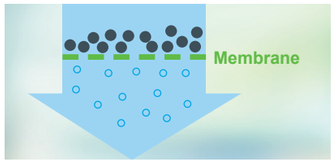
Innovative technology for private pools by means of ultrafiltration system spaliQ:UF150.
Effective filter technology for pure swimming pleasures.

Selection criteria for ultrafiltration filter system

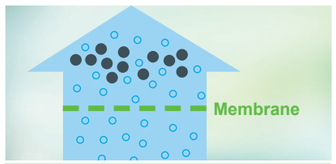
Functional description of the spaliQ:UF150's membrane technology



Contaminated water flows through a membrane under pressure. This membrane works like a strainer. Particles that are smaller than the pores flow through. Particles that are larger than the pores are retained.



The filtered particles are deposited on the surface of the membrane. This layer is getting thicker all the time. The thicker the layer, the more resistance it creates. The flow volume decreases and the pressure loss increases.



In the backwash process, filtered water (filtrate) flows through the membrane in the opposite direction. The deposited particles are removed and flushed to the drain.

● Raw water with dirt particles, viruses, bacteria and parasites
○ Filtrate

Filter system spaliQ:UF150 for private swimming pools and whirlpools

Ultrafiltration system in modular design

Ultrafiltration system spaliQ:UF150 for private swimming pools and whirlpools

Filter system spaliQ:UF150		Order no.	(RG-E)
Filter capacity [m³/h]	15		
Backwash capacity of ultrafiltration module [m³/h]	18		
Backwash water volume of filter system per backwash [l]	240		
Cut-off limit of backwash filter [µm]	≤ 200		
Cut-off limit of ultrafiltration module [µm]	≤ 0.02		
Raw water connection [DN]	65		
Filtrate connection/backwash water connection [DN]	50		
Drain connection required [DN]	≥ 100 (by client)		
Power supply [V, Hz]	230/400, 50		
Connected load [kW]	4.0		
Fuse protection [A]	max. 20 (by client)		
spaliQ:UF150		**247 100**	

Accessories for spaliQ:UF150	Order no.	(RG-E)
Automatic integrity test		
To regularly and automatically check the virus/bacteria/parasite barrier for soundness (installed on the system in the factory)	**247 175**	
Temperature reduction at night/ Whispering mode for pools with overflow channel		
To save energy by lowering the pool water level of pools with overflow channel when they are not in use. Circulation without overflow channel. Motor ball valves not included in the scope of supply.	**247 185**	
Mobile cleaning system CIP:UF60	**778 100**	

Note: *If the spaliQ:UF150 is installed above the water level, the conical PVC non-return valve S6, DN 50 (order no. 202 475) must be installed on the pressure side of the pump.*

Single-/Multi-layer Filter Systems

TIP

AFM has a number of advantages compared to quartz sand:

- *Better filtration and backwash performance*
- *Less channelling*
- *Longer replacement cycles*

The filter system is the core of every treatment system for swimming pools. Filterable substances are removed from the circulation circuit.

Selection criteria for single-/multi-layer filter systems

Filter capacity

The size of the filter system should be chosen in a way that the pool volume is circulated once within 4 hours in outdoor pools and once within 6 hours in indoor pools.

Filter operating times

- Outdoor pools, approx. 18 hours per day
- Indoor pools, approx. 12 hours per day

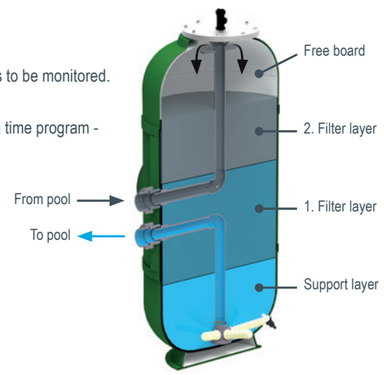
The filter operating time should be divided into 2 - 3 blocks before and during the bathing time.

Filter systems

- Manual filter systems (H and HK versions):
  Here, the filter backwash must be released manually and needs to be monitored.
- Automatic filter systems (A and AK versions):
  The filter operating times and the backwash are controlled via a time program - a maximum of convenience.

Filter material

- Quartz sand:
  Standard filter material
- Hydro-anthracite N:
  Higher dirt holding capacity
- AFM:
  Treated and activated glass (refer to tip)



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Filter system GENO-mat F 500 for swimming pools up to a volume of approx. 35 m³

High-performance filter system in compact design; pre-assembled on base plate

Filter system GENO-mat F 500	
Pump capacity [m³/h at mWC]	8.5/8
Max. filter capacity [m³/h]	6
Connection to pump	2" female thread
Connection to pool/drain [DN]	40
Power input [W]	480 (three-phase current)/580 (AC)
Drain connection required [DN]	≥ 100 (by client)

Components	F 500 H AC/three-phase current	F 500 HK AC	F 500 HK Three-phase current	F 500 A AC/three-phase current	F 500 AK AC/three-phase current
GRP filter tank	•	•	•	•	•
Circulation pump	•	•	•	•	•
Manual valve	•	•	•		
Automatic valve				•	•
Heat exchanger		•	•		•
Control unit GENO-BW-tronic			•	•	•
Control unit BWH-W*		•			

• *Included in the scope of supply.*

Manual filter systems	Power supply	Order no.	(RG-B)
GENO-mat F 500 H, AC	230 V, 50 Hz	**240 420**	
GENO-mat F 500 H, three-phase current	400 V, 50 Hz	**240 400**	

GENO-mat F 500 H

Semi-automatic filter systems with heat exchanger	Power supply	Order no.	(RG-B)
GENO-mat F 500 HK, AC*	230 V, 50 Hz	**240 430**	
GENO-mat F 500 HK, three-phase current	400 V, 50 Hz	**240 410**	

GENO-mat F 500 HK, AC

Fully automatic filter systems	Power supply	Order no.	(RG-B)
GENO-mat F 500 A, AC	230 V, 50 Hz	**240 470**	
GENO-mat F 500 A, three-phase current	400 V, 50 Hz	**240 450**	

GENO-mat F 500 A

Fully automatic filter systems with heat exchanger	Power supply	Order no.	(RG-B)
GENO-mat F 500 AK, AC	230 V, 50 Hz	**240 480**	
GENO-mat F 500 AK, three-phase current	400 V, 50 Hz	**240 460**	

GENO-mat F 500 AK

* *In case of pools with overflow channel, only possible in combination with level control GENO-Multi Niveau (please refer to page 27).*

Filter system GENO-mat F 500, AC Eco for swimming pools up to a volume of approx. 35 m³

High-performance filter system with speed-controlled circulation pump in compact design; pre-assembled on base plate

Filter system GENO-mat F 500, AC Eco	
Pump capacity [m³/h at mWC]	≤ 24/8
Max. filter capacity [m³/h]	6
Connection to pump	2" female thread
Connection to pool/drain [DN]	40
Power input [W]	80 - 1,400 (AC)
Drain connection required [DN]	≥ 100 (by client)

Components	F 500 A, AC Eco	F 500 AK, AC Eco
GRP filter tank	•	•
Circulation pump	•	•
Automatic valve	•	•
Heat exchanger		•
Control unit GENO-BW-tronic	•	•

• *Included in the scope of supply.*

Fully automatic filter system	Power supply	Order no.	(RG-B)
GENO-mat F 500 A, AC Eco	230 V, 50 Hz	**240 490**	

GENO-mat F 500 A, AC Eco

Fully automatic filter system with heat exchanger	Power supply	Order no.	(RG-B)
GENO-mat F 500 AK, AC Eco	230 V, 50 Hz	**240 495**	

GENO-mat F 500 AK, AC Eco

Filter system GENO-mat F 600 for swimming pools up to a volume of approx. 70 m³

High-performance filter system in compact design; pre-assembled on base plate

Filter system GENO-mat F 600	
Pump capacity [m³/h at mWC]	14/8
Max. filter capacity [m³/h]	12
Connection to pump	2" female thread
Connection to pool/drain [DN]	40
Power input [W]	900 (three-phase current)/970 (AC)
Drain connection required [DN]	≥ 100 (by client)

Components	F 600 H AC/three-phase current	F 600 HK AC	F 600 HK Three-phase current	F 600 A AC/three-phase current	F 600 AK AC/three-phase current
GRP filter tank	•	•	•	•	•
Circulation pump	•	•	•	•	•
Manual valve	•	•	•		
Automatic valve				•	•
Heat exchanger		•	•		•
Control unit GENO-BW-tronic			•	•	•
Control unit BWH-W*		•			

• *Included in the scope of supply.*

Manual filter systems	Power supply	Order no.	(RG-B)
GENO-mat F 600 H, AC	230 V, 50 Hz	**241 420**	
GENO-mat F 600 H, three-phase current	400 V, 50 Hz	**241 400**	

GENO-mat F 600 H

Semi-automatic filter systems with heat exchanger	Power supply	Order no.	(RG-B)
GENO-mat F 600 HK, AC*	230 V, 50 Hz	**241 430**	
GENO-mat F 600 HK, three-phase current	400 V, 50 Hz	**241 410**	

GENO-mat F 600 HK, AC

Fully automatic filter systems	Power supply	Order no.	(RG-B)
GENO-mat F 600 A, AC	230 V, 50 Hz	**241 470**	
GENO-mat F 600 A, three-phase current	400 V, 50 Hz	**241 450**	

GENO-mat F 600 A

Fully automatic filter systems with heat exchanger	Power supply	Order no.	(RG-B)
GENO-mat F 600 AK, AC	230 V, 50 Hz	**241 480**	
GENO-mat F 600 AK, three-phase current	400 V, 50 Hz	**241 460**	

* *In case of pools with overflow channel, only possible in combination with level control GENO-Multi Niveau (please refer to page 27).*

GENO-mat F 600 AK

Filter system GENO-mat F 600, AC Eco for swimming pools up to a volume of approx. 70 m³

High-performance filter system with speed-controlled circulation pump in compact design; pre-assembled on base plate

Filter system GENO-mat F 600, AC Eco	
Pump capacity [m³/h at mWC]	≤ 24/8
Max. filter capacity [m³/h]	12
Connection to pump	2" female thread
Connection to pool/drain [DN]	40
Power input [kW]	80 - 1,400 (AC)
Drain connection required [DN]	≥ 100 (by client)

Components	F 600 A, AC Eco	F 600 AK, AC Eco
GRP filter tank	•	•
Circulation pump	•	•
Automatic valve	•	•
Heat exchanger		•
Control unit GENO-BW-tronic	•	•

• *Included in the scope of supply.*

GENO-mat F 600 A, AC Eco

Fully automatic filter system	Power supply	Order no.	(RG-B)
GENO-mat F 600 A, AC Eco	230 V, 50 Hz	**241 490**	

GENO-mat F 600 AK, AC Eco

Fully automatic filter system with heat exchanger	Power supply	Order no.	(RG-B)
GENO-mat F 600 AK, AC Eco	230 V, 50 Hz	**241 495**	

Filter system GENO-mat F 610 for swimming pools up to a volume of approx. 90 m³

High-performance filter system with large, lateral inspection opening and acrylic cover to check the backwash

Filter system GENO-mat F 610	
Pump capacity [m³/h at mWC]	20/8
Max. filter capacity [m³/h]	15
Connection to pump	2" female thread
Connection to pool/drain [DN]	50
Power input [W]	1,320 (three-phase current)/1,370 (AC)
Drain connection required [DN]	≥ 100 (by client)

Components	F 610 H	F 610 A
GRP filter tank	•	•
Circulation pump	•	•
Manual valve	•	
Automatic valve		•
Control unit GENO-BW-tronic		•

• *Included in the scope of supply.*

GENO-mat F 610 H

Manual filter systems	Power supply	Order no.	(RG-B)
GENO-mat F 610 H, AC	230 V, 50 Hz	**242 420**	
GENO-mat F 610 H, three-phase current	400 V, 50 Hz	**242 400**	

GENO-mat F 610 A

Fully automatic filter systems	Power supply	Order no.	(RG-B)
GENO-mat F 610 A, AC	230 V, 50 Hz	**242 470**	
GENO-mat F 610 A, three-phase current	400 V, 50 Hz	**242 450**	

Filter system GENO-mat F 610, AC Eco for swimming pools up to a volume of approx. 90 m³

High-performance filter system with speed-controlled circulation pump in compact design; pre-assembled on base plate

Filter system GENO-mat F 610, AC Eco	
Pump capacity [m³/h at mWC]	≤ 34/8
Max. filter capacity [m³/h]	15
Connection to pump [DN]	65
Connection to pool/drain [DN]	50
Power input [W]	90 - 1,800 (AC)
Drain connection required [DN]	≥ 100 (by client)

Components	F 610 A, AC Eco
GRP filter tank	•
Circulation pump	•
Automatic valve	•
Control unit GENO-BW-tronic	•

• *Included in the scope of supply.*

GENO-mat F 610 A, AC Eco

Fully automatic filter system	Power supply	Order no.	(RG-B)
GENO-mat F 610 A, AC Eco	230 V, 50 Hz	**242 490**	

Filter system GENO-mat F 800, AC Eco for swimming pools up to a volume of approx. 130 m³

High-performance filter system with speed-controlled circulation pump and large, lateral inspection opening as well as acrylic cover to check the backwash

Filter system GENO-mat F 800, AC Eco	
Max. pump capacity [m³/h at mWC]	≤ 34/8
Max. filter capacity [m³/h]	21.5
Connection to pump [DN]	80
Connection to pool/drain [DN]	65/80
Power input [W]	90 - 1,800 (AC)
Drain connection required [DN]	≥ 100 (by client)

Components	F 800 H, AC Eco	F 800 A, AC Eco
GRP filter tank	•	•
Circulation pump	•	•
Manual valve	•	
Automatic valve		•
Control unit GENO-BW-tronic		•

• *Included in the scope of supply.*

Manual filter system	Power supply	Order no.	(RG-B)
GENO-mat F 800 H, AC Eco	230 V, 50 Hz	**242 455**	

GENO-mat F 800 H, AC Eco

Fully automatic filter system	Power supply	Order no.	(RG-B)
GENO-mat F 800 A, AC Eco	230 V, 50 Hz	**242 465**	

GENO-mat F 800 A, AC Eco

Filter material for filter systems

Filter material – Quantity delivered	Quartz sand Grain size 0.4 - 0.8 kg	Quartz sand Grain size 1.0 - 2.0 kg	Quartz sand Grain size 3.15 - 5.6 kg	Hydro-anthracite N Grain size 1.4 - 2.5 l	AFM Grain size 0.4 - 0.8 kg	AFM Grain size 0.7 - 2.0 kg	Order no.	(RG-B)
for BWK/F 500/510 Top consisting of quartz sand	50	25	–	–	–	–	**200 840**	
for BWK/F 500/510 Top consisting of AFM	–	–	–	–	42	21	**240 180**	
for BWK/F 600 consisting of quartz sand	75	75	50	–	–	–	**200 560**	
for BWK/F 600 consisting of quartz sand + hydro-anthracite N	–	75	50	50	–	–	**200 565**	
for BWK/F 600 consisting of AFM	–	–	–	–	105	42	**241 800**	
for BWK/F 610 consisting of quartz sand	200	75	50	–	–	–	**242 185**	
for BWK/F 610 consisting of quartz sand + hydro-anthracite N	125	50	–	100	–	–	**242 190**	
for BWK/F 610 consisting of AFM	–	–	–	–	147	63	**242 180**	
for BWK/F 800 consisting of quartz sand	350	100	75	–	–	–	**242 115**	
for BWK/F 800 consisting of quartz sand + hydro-anthracite N	175	100	75	100	–	–	**242 125**	
for BWK/F 800 consisting of AFM	–	–	–	–	294	147	**242 135**	

Note: *Filter material compatible with filter systems GENO-mat BWK/F and BWK/F, AC Eco.*
Irrespective of the quantity, the delivery of filter material is always FCA Hoechstaedt/Germany.

Circulation pumps for filter systems

Low-noise, self-priming block pump made of plastic, with integrated hair and fibre strainer

GENO-Top

Circulation pumps GENO-Top	Power supply [V, Hz]	Pump capacity [m³/h at 8 mWC]	Power input [kW]	Delivery head [max.]	Order no.	(RG-B)
GENO-Top 8, AC	230, 50	8.5	0.58	14	**855 20 323**	
GENO-Top 8, three-phase current	400, 50	8.5	0.48	14	**855 20 324**	
GENO-Top 14, AC	230, 50	14	0.97	16	**855 20 327**	
GENO-Top 14, three-phase current	400, 50	14	0.90	16	**855 20 328**	
GENO-Top 20, AC	230, 50	20	1.37	16	**855 20 329**	
GENO-Top 20, three-phase current	400, 50	20	1.32	16	**855 20 330**	

GENO-Prime-Eco-VS, AC

Low-noise, self-priming and speed-controllable block pump made of plastic, with integrated hair and fibre strainer.
Model GENO-Profi-Eco-VS, AC including an illuminated cover

Circulation pumps	Power supply [V, Hz]	Pump capacity [m³/h at 8 mWC]	Power input [kW]	Order no.	(RG-B)
GENO-Prime-Eco-VS, AC	230, 50	≤ 24	0.08 - 1.4	**855 20 362**	
GENO-Profi-Eco-VS, AC	230, 50	≤ 34	0.09 - 1.8	**855 20 365**	

GENO-Profi-Eco-VS, AC

Cartridge filter kompakt SP C-5, fittings

Cartridge filter in compact design consisting of:

- Filter made of ABS and PVC with replaceable filter cartridge
- Self-priming circulation pump with integrated hair and fibre strainer
- Pressure gauge 0 - 2.5 bar
- Mounting bracket

Cartridge filter kompakt SP C-5		Order no.	(RG-B)
Pump capacity [m³/h at mWC]	8/8		
Max. filter capacity [m³/h]	8		
Filter surface [m²]	5		
Nominal fineness [µm]	20		
Connection to pump	1.5" female thread		
Connection to pool/drain	1.5" female thread		
Power input [W]	870		
Dimensions (l x w x h) [mm]	550 x 400 x 850		
Clearance required for replacement [mm]	1,500		
Power supply [V, Hz]	230, 50		
Cartridge filter kompakt SP C-5		**212 410**	

Cartridge filter kompakt SP C-5

Filter element for cartridge filter

Made of high-grade polyester fleece

Filter element for cartridge filters types K1 and SP C-5	Nominal fineness	Order no.	(RG-B)
	20 µm	**212 416**	

Fittings	Connection [DN]	Order no.	(RG-B)
Conical non-return valve	40	**202 470**	
For installation into pressure pipe (riser pipe) downstream of the	50	**202 475**	
filter system, required especially for pools with overflow channel	65	**202 490**	
Manually-operated overflow channel bypass			
Consisting of shut-off valve AS with locking handle,			
including counter flanges and screws	50	**304 600**	
Automatic overflow channel bypass			
Consisting of PVC diaphragm valve, normally closed,			
3-way pilot valve, 20 m control line, pre-assembled			
Power supply 230 V/50 Hz			
compatible with GENO-BW-tronic	50	**200 680**	
Power supply 24 V/DC			
compatible with control unit spaliQ:UF150	50	**200 685**	
Shut-off valve R			
With locking handle, including counter flanges,	50	**304 510**	
flange sleeves and screws	65	**304 511**	
Shut-off valve F			
With fine-tuning, including counter flanges,	50	**304 520**	
flange sleeves and screws	65	**304 521**	
Ball valve S6	40	**852 70 836**	
Material: PVC/EPDM	50	**852 70 837**	
2-way ball valve S6			
With electrical actuator, power supply 230 V, AC	40	**852 78 620**	
Material: PVC/EPDM	50	**852 78 625**	

Automatic overflow channel bypass

Shut-off valve F

Control Units

The filter's control unit regulates the filter operating times and the pool temperature.

TIP

In case of filter series HK, A and AK, the control units are pre-assembled and wired, considerably facilitating the installation.

Guide for the selection of the proper control unit

The following series types are available:

Control unit BWH-W
This control unit is suitable for the daily switch-on and switch-off of the filter system via timer or manual switch. The desired pool water temperature can be set by means of a rotating switch to 0 - 40 °C. Please take into consideration that in case of pools with overflow channel, this control unit can only be used in combination with level control GENO-Multi-Niveau.

Control unit GENO-BW-tronic
In combination with Grünbeck's actuator, the GENO-BW-tronic allows for a fully automatic operation of the filter.
Apart from filter operating times and temperature control, the backwash of the pool water filter is released automatically as well. The GENO-BW-tronic is suitable for pools with skimmer system as well as for pools with overflow channel and can be used with three-phase and AC pumps.

Control units GENO-BW-tronic, BWH-W, additional control unit, timer

Control unit GENO-BW-tronic		Order no.	(RG-B)
For semi or fully automatic operation of the filter system via timer programming. Display and operation via keypad and 4-line, backlit LC display, 6 languages to choose from. The control unit features a two-point temperature controller, incl. voltage-free output and serial interface RS 485.			
Dimensions of plastic housing (w x h x d) [mm]	371 x 254 x 115		
Protection	IP 54		
Power supply [V, Hz]	230/400, 50	**240 620**	

Control unit GENO-BW-tronic

Control unit BWH-W		Order no.	(RG-B)
For semi-automatic operation of the filter system via timer, suitable for AC pumps. The control unit features a two-point temperature controller. In case of pools with overflow channel, only possible in combination with level control GENO-Multi Niveau.			
Dimensions of plastic housing (w x h x d) [mm]	242 x 185 x 115		
Protection	IP 44		
Power supply [V, Hz]	230, 50	**208 607**	

Control unit BWH-W

Additional control unit for BWH-W		Order no.	(RG-B)
To connect a three-phase pump (1.25 - 5 A)			
Dimensions of plastic housing (w x h x d) [mm]	160 x 240 x 160		
Protection	IP 65		
Power supply [V, Hz]	230/400, 50	**972 20 550**	

Timer 26		Order no.	(RG-B)
To switch AC pumps on and off, max. 16 A			
Power supply [V, Hz]	230, 50	**208000010000**	

Built-in Pool Parts

TIP

When planning outdoor pools, the main wind direction needs to be taken into consideration for the positioning of the built-in parts.

During planning already, it must be determined which built-in parts are required. The skimmer technology is a space and cost saving solution for private swimming pools as there is no need for an overflow channel and a raw water tank. The water level is below the edge of the pool and the water surface is siphoned off by the skimmer and cleaned.

Overview of pool systems and their characteristics

Design

Skimmer system

- Skimmers: 1 piece up to a max. water surface of up to 35 m² or a pool width of 4.5 m, depending on the shape of the pool and the filter capacity
- Floor outlets: 2 pieces, in case of one skimmer
- Inlet nozzles: Depending on the shape of the pool and the filter capacity. The flow rate is approx. 1 - 3 m³

Overflow channel system

- Channel outlets: One channel outlet every approx. 2.5 m. For an exact calculation, the pool size, number of bathers and the circulation capacity of the filter system are the decisive factors.
- Floor inlets: One floor inlet nozzle every 6 - 8 m². Please take the shape of the pool into consideration.

Grünbeck only uses high-quality materials. Built-in pool parts made of brass or stainless steel are more expensive but a lot sturdier. A fact which will pay off when replacing the prefabricated parts in the future.

Skimmers and accessories

ABS skimmer		Pool type	Order no.	(RG-B)
Dimensions (l x w x h) [mm]	395 x 320 x 371			
Connection [DN]	40			
Min./max. suction capacity [m³/h]	6/10	1 2 3 4	200 789	

Accessories for ABS skimmer	Pool type	Order no.	(RG-B)
Mechanical ABS water level controller			
Fresh water connection ½" male thread	1 2 3 4	200 780	
ABS extension			
Length 50 mm, material: ABS	1 2 3 4	200 785	
Closing plug E			
To completely drain the pool via the circulation pump	1 2 3 4	201 300	
Closing plug L			
To shut off the second skimmer when a pool cleaning device is used	1 2 3 4	201 301	
Connection piece for suction hose			
of the pool cleaning device	1 2 3 4	206 202	
ABS tile cover			
Cover width 39 mm, material: ABS	1 2 3 4	200 787	
ABS flange frame			
Consisting of receiving and clamp flange	2 3	200 786	

Skimmer basis 200		Pool type	Order no.	(RG-B)
Material	Stainless steel 1.4571			
Dimensions (l x w x h) [mm]	240 x 335 x 350			
Connection [DN]	40			
Min./max. suction capacity [m³/h]	6/10			
Skimmer basis 200		1 2 3 4	200 730	
Skimmer basis 200				
With pre-assembled PVC flange for sealing mass		5	200 757	

Accessories for skimmer basis 200	Pool type	Order no.	(RG-B)
Mechanical water level controller basis 200			
Fresh water connection ⅜" male thread	1 2 3 4 5	200 770	
Electric water level controller for skimmer			
Including solenoid valve ½", level control 230 V as well as safety shut-off	1 2 3 4 5	200 695	
Extension basis 200			
Length 300 mm, material: stainless steel 1.4571	1 2 3 4	201 200	
Closing plug E	1 2 3 4 5	201 300	
Closing plug L	1 2 3 4 5	201 301	
Connection piece for suction hose	1 2 3 4 5	206 202	
Tile cover basis 200			
Cover width 40 mm, material: stainless steel 1.4571	1 4 5	200 775	
Flange frame basis 200			
Cover width 25 mm, material: stainless steel 1.4571	2 3	201 302	
Tile adapter frame basis 50			
Material: stainless steel 1.4571, height compensation: 50 mm	1 2 3 4 5	200 765	
Tile adapter frame basis 100			
Material: stainless steel 1.4571, height compensation: 100 mm	1 2 3 4 5	200 773	

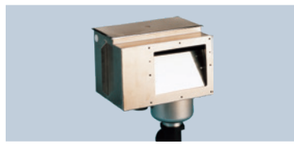
1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

ABS skimmer

Mechanical ABS water level controller

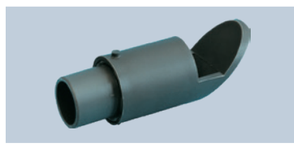
ABS extension

ABS flange frame

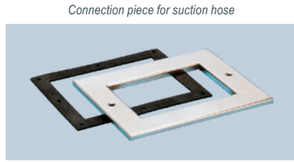


Skimmer basis 200

Mechanical water level controller basis 200

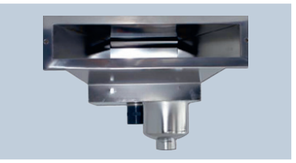


Connection piece for suction hose

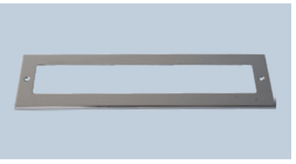


Tile cover basis 200

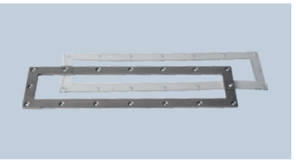
Skimmers and accessories, floor outlets and accessories



Skimmer de luxe 500



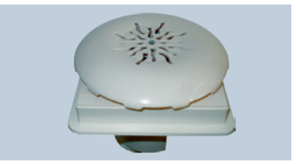
Tile cover de luxe 500



Flange frame de luxe 500

Skimmer de luxe 500		Pool type	Order no.	(RG-B)
Material	Stainless steel 1.4571			
Dimensions (l x w x h) [mm]	490 x 500 x 350			
Connection [DN]	40			
Min./max. suction capacity [m³/h]	10/15			
Skimmer de luxe 500		1 2 3 4	**200 720**	
Skimmer de luxe 500				
With pre-assembled PVC flange for sealing mass		5	**200 756**	

Accessories for skimmer de luxe 500	Pool type	Order no.	(RG-B)
Electric water level controller for skimmer			
Including solenoid valve ½", level control 230 V			
as well as safety shut-off	1 2 3 4 5	**200 695**	
Closing plug E			
To completely drain the pool via the circulation pump	1 2 3 4 5	**201 300**	
Closing plug L			
To shut off the second skimmer			
when using the pool cleaning device	1 2 3 4 5	**201 301**	
Connection piece for the suction hose			
of the pool cleaning device	1 2 3 4 5	**206 202**	
Tile cover de luxe 500			
Cover width 25 mm, material: stainless steel 1.4571	1 4 5	**200 772**	
Flange frame de luxe 500			
Cover width 25 mm, material: stainless steel 1.4571	2 3	**200 774**	
Cover for flange frame de luxe 500			
Cover width 35 mm, material: stainless steel 1.4571	2 3	**200 778**	
Tile adapter frame de luxe 50			
Material: stainless steel 1.4571, height compensation: 50 mm	1 2 3 4 5	**200 765**	
Tile adapter frame de luxe 100			
Material: stainless steel 1.4571, height compensation: 100 mm	1 2 3 4 5	**200 773**	



ABS floor outlet

Floor outlet 1½", 90° outlet

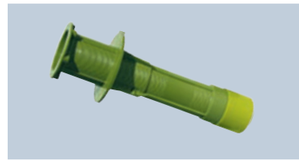
ABS floor outlet		Pool type	Order no.	(RG-B)
Consisting of basic element, flange frame and sieve cover				
Vertical connection [DN]	50, 2½" male thread			
90° outlet	2" female thread	1 2 3 4	**202 250**	

Floor outlet 1½" (vertical outlet or 90° outlet)		Pool type	Order no.	(RG-B)
Ground connection provided				
Material	Red brass/stainless steel 1.4571			
Connection	1½" female thread			
Floor outlet 1½", vertical outlet		1 2 3 4	**202 205**	
Floor outlet 1½", vertical outlet				
With pre-assembled PVC flange for sealing mass		5	**202 225**	
Floor outlet 1½", 90° outlet		1 2 3 4	**202 215**	
Floor outlet 1½", 90° outlet				
With pre-assembled PVC flange for sealing mass		5	**202 235**	
Flange kit				
Material	Brass	2 3	**202 201**	

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

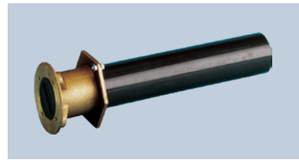
Wall ducts and inlet nozzles for ABS wall ducts

ABS wall duct		Pool type	Order no.	(RG-B)
Connection:				
Inside wall of pool	2" female thread			
Outside wall of pool [mm]	50 inside diameter			
Total length [mm]	300	1 2 3	**202 360**	



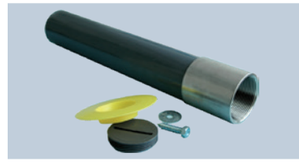
ABS wall duct

Straight wall duct 2"		Pool type	Order no.	(RG-B)
Material	Sealing flange: red brass			
	Extension: PVC			
Connection:				
Inside wall of pool	2" female thread			
Outside wall of pool [DN]	40			
Total length [mm]	400			
Straight wall duct 2"		1 2 3	**202 300**	
Straight wall duct 2"				
With pre-assembled PVC flange for sealing mass		5	**202 302**	



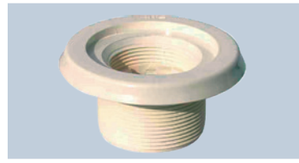
Straight wall duct 2"

Wall duct 2" for retrofitting		Pool type	Order no.	(RG-B)
Material	PVC, threaded sleeve:			
	stainless steel 1.4571			
Connection:				
Inside wall of pool	2" female thread			
Outside wall of pool [DN]	40			
Outside diameter [mm]	66			
Total length [mm]	400	4	**202 305**	

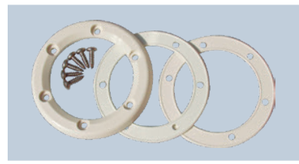


Wall duct 2" for retrofitting

ABS basic element		Pool type	Order no.	(RG-B)
Connection	2" male thread			
Length of thread [mm]	40	1 2 3 4	**202 251**	
ABS flange kit				
Including 6 self-cutting screws				
and 2 seals		2	**202 248**	
ABS threaded connection				
Connection	2" female thread incl. 2 seals	3	**202 247**	

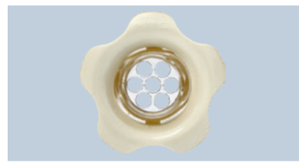


ABS basic element



ABS flange kit

ABS inlet nozzle		Pool type	Order no.	(RG-B)
Adjustable direction, suitable for ABS basic element				
Connection	1½" male thread			
Bore (Ø) [mm]	7 x 7	1 2 3 4	**202 255**	



ABS inlet nozzle

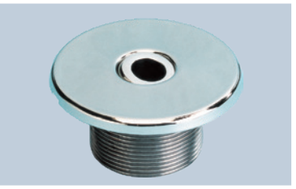
Mounting tool for ABS inlet nozzle	Pool type	Order no.	(RG-B)
To screw in and unscrew the basic element			
and to install the inlet nozzle			
Mounting tool for ABS inlet nozzle	1 2 3 4	**202 246**	

Mounting tool for ABS inlet nozzle

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

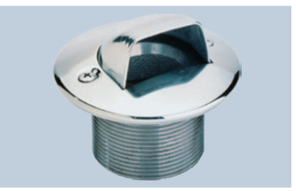
Inlet nozzles, conchoidal inlet pieces for wall ducts 202 300, 202 305

Inlet nozzle 4-hole bore



Inlet nozzle bore Ø 18 mm

Inlet nozzle with stainless steel ball, adjustable in direction		Pool type	Order no.	(RG-B)
Material	Basic element: red brass			
	Cover: stainless steel 1.4571			
Inlet nozzle				
Bore [mm]	4 x 8			
Length of thread [mm]	40			
Connection	2" male thread	1 3 4	202 145	
Inlet nozzle				
Bore [mm]	4 x 8			
Length of thread [mm]	70			
Connection	2" male thread	1 3 4 5	202 175	
Inlet nozzle				
Bore [mm]	Ø 18			
Length of thread [mm]	40			
Connection	2" male thread	1 3 4	202 135	
Inlet nozzle				
Bore [mm]	Ø 18			
Length of thread [mm]	70			
Connection	2" male thread	1 3 4 5	202 165	
Inlet nozzle*				
Bore [mm]	4 x 8			
Including flange with screws and 2 seals		2	202 195	
Inlet nozzle*				
Bore [mm]	Ø 18			
Including flange with screws and 2 seals		2	202 185	
Threaded connection				
Connection	2" female thread	3	202 150	



Conchoidal inlet piece

Conchoidal inlet piece		Pool type	Order no.	(RG-B)
Material	Basic element: red brass			
	Cover: stainless steel 1.4571			
Conchoidal inlet piece				
Length of thread [mm]	40			
Connection	2" male thread	1 3 4	202 155	
Conchoidal inlet piece F*				
Connection	4-hole flange with screws and 2 seals	2	202 240	
Threaded connection				
Connection	2" female thread	3	202 150	

* *Installation only possible in combination with wall ducts with order no. 202 300, 202 330 or 202 340.*

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Channel outlets, air outlet nozzles, floor inlet built-in parts, floor inlet nozzles

Channel outlet GENO-multiplex PVC-KG	Pool type	Order no.	(RG-B)
Channel outlet, connection DN 65	1	208 314	
Channel outlet, connection DN 65			
With pre-assembled PVC flange for sealing mass	5	208 316	
Channel outlet, connection DN 100	1	208 315	
Channel outlet, connection DN 100			
With pre-assembled PVC flange for sealing mass	5	208 317	

Note: *For channel outlets for vinyl-lined pools, please inquire.*

Air outlet nozzle	Pool type	Order no.	(RG-B)
With ventilation to prevent bubbling noises			
Material PVC			
Air outlet nozzle, connection DN 40	1 2 3 5	208 340	
Air outlet nozzle, connection DN 65	1 2 3 5	208 345	

Floor inlet built-in parts	Pool type	Order no.	(RG-B)
Connecting pipes to be provided by client			
Wall duct for floor inlet system			
Connection DN 80, total length 500 mm	1 2 5	202 310	
Inlet T-piece for floor inlet system			
Connection DN 80	1 2 5	202 405	
Inlet piece, 90° angle, for floor inlet system			
Connection DN 80	1 2 5	202 410	
Floor inlet piece - single duct			
Connection DN 80, total length 300 mm	1 2 5	202 415	
Special flange for sealing mass for floor inlet built-in parts			
Plastic, dimensions 207 x 207 mm, thickness 15 mm	5	202 425	

Floor inlet nozzles with adjustable volume, can be locked		Pool type	Order no.	(RG-B)
Material	Basic element: red brass			
Connection	1½" male thread			
Floor inlet nozzle				
Cover: stainless steel 1.4571		1 2 5	202 430	
Floor inlet nozzle				
Cover: white plastic		1 2 5	202 435	
Floor inlet nozzle				
Including clamp flange, screws and seals				
Cover: stainless steel 1.4571		3	202 460	
Floor inlet nozzle				
Including clamp flange, screws and seals				
Cover: white plastic		3	202 465	
Flange kit for floor inlet nozzle				
Material	Red brass	2	202 440	
Special threaded ring for floor inlet nozzle				
Connection	1½" female thread, thickness 20 mm	1 2 5	202 445	

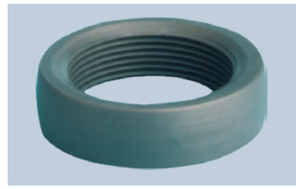
Channel outlet GENO-multiplex DN 65

Air outlet nozzle

Floor inlet system (90° angle, T-piece)

Floor inlet piece - single duct

Floor inlet nozzle



Special threaded ring

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

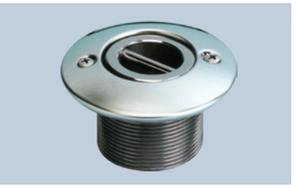
Wall ducts, suction nozzle, connection pieces, hose fitting

Wall duct 2", 45° angle

Wall ducts 2" with angle (45° or 2 x 90°)		Pool type	Order no.	(RG-B)
Material	Red brass, PVC			
Connection				
Inside wall of pool	2" female thread			
Outside wall of pool [DN]	40			
Wall duct 2", 45° angle		1 2 3	202 330	
Wall duct 2", 45° angle				
With pre-assembled PVC flange for sealing mass		5	202 332	
Wall duct 2", 2 x 90° angle		1 2 3	202 340	
Wall duct 2", 2 x 90° angle				
With pre-assembled PVC flange for sealing mass		5	202 342	

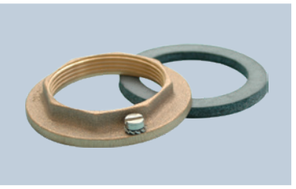
Suction nozzle

Suction nozzle		Pool type	Order no.	(RG-B)
Material	Basic element: PVC			
	Cover: stainless steel			
Suction nozzle 2" male thread, capacity 2.5 m³/h at a flow velocity of 0.3 m/s as per data sheet 60.03		1 2 3 4 5	202 009	
Flange kit* for suction nozzle		2	206 245	



Connection piece for pool cleaning device

Connection pieces		Pool type	Order no.	(RG-B)
(Required for pools with overflow channel) consisting of housing and closing plug				
Material	Basic element: red brass			
	Cover: stainless steel			
Connection piece for pool cleaning device*				
Connection	2" male thread			
Length of thread [mm]	40	1 3	206 230	
Connection piece for pool cleaning device*				
Connection	2" male thread			
Length of thread [mm]	70	1 3 5	206 235	
Connection piece for pool cleaning device*				
Connection	Flange	2	206 240	
Threaded connection for connection piece and suction nozzle				
Connection	2" female thread	3	202 150	



Threaded connection for connection piece

Hose fitting for suction hose		Pool type	Order no.	(RG-B)
Required for pools with overflow channel				
Material	NiSn coated brass	1 2 3 4 5	206 204	

Hose fitting for suction hose

* *Installation only possible in combination with wall ducts with order no. 202 300, 202 330 or 202 340.*

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Raw Water Tanks

Raw water tanks are designed for the collection of backwash, overflow and displacement water as well as for storing the backwash water. Thanks to a level control with filling water make-up feed, water losses are compensated and furthermore, the pump is protected from running dry.

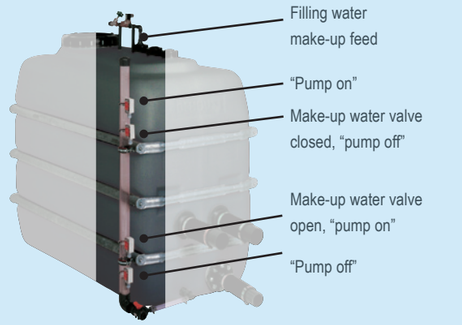
TIP

When a pool is equipped with various attractions, there is a strong wave movement. In this case, a larger raw water tank should be selected.

Functional description and design criteria

Switching points

When the upper level switch is reached, the filter system is "forcibly switched on", even outside the set operating times.
This is the case, for example, when water is displaced in the pool by bathers.



Dimensioning

The usable volume of the tank should be approx. 5 % of the pool volume.
As a rule of thumb, the following approximate values do apply
Filter series BWK/F 500 ⟶ 1 x 2 m³ raw water tank
Filter series BWK/F 600 ⟶ 1 x 4 m³ raw water tank
Filter series BWK/F 610 ⟶ 2 x 3 m³ raw water tank
Filter series BWK/F 800 ⟶ 2 x 3 m³ raw water tank

Raw water tanks

Raw water tank with level control, filling water make-up feed and flexible connections as accessories

Raw water tanks	Tank dimensions l x w x h) [mm]	Space required l x w x h) [mm]	Order no.	(RG-B)
Required to store the backwash, overflow and displacement water.				
The tank features a cleaning dome; the required connection pieces are included.				
Material: PE				
Basic raw water tank 1.1 B				
Volume approx. 1.1 m³	1,400 x 720 x 1,500	1,900 x 1,000 x 2,200	**208 102**	
Additional raw water tank 1.1 F				
Volume approx. 1.1 m³	1,400 x 720 x 1,500	1,900 x 800 x 2,200	**208 104**	
Basic raw water tank 2 B				
Volume approx. 2 m³	2,080 x 720 x 1,700	2,500 x 1,000 x 2,500	**208 100**	
Additional raw water tank 2 F				
Volume approx. 2 m³	2,080 x 720 x 1,700	2,500 x 800 x 2,500	**208 105**	
Basic raw water tank 3 B				
Volume approx. 3 m³	2,230 x 995 x 1,700	2,700 x 1,200 x 2,500	**208 103**	
Additional raw water tank 3 F				
Volume approx. 3 m³	2,230 x 995 x 1,700	2,700 x 1,100 x 2,500	**208 106**	
Basic raw water tank 4 B				
Volume approx. 4 m³	2,430 x 1,000 x 2,100	3,400 x 1,300 x 2,600	**208 108**	
Additional raw water tank 4 F				
Volume approx. 4 m³	2,430 x 1,000 x 2,100	3,400 x 1,100 x 2,600	**208 109**	

Special raw water tank with level control and filling water make-up feed as accessories

Special raw water tanks	Tank dimensions (l x w x h) [mm]	Space required (l x w x h) [mm]	Order no.	(RG-B)
Required to store the backwash, overflow and displacement water.				
The tank features a press-in lid; the required connection pieces are included.				
Material: PP				
Special raw water tank 1 S				
Volume approx. 1 m³	1,500 x 1,350 x 850	1,900 x 1,500 x 1,600	**212 404**	
Special raw water tank 2 S				
Volume approx. 2 m³	2,300 x 1,350 x 850	2,700 x 1,500 x 1,600	**212 406**	

For special sizes, please inquire.
***Note:** For accessories, please refer to page 27.*

Accessories for raw water tanks, leaf catcher

Level control and filling water make-up feed		Order no.	(RG-B)
Consisting of filling water make-up feed with solenoid valve (power supply 24 V/DC) and Y-valve as well as level control with 4 switching points, 3-way ball valve made of PVC, compatible with the spaliQ:UF150 control unit.			
Power supply [V]	24 DC		
Filling water connection [DN]	20		
For basic raw water tank 1.1 B		**208 261**	
For basic raw water tank 2 B		**208 262**	
For basic raw water tank 3 B		**208 263**	
For basic raw water tank 4 B		**208 264**	
For special raw water tanks 1 S and 2 S		**208 267**	

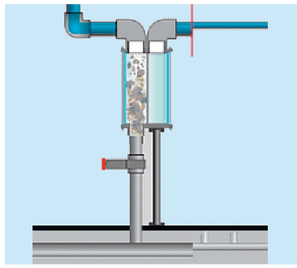
Level control and filling water make-up feed		Order no.	(RG-B)
Consisting of filling water make-up feed with solenoid valve (power supply 230 V/50 Hz) and Y-valve as well as level control with 4 switching points, 3-way ball valve made of PVC, compatible with GENO-BW-tronic control unit.			
Power supply [V, Hz]	230, 50		
Filling water connection [DN]	20		
For basic raw water tank 1.1 B		**208 221**	
For basic raw water tank 2 B		**208 222**	
For basic raw water tank 3 B		**208 223**	
For basic raw water tank 4 B		**208 224**	
For special raw water tanks 1 S and 2 S		**208 227**	

GENO-Multi Niveau and filling water make-up feed	Order no.	(RG-B)
Filling level indicator with filling water make-up feed, incl. solenoid valve (power supply 24 V/50 Hz); independent control unit.		
For basic raw water tanks 1.1 - 4 B	**208 179**	
For special raw water tanks 1 S and 2 S	**208 192**	

Attention: For filter systems F 500/600 HK, AC, the level control GENO-Multi Niveau is mandatory.

Flexible connections	Order no.	(RG-B)
Hose connections for the flexible connection of the PVC pool lines.		
Suitable for raw water tanks 1.1 B, 2 B and 3 B	**208 115**	
Suitable for additional raw water tanks 1.1 F, 2 F and 3 F	**208 116**	
Suitable for basic raw water tank 4 B	**208 170**	
Suitable for additional raw water tank 4 F	**208 175**	

Leaf catcher for channel overflow collection pipe DN 100		Order no.	(RG-B)
By means of a separating sieve plate (3 mm hole circle) made of stainless steel 1.451, coarse impurities are retained in the leaf catcher and therefore cannot get into the raw water tank. Upon opening a ball valve, the impurities are discharged to the drain. The transparent tank is completely pre-assembled.			
Channel connection 2x [DN]	100		
Drain connection [DN]	65		
Tank dimensions:			
Diameter [mm]	350		
Height [mm]	538		
Min. installation height [mm]	900	**208 350**	



Leaf catcher

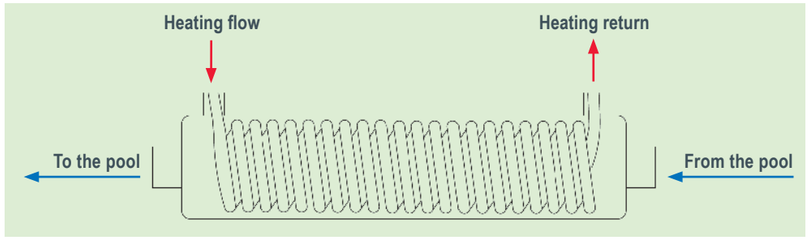
Heat Exchangers

TIP

In case of outdoor pools, we recommend installing a cover. This reduces the release of evaporation heat and thus keeps the heating costs within limits.

Information on the dimensioning of heat exchangers

Generally, the pool is heated by means of the heating system existing in the building. In this case, a heat exchanger is installed in the treatment circuit. In a second circuit, the heating water flows through the heat exchanger in a reverse direction and gives off heat to the pool water.



Regarding the transfer capacity of the heat exchanger, the temperature of the heating flow is decisive. Furthermore, the pool volume, the pool and heating water flow rate as well as the desired pool water temperature must be taken into account. The heat exchanger is optimally dimensioned if the desired water temperature is reached within 36 - 72 hours during the initial heat-up.

Experience has shown that the following heat losses do occur in the pool:

- Indoor pools 0.5 - 1.0 °C
- Outdoor pools 1.0 - 2.5 °C (for approx. 5 months of use)

These, however, only play a minor role with regard to the dimensioning of the heat exchanger as the capacity required for the initial heat-up is the decisive factor. As the heat-up only takes places during the operation of the filter, we recommend a control unit for the pool that features a temperature controller.

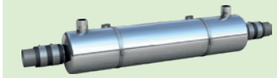
Note: In private buildings, the boiler output does not need to be increased due to heating the pool.

Tube bundle heat exchangers with/without pump – stainless steel and titanium

Transfer capacity (approximate values) based on a pool water temperature of 20 °C and different heating flow temperatures:

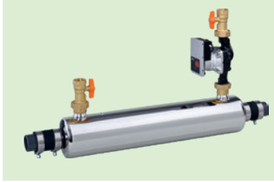
Heating flow temperature	GENO-WT 42	GENO-WT 76	GENO-WT 105	GENO-WT 146	GENO-WT 210
At 90 °C	42 kW	84 kW	133 kW	175 kW	259 kW
At 60 °C	24 kW	48 kW	76 kW	100 kW	148 kW
At 50 °C	18 kW	36 kW	57 kW	75 kW	111 kW

Heat exchanger GENO-WT – stainless steel	Transfer capacity at a heating flow of 90 °C	Order no.	(RG-B)
Housing with flow-optimised heating bundle as well as thermowell for temperature control, flexible hose connections and PVC connection nipples, including fixing clamps			
Material: stainless steel 1.4404*			
Connection on heating side: 1" male thread			
Heat exchanger GENO-WT 42			
Connection on pool water side: DN 40	42 kW	**208 570**	
Heat exchanger GENO-WT 76			
Connection on pool water side: DN 40	84 kW	**208 575**	
Heat exchanger GENO-WT 105			
Connection on pool water side: DN 50	133 kW	**208 580**	
Heat exchanger GENO-WT 146			
Connection on pool water side: DN 50	175 kW	**208 585**	
Heat exchanger GENO-WT 210			
Connection on pool water side: DN 50	259 kW	**208 590**	



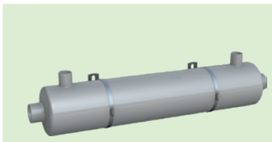
Heat exchanger GENO-WT 76

Compact heat exchanger GENO-WT-K – stainless steel	Order no.	(RG-B)
Heat exchanger as described above, additionally featuring a heating circulation pump (power supply 230 V/50 Hz), a non-return valve and shut-off valves, connection on heating side 1" female thread, completely pre-assembled		
Compact heat exchanger GENO-WT-K 42	**208 470**	
Compact heat exchanger GENO-WT-K 76	**208 475**	



Heat exchanger GENO-WT-K 76

Titanium heat exchanger GENO-WT-T – Titanium	Transfer capacity at a heating flow of 90 °C/ at a heating flow of 60 °C	Order no.	(RG-B)
Housing with flow-optimised heating bundle as well as thermowell, including fastening bracket, specifically for water with a high chloride concentration			
Material: titanium			
Titanium heat exchanger GENO-WT-T 42			
Connection on heating side: ¾" male thread			
Connection on pool water side: DN 40	42/24 kW	**208 405**	
Titanium heat exchanger GENO-WT-T 76			
Connection on heating side: 1" male thread			
Connection on pool water side: DN 40	84/48 kW	**208 410**	
Titanium heat exchanger GENO-WT-T 105			
Connection on heating side: 1" male thread			
Connection on pool water side: DN 50	126/72 kW	**208 420**	



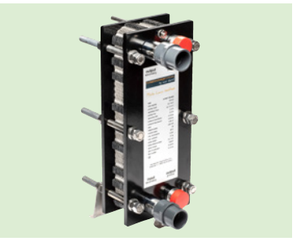
Heat exchanger GENO-WT-T 76

** Limit values for stainless steel 1.4404: Chloride ions < 500 mg/l and pH value 6.8 - 7.8.*
All heat exchangers are resistant to glycol.

Plate heat exchangers

Transfer capacity (approx. values) based on a pool temperature of 20 °C and different heating flow temperatures:

Heating flow temperature	X-PWT 407	X-PWT 411	X-PWT 419	X-PWT 423	X-PWT 435	X-PWT 439
at 70 °C	40 kW	75 kW	135 kW	170 kW	260 kW	300 kW
at 60 °C	33 kW	60 kW	105 kW	133 kW	202 kW	235 kW



Stainless steel plate heat exchanger

Stainless steel plate heat exchanger	Transfer capacity at a heating flow of 70 °C/ heating flow of 60 °C	Order no.	(RG-B)
Plate heat exchanger with screwed plates			
Material	stainless steel 1.4401*		
Connection	on heating side 1¼“ male thread		
Connection	on pool water side DN 32		
Plate heat exchanger X-PWT 407	40/33 kW	**208000020000**	
Plate heat exchanger X-PWT 411	75/60 kW	**208000030000**	
Plate heat exchanger X-PWT 419	135/105 kW	**208000040000**	
Plate heat exchanger X-PWT 423	170/133 kW	**208000050000**	
Plate heat exchanger X-PWT 435	260/220 kW	**208000060000**	
Plate heat exchanger X-PWT 439	300/235 kW	**208000070000**	

NEW

* *Limit values for stainless steel 1.4401: chloride ions < 500 mg/l and pH value 6.8 - 7.8*
All heat exchangers are resistant to glycol.

Shut-off kit, electrical heat exchangers, control units and blower air preheater

Shut-off kit for heat exchangers	Order no.	(RG-B)
Required in case of higher heating pressures if there already is a heating pump on site. Kit consisting of 1 brass solenoid valve (temperature-resistant) and 2 brass pump ball valves (connections 1" female thread)		
Shut-off kit for heat exchangers		
Suitable for heat exchangers GENO-WT and GENO-WT-T	**208 444**	

Electrical heat exchanger GENO-EWT 12

Electrical heat exchanger GENO-EWT	Capacity [kW]	Length [mm]	Order no.	(RG-B)
With stainless steel heating rod, including flow controller, regulating thermostat 0 - 40 °C and safety thermostat 0 - 55 °C. Material: stainless steel 1.4404, power supply 400 V/50 Hz, hose connection DN 40				
Electrical heat exchanger GENO-EWT 6				
Power input 9 A, fuse protection 10 A	6	500	**212 460**	
Electrical heat exchanger GENO-EWT 12				
Power input 18 A, fuse protection 20 A	12	500	**212 470**	
Electrical heat exchanger GENO-EWT 18				
Power input 27 A, fuse protection 35 A	18	600	**212 480**	

Switch boxes for electrical heat exchangers	Order no.	(RG-B)
Required when an electrical heat exchanger is used in connection with control units GENO-BW-tronic/BWH-W, power supply 400 V/50 Hz		
Switch box for electrical heat exchangers GENO-EWT 6 and GENO-EWT 12	**208 692**	
Switch box for electrical heat exchanger GENO-EWT 18	**208 694**	

Blower air preheater GENO-EWT-L 1.5	Capacity [kW]	Length [mm]	Order no.	(RG-B)
With stainless steel heating rod, including regulating thermostat 0 - 90 °C. Material: stainless steel 1.4404, power supply 230 V/50 Hz, hose connection DN 50				
Blower air preheater GENO-EWT-L 1.5	1.5	510	**208 495**	

Digital temperature controller, solar ball valve and accessories

Digital temperature controller		Order no.	(RG-B)
Required if no temperature control is available at the pool control unit or a temperature controller is requested in the pool room. The unit is installed in an on-wall housing.			
Power supply [V, Hz]	230, 50		
Protection	IP 54		
Switching hysteresis [°C]	+/- 0.5		
Dimensions (w x h x d) [mm]	80 x 176 x 96	**208 639**	

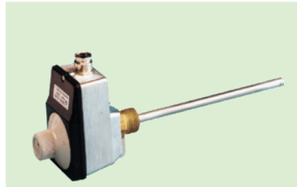
Digital temperature controller

Thermowell		Order no.	(RG-B)
Material	PVC		
Connection	½" male thread		
Installation length [mm]	100		
Diameter [mm]	12	**208 500**	

3-way solar ball valve Control		Order no.	(RG-B)
3-way solar ball valve with temperature controller, 2 temperature sensors and relay for interconnection with a Grünbeck pool control unit. If the water temperature falls below the setpoint, a circulation pump will be switched on. The solar system is only flown through when heat is present.			
Connection [DN]	50		
Power supply [V, Hz]	230, 50		
Protection	IP 54		
Switching hysteresis [°C]	+/- 1.5		
Preset difference in temperature [°C]	4	**208 636**	

3-way solar ball valve Control

Thermostat 10 - 60 °C		Order no.	(RG-B)
Used to limit the max. temperature, setting range 10 - 60 °C, including stainless steel thermowell			
Length [mm]	150		
Switching hysteresis [°C]	+/- 2		
Connection	½" male thread	**208 625**	



Thermostat

Pool Cleaning Devices

TIP

Frequently, the steps or the edges of pool covers are quite narrow and therefore, have an adverse effect on the function of self-propelled devices. Glass mosaic tiles have a very smooth surface for which special brushes are available.

We will be happy to assist you!

Function of pool cleaning devices

Filter-dependent devices
These devices are connected to the suction line of the filter system. In order to remove the impurities from the system, the filter must be backwashed.

Filter-independent devices
Our models feature their own pump for cleaning and propulsion.

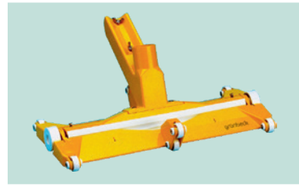
Manual devices
The cleaning brush is plugged onto a telescopic pole and manually directed through the pool. Thus, different sections can be cleaned individually.

Self-propelled devices
Self-propelled devices offer the highest level of convenience. They are driven by means of the filter system (Vac 2 Fun G) or by an integrated pump (“active” devices).
Thanks to an auto program, the devices independently cover all pool areas.

Pool cleaning devices and accessories – filter-dependent

Pool cleaning devices Vac 8 and 470	Pool type	Order no.	(RG-B)
Material: plastic			
Pool cleaning device Vac 8			
Version with 8 nylon brushes and lateral brushes, operating width 260 mm	1 2 3 4 5	**206 002**	
Pool cleaning device 470			
Special joint system with one nylon brush, operating width 470 mm	1 2 3 4 5	**206 001**	

Pool cleaning device Vac 8



Pool cleaning device 470

Pool cleaning device Vac 2 Fun G	Pool type	Order no.	(RG-B)
For powerless operation via a circulation pump (at least 6 m³/h), including an adapter hose of 1 m with 4 floats as well as a connection adapter for the skimmer			
Pool cleaning device Vac 2 Fun G	1 2 3 4 5	**206 325**	
Set of brushes			
2 lateral and 2 floor brushes each for retrofitting Vac 2 Fun G	1 2 3 4 5	**206 605**	

Pool cleaning device Vac 2 Fun G

Pool cleaning device Vac 2 Fun G with set of brushes

Accessories	Order no.	(RG-B)
Leaf net		
To remove leaves and other larger impurities	**206 100**	
Telescopic pole		
Suitable for pool cleaning devices Vac 8, 470 and leaf net, continuously adjustable between 2.50 - 5.50 m, material: anodised aluminium	**206000020000**	
Vario suction hose		
Individual lengths available in sections of 1.5 m, inside diameter of hose 38 mm	**857 76 004**	

For connection pieces for suction hoses in skimmer pools, please refer to page 19.
For connection pieces and hose fittings for suction hoses in pools with overflow channel, please refer to page 24.

Leaf net

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Pool cleaning devices – filter-independent

Pool cleaning device James G

Pool cleaning device James G		Pool type	Order no.	(RG-B)
Underwater vacuum cleaner made of ABS including 18 m cable and 100 µm filter bag				
Power supply [V, Hz]	230, 50			
Power input [kW]	0.35			
Suction volume [m³/h]	7			
Weight [kg]	8			
Pool cleaning device James G		① ② ③ ④ ⑤	**206 300**	
Three-part telescopic pole				
Suitable for pool cleaning device James G, continuously adjustable from 2.50 - 5.50 m, material: anodised aluminium			**206000020000**	
100 µm filter bag				
Suitable for pool cleaning device James G			**206 615**	

Pool cleaning device smart active

Pool cleaning device smart active		Pool type	Order no.	(RG-B)
Fully automatic floor cleaning device including cable swivel joint and 18 m cable. Suitable for private pools up to a length of 10 m.				
Power supply [V, Hz]	230, 50			
Output voltage [V]	30			
Suction volume [m³/h]	16			
Weight [kg]	9.5			
Cleaning cycle (hours)	3			
Pool cleaning device smart active		① ② ③ ④ ⑤	**206 310**	

Pool cleaning device comfort active

Pool cleaning device comfort active		Pool type	Order no.	(RG-B)
Fully automatic, self-programming cleaning robot for floor and walls, featuring a combined brush, cable swivel joint, 18 m cable and caddy for easy transport. Suitable for private pools up to a length of 12 m.				
Power supply [V, Hz]	230, 50			
Output voltage [V]	30			
Suction volume [m³/h]	17			
Weight [kg]	10			
Cleaning cycle (hours)	2.5			
Pool cleaning device comfort active		① ② ③ ④ ⑤	**206 315**	

Pool cleaning device de luxe active

Pool cleaning device de luxe active		Pool type	Order no.	(RG-B)
Fully automatic cleaning robot with remote control, for floor and walls, featuring a combined brush, cable swivel joint, 18 m cable and caddy for easy transport. Suitable for private pools up to a length of 12 m.				
Power supply [V, Hz]	230, 50			
Output voltage [V]	30			
Suction volume [m³/h]	17			
Weight [kg]	10.5			
Cleaning cycle (hours)	1.5/2.5/3.5			
Pool cleaning device de luxe active		① ② ③ ④ ⑤	**206 320**	

① Tiled concrete pool ② Vinyl-lined pool ③ Prefab pool ④ Concrete pool, retrofitting ⑤ Sealing mass (also available with optional press flange)

Attractions

Interesting facts about underwater spotlights

The further development of LED lighting technology has led to a considerable improvement in efficiency. LED spotlights have a longer service life and lower energy consumption than PAR or halogen spotlights. Due to the improved lighting technology, the dimensioning is now based on lumens/m² water surface (instead of watt/m²).

Efficiency Ratio of the radiated light power to the electrical power used • 3 times higher for LED lamps than for halogen lamps	**Kelvin** Colour temperature • The lower the Kelvin value, the “warmer” the light
Lumen (luminous flux) Unit of luminous flux • Total quantity of light a lamp emits in all directions	**DMX** Digital Multiplex • Thanks to a special software, the lighting technology can be controlled by computer
Lumens per watt (lm/W) Light output, i.e. the effective conversion of electrical energy into light • 5 times higher for LEDs than for halogen lamps	**Lux** Illuminance • Measure of luminuous flux incident on unit area of a surface

Recommended guide value for the dimensioning of spotlights:
400 - 500 lm/m² water surface

Planning criteria:
Modern underwater spotlights not only differ in their performance but in their light cone as well. The shape of the pool and special areas such as stairs or water attractions need to be taken into consideration. The requirements of the customer, such as a glare-free water surface, colour changes, brightness or switching technology, should already be taken into account in the planning stage.

TIP

LED spotlights require about 80 % less energy than halogen spotlights. The investment thus pays off after a short time already.

Illumination packages/Design examples

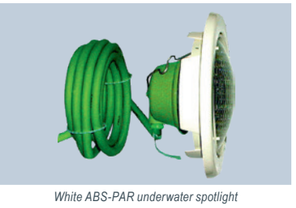
Underwater illumination packages for a tiled concrete pool 8 x 4 m					
	ABS-PAR White 300 W	Halogen LE White 180 W	LED Cool white 16/43 W	LED RGB-W 16/43 W	LED RGB-W with dimmer 28/80 W
Lamp holder	3 pieces	6 pieces	2 pieces	4 pieces	2 pieces
Underwater spotlight	3 pieces	6 pieces	2 pieces	4 pieces	2 pieces
Electronic ballast	–	–	–	1 piece	–
Dimmer	–	–	–	–	1 piece
Power supply unit	2 pieces	2 pieces	1 piece	–	1 piece
Wireless receiver module incl. remote control	–	–	–	1 piece	–
Distributor box	3 pieces	6 pieces	2 pieces	4 pieces	2 pieces
Order no. (RG-B)	**207 380**	**207 385**	**207000130000**	**207000120000**	**207000110000**

ABS-PAR, ABS-LED-RGB GC 315 underwater spotlights and accessories

Individual components for individual composition

Lamp holder for ABS underwater spotlights

Lamp holder for ABS underwater spotlights	Pool type	Order no.	(RG-B)
Material: ABS, including 2.5 m cable protection hose*			
Lamp holder for ABS underwater spotlights	1 2 3	**207 295**	
Flange kit for ABS lamp holder Including 2 seals and screws	2 3	**207 285**	



White ABS-PAR underwater spotlight

White ABS-PAR underwater spotlight	Order no.	(RG-B)
Including 3 m special cable* (lamp holder not included), material: ABS, 4,000 lumens, power 300 W, connection 12 V		
White ABS-PAR underwater spotlight	**207 290**	

ABS-LED-RGB GC 315 underwater spotlight

ABS-LED-RGB GC 315 underwater spotlight	Order no.	(RG-B)
Including 3 m special cable* (lamp holder not included), material: ABS, 450 lumens, power 17 W, connection 12 V		
ABS-LED-RGB GC 315 underwater spotlight	**207 293**	

Remote control and wireless amplifier for ABS-LED-RGB GC 315	Order no.	(RG-B)
Remote control for ABS-LED-RGB GC 315	**207 243**	
Controller for ABS-LED-RGB GC 315 Required in case of poor wireless transmission (steel and concrete pools)	**207 241**	

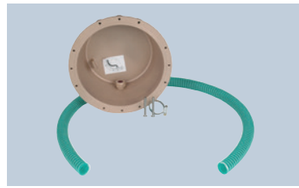
Power supply units	Max. connection option	Order no.	(RG-B)
Power supply unit 350 VA	1 UWS, 300 W/12 V	**207 210**	
Power supply unit 700 VA	2 UWS, 300 W/12 V	**207 222**	
Power supply unit 50 VA	2 UWS, 20 W/12 V	**207 275**	

* *Longer cables available as well - please inquire.*

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

White halogen underwater spotlights and accessories

Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W	Pool type	Order no.	(RG-B)
Material: red brass, including 1.5 m cable protection hose*			
Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W	1 2	**207 255**	
	3	**207 256**	
Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W with pre-assembled PVC flange for sealing mass	5	**207 258**	
Flange ring kit for UWS type L 180	2	**207 260**	

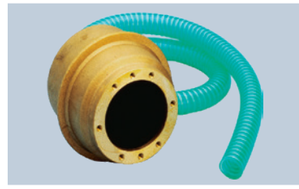


Lamp holder for underwater spotlights LE/ LW 180 and Power-LED/LED RGB-W 28/80 W

White underwater spotlights LE/LW 180	Cover	Order no.	(RG-B)
Including 2.5 m special cable* (lamp holder not included), material: red brass, 2,140 lumens, power 2 x 60 W, light output 180 W, connection 12 V			
White underwater spotlight LE 180	Stainless steel 1.4571	**207 252**	
White underwater spotlight LW 180	White plastic	**207 253**	

White underwater spotlight LE 180

Lamp holder for mini underwater spotlights White LE/LW LED 16 and Power-LED/LED RGB-W 4/11 W	Pool type	Order no.	(RG-B)
Material: red brass, including 1 m cable protection hose*			
Lamp holder for mini underwater spotlights White LE/LW LED 16 and Power-LED/LED RGB-W 4/11 W	1 2	**207 135**	
	3	**207 160**	
Lamp holder for mini underwater spotlights White LE/LW LED 16 and Power-LED/LED RGB-W 4/11 W with pre-assembled PVC flange for sealing mass	5	**207 137**	
Flange kit for lamp holder Including screws and 2 seals	2	**207 136**	



Lamp holder for white mini underwater spotlights LE/LW LED 16 and mini Power-LED/LED RGB-W 4/11 W

White mini underwater spotlights LE/LW LED 16	Cover	Pool type	Order no.	(RG-B)
Material: red brass, including 2 m special cable* (lamp holder not included), 620 lumens, power 8 W, connection 12 V				
	Stainless steel 1.4571	1 2 5	**207000140000**	
White mini underwater spotlight LE LED 16	Ni-SN-coated red brass	3	**207000150000**	
	White-coated stainless steel	1 2 5	**207000160000**	
White mini underwater spotlight LW LED 16	White-coated red brass	3	**207000170000**	

White mini underwater spotlight LE LED 16

Power supply units	Max. connection option	Order no.	(RG-B)
Power supply unit 175 VA	1 UWS, 175 W/12 V	**207 213**	
Power supply unit 350 VA	2 UWS, 175 W/12 V	**207 210**	
Power supply unit 525 VA	3 UWS, 175 W/12 V	**207 212**	
Power supply unit 25 VA	2 UWS, 8 W/12 V	**207000180000**	

* *Longer cables available as well - please inquire.*

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Cool white Power-LED underwater spotlights and accessories

Cool white Power-LED underwater spotlight, 28/80 W

Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W

Cool white Power-LED underwater spotlight, 16/43 W

Cool white Power-LED underwater spotlight, 4/11 W

Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W			
For order numbers 207 255, 207 256, 207 258 and 207 260, please refer to page 37			

Cool white Power-LED underwater spotlight, 28/80 W	Cover	Order no.	(RG-B)
Including 5 m special cable* (lamp holder not included), material: red brass, 14,900 lumens, power 80 W, connection 24 V			
Cool white Power-LED underwater spotlight, 28/80 W	Stainless steel 1.4404	**207000040000**	

Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W	Pool type	Order no.	(RG-B)
Material: red brass, including 1 m cable protection hose*			
Lamp holder for underwater spotlights	1 2	**207 257**	
Power-LED/LED RGB-W 16/43 W	3	**207 350**	
Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W with pre-assembled PVC flange for sealing mass	5	**207 259**	
Flange kit for lamp holder	2	**207 265**	

Cool white Power-LED underwater spotlight, 16/43 W	Cover	Pool type	Order no.	(RG-B)
Including 5 m special cable* (lamp holder not included), material: red brass, 7,900 lumens, power 43 W, connection 24 V				
Cool white Power-LED underwater spotlight, 16/43 W	Stainless steel 1,4404	1 2 5 3	**207000020000** **207000050000**	

Lamp holder for white mini underwater spotlights LE/LW LED 16, Power-LED/LED RGB-W 4/11 W				
For order numbers 207 135, 207 160, 207 137 and 207 136, please refer to page 37				

Cool white Power-LED underwater spotlight, 4/11 W	Cover	Pool type	Order no.	(RG-B)
Material: red brass, including 5 m special cable* (lamp holder not included), 1,890 lumens, power 11 W, connection 24 V, outside diameter 110 mm				
Cool white Power-LED underwater spotlight, 4/11 W	Stainless steel 1.4404	1 2 3 5	**207000010000**	

Power supply unit/sub-distributor	Max. connection option	Order no.	(RG-B)
When connecting more than four 4/11 W spotlights, an additional sub-distributor is required			
	2 UWS 28/80 W/24 V or 4 UWS 16/43 W/24 V or		
Power supply unit 24 V	8 UWS 4/11 W/24 V	**207 355**	
Sub-distributor	starting from 5 UWS 4/11 W	**207 365**	

* *Longer cables, rectangular covers as well as neutral white and warm white underwater spotlights available as well - please inquire.*

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Power-LED RGB-W underwater spotlights and accessories

Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W	Pool type	Order no.	(RG-B)
Material: red brass, including 1.5 m cable protection hose*			
Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W	1 2 3	**207 255** **207 256**	
Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W with pre-assembled PVC flange for sealing mass	5	**207 258**	
Flange ring kit for UWS type L 180	2	**207 260**	

Power-LED RGB-W underwater spotlight, 28/80 W	Cover	Order no.	(RG-B)
Including 5 m special cable* (lamp holder not included), material: red brass, 11,100 lumens, power 80 W, connection 24 V			
Power-LED RGB-W underwater spotlight, 28/80 W	Stainless steel 1.4404	**207000090000**	

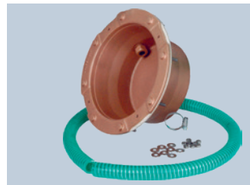
Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W	Pool type	Order no.	(RG-B)
Material: red brass, including 1 m cable protection hose*			
Lamp holder for underwater spotlights	1 2	**207 257**	
Power-LED/LED RGB-W 16/43 W	3	**207 350**	
Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W with pre-assembled flange for sealing mass	5	**207 259**	
Flange kit for lamp holder	2	**207 265**	

Power-LED RGB-W underwater spotlight, 16/43 W	Cover	Pool type	Order no.	(RG-B)
Including 5 m special cable* (lamp holder not included), material: red brass, 5,500 lumens, power 43 W, connection 24 V				
Power-LED RGB-W underwater spotlight, 16/43 W	Stainless steel 1.4404	1 2 5 3	**207000070000** **207000100000**	

Lamp holder for white mini underwater spotlights LE/LW LED 16 and Power-LED/LED RGB-W 4/11 W				
For order numbers 207 135, 207 160, 207 137 and 207 136, please refer to page 37				

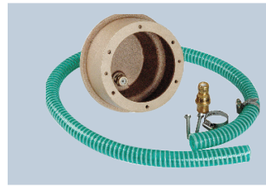
Power-LED RGB-W underwater spotlight, 4/11 W	Cover	Pool type	Order no.	(RG-B)
Including 5 m special cable* (lamp holder not included), material: red brass, 1,220 lumens, power 11 W, connection 24 V, outside diameter 110 mm				
Power-LED RGB-W underwater spotlight, 4/11 W	Stainless steel 1.4404	1 2 3 5	**207000060000**	

* *Longer cables, rectangular covers as well as cool white and warm white underwater spotlights available as well - please inquire.*



Lamp holder for underwater spotlights LE/LW 180 and Power-LED/LED RGB-W 28/80 W for prefab pools

Power-LED RGB-W underwater spotlight, 28/80 W



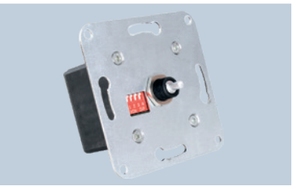
Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W

Power-LED RGB-W underwater spotlight, 16/43 W

Power-LED RGB-W underwater spotlight, 4/11 W

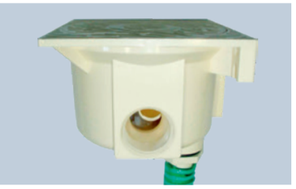
1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Accessories for Power-LED RGB-W underwater spotlights



Dimmer/colour changer

Wireless remote control for Power-LED RGB-W



ABS distributor box

LE distributor box

Dimmer/colour changer	Order no.	(RG-B)
For continuous dimming of Power-LED underwater spotlights and for controlling the colour gradient of Power-LED RGB-W		
Dimmer/colour changer	**207 245**	

Ballast for Power-LED RGB-W/sub-distributor	Order no.	(RG-B)
Connection of max. 2 pieces 28/80 W or 4 pieces 16/43 W or 4 pieces 4/11 W. When connecting more than four 4/11 W spotlights, an additional sub-distributor is required		
Ballast for Power LED 24 V – RGB-W	**207 360**	
Sub-distributor for Power-LED 3.0	**207 365**	

Wireless receiver module	Order no.	(RG-B)
Wireless receiver module with antenna and cable including wireless remote control for Power-LED RGB-W	**207 238**	

Power supply unit/sub-distributor	Max. connection option	Order no.	(RG-B)
When connecting more than four 4/11 W spotlights, an additional sub-distributor is required			
	2 UWS 28/80 W/24 V or 4 UWS 16/43 W/24 V or 8 UWS 4/11 W/24 V		
Power supply unit 24 VA		**207 355**	
Sub-distributor	starting from 5 UWS 4/11	**207 365**	

ABS distributor box		Material	Order no.	(RG-B)
Dimensions (l x w x h) [mm]	117 x 117 x 120			
Connection	1 x PG 29 2 x PG 21	ABS	**202 245**	

Distributor box	Material of visible surface	Order no.	(RG-B)
Dimensions (l x w x h) [mm]	115 x 115 x 68		
LE distributor box	Stainless steel	**207 270**	
LW distributor box	White-coated stainless steel	**207 271**	

Plug-in DMX module	Order no.	(RG-B)
To activate the RGB-W underwater spotlights via an external computer with DMX program		
Plug-in DMX module	**207 225**	

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Counter-current systems

NEW

Example for counter-current system Essence			(RG-B)
Pool type	1	2	
Installation kit	**209000100000**	**209000100000**	
Prefab kit	**209000120000**	**209000120000**	
Pump bracket	**209000130000**	**209000130000**	
Flange kit	–	**209000110000**	

Counter-current system Essence – Installation kit	Pool type	Order no.	(RG-B)
Red brass	1 2	**209000100000**	

Counter-current system Essence – Prefab kit	Pool type	Order no.	(RG-B)
Consisting of connection fitting made of Baydur® with integrated suction and cover made of V4A, piezo switch with 5 m cable as well as continuous addition of air, pump made of red brass, switching, set of slides as well as small parts. All parts coming into contact with the pool water are made of plastic, stainless steel V4A or red brass. Prefab kit with a flow rate of approx. 60 m³/h at a counter-pressure of 1.1 bar, addition of air approx. 5 %.			
2.6 kW, three-phase current, 230/400 V, 50 Hz	1 2	**209000120000**	

Counter-current system Essence – Flange kit	Pool type	Order no.	(RG-B)
Flange kit with seals and screws, red brass	2	**209000110000**	

Counter-current system Essence – Pump bracket	Order no.	(RG-B)
Counter-current system Essence – Pump bracket	**209000130000**	

Example for counter-current-system Visa					(RG-B)
Pool type	1	2	3	5	
Installation kit	**209000140000**	**209000140000**	**209000140000**	**209000140000**	
Prefab kit	**209000170000**	**209000170000**	**209000170000**	**209000170000**	
Flange kit	–	**209000150000**	**209000150000**	–	
Flange kit for vinyl coating	–	–	–	**209000160000**	

Counter-current system Visa – Installation kit	Pool type	Order no.	(RG-B)
Material ABS	1 2 3 5	**209000140000**	

Counter-current system Visa – Prefab kit	Pool type	Order no.	(RG-B)
Consisting of silver/black ABS front cover, illuminated piezo button with 7 m cable, control box with process-controlled current monitoring, solenoid valve to switch on/off air, pump 3.5 kW/400 V/50 Hz, decoupling hoses for suction and pressure side, 2 ball valves DN 50, small parts.			
3.5 kW, 400 V, 50 Hz	1 2 3 5	**209000170000**	

Counter-current system Visa – Flange kit	Pool type	Order no.	(RG-B)
Material ABS	2 3	**209000150000**	

Counter-current system Visa – Flange kit	Pool type	Order no.	(RG-B)
Vinyl coating	5	**209000160000**	

Note: *For version with sealing mass, please inquire (Power-Stream and Essence).*

Counter-current system Essence Prefab kit

Counter-current system Essence Installation kit

Counter-current system Essence Pump bracket

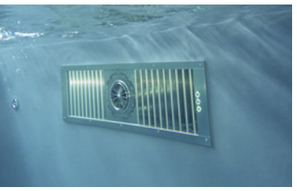
Counter-current system Visa Prefab kit

Counter-current system Visa Flange kit

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Counter-current systems

NEW



Counter-current system Power-Stream
Installation example

Example for counter-current system Power-Stream I				(RG-B)
Pool type	**1**	**2**	**3**	
Installation kit	**209000040000**	**209000040000**	**209000040000**	
Prefab kit 2.6 kW	**209000070000**	**209000070000**	**209000070000**	
Flange kit	–	**209000050000**	–	
Flange for prefab pool	–	–	**209000060000**	

Example for counter-current system Power-Stream II				(RG-B)
Pool type	**1**	**2**	**3**	
Installation kit	**209000040000**	**209000040000**	**209000040000**	
Prefab kit 5.5 kW	**209000080000**	**209000080000**	**209000080000**	
Flange kit	–	**209000050000**	–	
Flange for prefab pool	–	–	**209000060000**	

Counter-current system Power-Stream – Installation kit	Pool type	Order no.	(RG-B)
Material V4A	1 2 3	**209000040000**	

Counter-current system Power-Stream – Prefab kit	Pool type	Order no.	(RG-B)
Consisting of connection fitting with integrated suction and cover made of V4A, three piezo switches with 5 m cable each, drive unit, distribution and motor support. All parts coming into contact with the pool water are made of stainless steel V4A. Prefab kit with a flow rate of 54 - 270 m³/h or 80 - 400 m³/h.			
Counter-current system Power-Stream I – Prefab kit			
2.6 kW, three-phase current, 230/400 V, 50 Hz			
Flow rate 54 - 270 m³/h	1 2 3	**209000070000**	
Counter-current system Power-Stream II – Prefab kit			
5.5 kW, three-phase current, 400/690 V, 50 Hz			
Flow rate 80 - 400 m³/h	1 2 3	**209000080000**	

Counter-current system Power-Stream – Flange kit	Pool type	Order no.	(RG-B)
Flange kit with seals and screws, material V4A	2	**209000050000**	

Counter-current system Power-Stream – Prefab pool	Pool type	Order no.	(RG-B)
Flange kit with seal, counters and screws, material V4A	3	**209000060000**	

Counter-current system Power-Stream – Wireless remote control	Order no.	(RG-B)
Wireless remote control with receiver	**209000090000**	

Counter-current system Power-Stream – HMI module	Order no.	(RG-B)
To operate and control the counter-current system outside the pool (as an alternative to the wireless remote control)	**209000180000**	

Note: *For version with sealing mass, please inquire (Power-Stream and Essence).*

Counter-current system Power-Stream

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Counter-current systems

Example for counter-current system G3 rondo					(RG-B)
Pool type	**1**	**2**	**3**	**4**	
Installation kit G3 rondo	**209 230**	**209 230**	**209 230**	**209 232**	
Prefab kit G3 rondo					
Cover: white plastic	**209 275**	**209 275**	**209 275**	**209 275**	
Flange kit	–	**209 276**	**209 277**	–	
Pump kit 2.6 kW	**209 596**	**209 596**	**209 596**	**209 596**	
Round handrail	**209 418**	**209 418**	**209 418**	**209 418**	
Switch box	**209 140**	**209 140**	**209 140**	**209 140**	

Counter-current system – installation kit		Pool type	Order no.	(RG-B)
Suction connection [DN]	65			
Pressure connection [DN]	50			
Number of jets	1			
Counter-current system G1 rondo – installation kit		1 2 3	**209 340**	
Material: plastic		5	**209 343**	
Counter-current system G3 rondo – installation kit		1 2 3	**209 230**	
Material: brass casting		5	**209 279**	
Counter-current system G3S rondo* – installation kit				
Material: brass casting		4	**209 232**	

* ***Note:*** *Core drilling and sealing material by client*

Counter-current system – prefab kit	Pool type	Order no.	(RG-B)
Consisting of jet head with air and volume control, automatic switching with pneumatic ON and OFF switch and swivel jet. All parts coming into contact with the swimming pool water are made of plastic or stainless steel 1.4571. Prefab kit (flow rate 42 – 60 m³/h), pump units not included			
Counter-current system – prefab kit G1 rondo, G3 rondo, G3S rondo			
Material of cover: white plastic	1 2 3 4 5	**209 275**	
Counter-current system – prefab kit G1 rondo, G3 rondo, G3S rondo			
Material of cover: stainless steel 1.4571	1 2 3 4 5	**209 278**	
Flange kit			
Suitable for counter-current systems G1 rondo,	2 4	**209 276**	
G3 rondo and G3S rondo	3	**209 277**	

Counter-current system
G3 rondo

Prefab kit for counter-current system
White plastic cover

Prefab kit for counter-current system
Stainless steel cover

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Pump kits for counter-current systems

Pump kit

Pump kits	Order no.	(RG-B)
For attractions, consisting of plastic centrifugal pump with connection hoses and floor bracket		
Power supply [V, Hz] 230/400, 50		
Pump kit		
Delivery rate approx. **42 m³/h at 7 mWC**,		
power input **1.9 kW**	**209 597**	
Pump kit		
Delivery rate approx. **48 m³/h at 7.5 mWC**,		
power input **2.6 kW**	**209 596**	
Pump kit		
Delivery rate approx. **60 m³/h at 11.5 mWC**,		
power input **3.6 kW**	**209 590**	

Wall bracket	Order no.	(RG-B)
Material: galvanised steel		
Wall bracket for pump kit	**209 589**	

Centrifugal pump SMK

Centrifugal pumps SMK – self-priming	Order no.	(RG-B)
For attractions		
Centrifugal pump SMK 5013/2 - 1.5		
Delivery rate approx. **42 m³/h at 5 mWC,**		
power input **1.5 kW**	**209 892**	
Centrifugal pump SMK 5013/2 - 4.0		
Delivery rate approx. **60 m³/h at 8 mWC,**		
power input **4 kW**	**209 893**	

Switch boxes for attraction pumps	Order no.	(RG-B)
Including PE converter and motor protection		
Switch box for attraction pump	**209 140**	
Switch box for attraction pump with time relay	**209 145**	
Switch box for attraction pump spaliQ:UF150	**209 155**	

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Counter-current system and accessories

Pulsating massage jet for counter-current systems	Order no.	(RG-B)
For pulsating extensive massage and back massage with 9 vibrating air/water jets. Suitable for G1 rondo, G3 rondo and G3S rondo		
Pulsating massage jet	**209 410**	

Pulsating massage jet

Pulsating massage jet with hose for counter-current systems	Order no.	(RG-B)
For pulsating massage directed at a single spot, with 1.5 m hose and 3 vibrating air/water jets. Suitable for G1 rondo, G3 rondo and G3S rondo		
Pulsating massage jet with hose	**209 411**	

Pulsating massage jet with hose

Round handrail for counter-current systems	Pool type	Order no.	(RG-B)
Material: stainless steel 1.4571			
Round handrail for G1 rondo and G3 rondo	1 4 5 2 3	**209 418**	

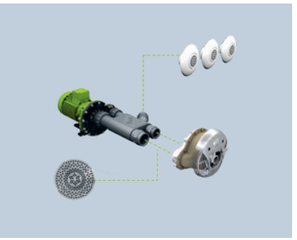
Handhold for counter-current systems	Pool type	Order no.	(RG-B)
Material: stainless steel 1.4571, suitable for counter-current systems G1 rondo, G3 rondo and G3S rondo.			
Delivered in pairs. Rail diameter 25 mm, length 250 mm			
Handhold	1	**209 413**	

Counter-current system TREVI		Order no.	(RG-B)
For easy installation in existing pools. The system features an adjustable swivel jet and a constant air bubbling bath			
Power supply [V, Hz]	230, 50		
Power input [kW]	1.7		
Delivery rate, approx. [m³/h]	40	**209 430**	

Counter-current system TREVI

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Counter-current system G3 vario

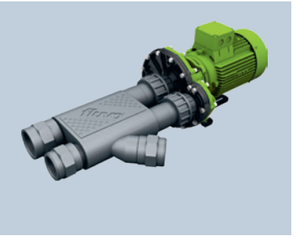


Installation example for WK-vario, counter-current system (flow rate approx. 42 - 60 m³/h) and massage jets (flow rate up to 36 m³/h)

Installation example for WK-vario, counter-current system (flow rate approx. 42 - 60 m³/h) and wide shower jet (flow rate up to 42 m³/h)

Example for counter-current system with WK-vario and massage jets or wide shower jet		**Counter-current/ massage Prefab kit, plastic**	**Counter-current/ wide shower jet Prefab kit, stainless steel** (RG-B)
Pool type		1	1
Installation kit – counter-current system	1 piece	**209 230**	**209 230**
Prefab kit – counter-current system	1 piece	**209 275**	**209 278**
Installation kit – massage jets	3 pieces	**209 420**	–
Prefab kit – massage jets	3 pieces	**209 423**	–
Switch box	1 piece	**209 140**	**209 140**
Installation kit – wide shower jet	1 piece	–	**209 711**
Prefab kit – wide shower jet	1 piece	–	**209 712**
Suction piece – installation kit DN 80	1 piece	**209 670**	**209 670**
Suction piece – prefab kit, stainless steel	1 piece	**209 690**	**209 690**
Pump kit WK-vario	1 piece	**209 503**	**209 503**
Non-return valve DN 50	1 piece	–	**202 475**

Pump kit WK-vario



Pump kit WK-vario

Pump kit WK-vario		**Order no.** (RG-B)
With hydraulic switch-over device for alternating operation of two attractions		
Power supply [V, Hz]	230/400, 50	
Pump kit WK-vario		
Delivery rate approx. **60 m³/h at 11.5 mWC,** power input **3.6 kW**		**209 503**

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Massage stations

Example for massage stations			
Number of jets	2 pieces	3 pieces	4 pieces
Flow rate [m³/h]	24	36	48
Suction piece as per DIN EN 13451	2 pieces	2 pieces	2 pieces
Pump kit (power input)	1.9 kW	1.9 kW	2.6 kW

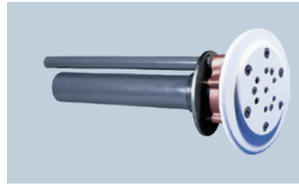
This design is a recommendation only!

Example for a 2-jet massage station, plastic version					(RG-B)
Pool type		1	2	4	
Installation kit Massage jet balance	2 pieces	**209 414**	**209 414**	**209 422**	
Installation kit Suction piece made of red brass	2 pieces	**209 670**	**209 670**	**209 670**	
Flange kit Suction piece	2 pieces	–	**209 695**	–	
Installation kit Pressure wave switch	1 piece	**210 155**	**210 155**	**210 155**	
Prefab kit Massage jet balance, plastic	2 pieces	**209 423**	**209 424**	**209 423**	
Prefab kit Suction piece	2 pieces	**209 675**	**209 675**	**209 675**	
Prefab kit Pressure wave switch	1 piece	**210 158**	**210 158**	**210 158**	
Flange kit Pressure wave switch	1 piece	–	**210 157**	–	
Pump kit 1.9 kW	1 piece	**209 597**	**209 597**	**209 597**	
Switch box	1 piece	**209 140**	**209 140**	**209 140**	

Massage station and accessories

Individual components for individual composition

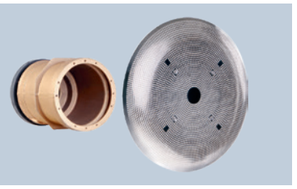
Massage jet balance	**Material**	**Pool type**	**Order no.**	(RG-B)
	Plastic	1 2	**209 414**	
		1 2	**209 420**	
Massage jet balance		4	**209 422**	
Installation kit	Brass	5	**209 421**	
	Plastic cover	1 4 5	**209 423**	
Massage jet balance		2	**209 424**	
Prefab kit	Stainless steel	1 4 5	**209 425**	
Flow rate up to 12 m³/h	1.4571 cover	2	**209 426**	
	Plastic cover	3	**209 427**	
Massage jet balance	Stainless steel			
Installation and prefab kit	1.4571 cover	3	**209 428**	



Installation and prefab kit for massage jet

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Accessories for massage stations



Installation and prefab kit for suction piece

Suction pieces as per DIN EN 13451 and DIN EN 16713, max. flow volume 50 m³/h at a flow velocity of 0.5 m/s				
	Material	**Pool type**	**Order no.**	**(RG-B)**
Suction piece				
Installation kit DN 80	Red brass	1 2 3 4	**209 670**	
Suction piece				
Installation kit DN 80 with pre-assembled				
PVC flange for sealing mass	Red brass/PVC	5	**209 671**	
	White-coated			
	cover	1 2 3 4 5	**209 675**	
Suction piece	Stainless steel			
Prefab kit	1.4571 cover	1 2 3 4 5	**209 690**	
Suction piece		2	**209 695**	
Flange kit		3	**209 700**	

Installation kit for pressure wave switch/piezo switch

Pressure wave switch (PWS)/piezo switch (piezo)				
	Material	**Pool type**	**Order no.**	**(RG-B)**
PWS/piezo – installation kit	Red brass	1 2	**210 155**	
PWS/piezo – installation kit F	Red brass	3	**210 120**	
PWS/piezo – installation kit with pre-				
assembled PVC flange for sealing mass	Red brass/PVC	5	**210 159**	
PWS	Stainl. steel 1.4571	1 2 3 5	**210 156**	
Prefab kit	White-coated			
with 5 m pneumatic hose	stainl. steel 1.4571	1 2 3 5	**210 158**	
Piezo – prefab kit	Stainl. steel 1.4571	1 2 5	**210 154**	
Piezo – prefab kit F	Stainl. steel 1.4571	3	**210 125**	
PWS/piezo – flange kit	Stainl. steel 1.4571	2	**210 157**	

Pump kit

Pump kit		**Order no.**	**(RG-B)**
For attractions, consisting of plastic centrifugal pump, connection hoses, floor bracket			
Power supply [V, Hz]	230/400, 50		
Pump kit			
Delivery rate approx. **36 m³/h at 9 mWC**,			
power input **1.9 kW**		**209 597**	
Pump kit			
Delivery rate approx. **48 m³/h at 7.5 mWC**,			
power input **2.6 kW**		**209 596**	
Pump kit			
Delivery rate approx. **48 m³/h at 14 mWC**,			
power input **3.6 kW**		**209 590**	
Pump kit			
Delivery rate approx. **80 m³/h at 9 mWC**,			
power input **4.9 kW**		**209 595**	

Wall bracket	**Order no.**	**(RG-B)**
Material: galvanised steel		
Wall bracket for pump kit	**209 589**	

Switch boxes for attraction pumps
For order numbers 209 140, 209 145, 209 150, 209 155 and 209 165, please refer to page 50

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Wide shower jet

Example for wide shower jet Cobra					**(RG-B)**
Pool type		1	2	3	
Installation kit					
Wide shower jet Cobra	1 piece	**209 711**	**209 711**	**209 711**	
Installation kit					
Suction piece	2 pieces	**209 670**	**209 670**	**209 670**	
Installation kit					
Pressure wave switch	1 piece	**210 155**	**210 155**	**210 155**	
Flange kit for vinyl-lined pools					
Suction piece	2 pieces	–	**209 695**	–	
Flange kit for prefab pools					
Suction piece	2 pieces	–	–	**209 700**	
Flange kit					
Pressure wave switch	1 piece	–	**210 157**	–	
Prefab kit					
Wide shower jet Cobra	1 piece	**209 712**	**209 712**	**209 712**	
Prefab kit					
Stainless steel suction piece	2 pieces	**209 690**	**209 690**	**209 690**	
Prefab kit					
Pressure wave switch	1 piece	**210 156**	**210 156**	**210 156**	
Pump kit 1.5 kW	1 piece	**244 043**	**244 043**	**244 043**	
Switch box	1 piece	**209 140**	**209 140**	**209 140**	

Wide shower jet Cobra

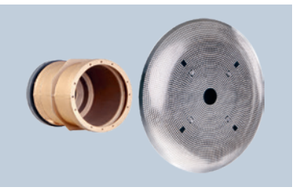
Individual components for individual composition

Wide shower jet Cobra	**Material**	**Pool type**	**Order no.**	**(RG-B)**
Installation kit	Stainl. steel 1.4571			
Connection of pressure sockets DN 50	PVC	1 2 3 4 5	**209 711**	
Prefab kit				
Width of shower head: 500 mm				
Total height: 800 mm	Stainl. steel 1.4571			
Projection: 555 mm	matt-pickled			
Flow rate up to 42 m³/h	and brushed	1 2 3 4 5	**209 712**	

Water curtain Cobra

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Accessories for wide shower jet Cobra



Installation and prefab kit for suction piece

Suction pieces as per DIN EN 13451 and DIN EN 16713, max. flow volume 50 m³/h at a flow velocity of 0.5 m/s				
	Material	**Pool type**	**Order no.**	**(RG-B)**
For attractions				
Suction piece – installation kit DN 80	Red brass	1 2 3 4	**209 670**	
Suction piece – installation kit DN 80 with pre-assembled PVC flange for sealing mass	Red brass/PVC	5	**209 671**	
	White-coated cover	1 2 3 4 5	**209 675**	
Suction piece	Stainless steel			
Prefab kit	1.4571 cover	1 2 3 4 5	**209 690**	
Suction piece		2	**209 695**	
Flange kit		3	**209 700**	

Installation kit for pressure wave switch/piezo switch

Pressure wave switch (PWS)/ Piezo switch (piezo)	**Material**	**Pool type**	**Order no.**	**(RG-B)**
PWS/piezo – installation kit	Red brass	1 2	**210 155**	
PWS/piezo – installation kit F	Red brass	3	**210 120**	
PWS/piezo – installation kit with pre-assembled PVC flange for sealing mass	Red brass/PVC	5	**210 159**	
PWS	Stainl. steel 1.4571	1 2 3 5	**210 156**	
prefab kit	White-coated			
with 5 m pneumatic hose	stainl. steel 1.4571	1 2 3 5	**210 158**	
Piezo – prefab kit	Stainl. steel 1.4571	1 2 5	**210 154**	
Piezo – prefab kit F	Stainl. steel 1.4571	3	**210 125**	
PWS/piezo – flange kit	Stainl. steel 1.4571	2	**210 157**	

Pump kit	**Order no.**	**(RG-E)**
For attractions, consisting of filter block pump with prefilter and flexible connection DN 80		
Power supply [V, Hz] 230/400, 50		
Pump kit		
Delivery rate approx. **22 m³/h at 13 mWC,** power input **1.5 kW**	**244 043**	

Switch boxes for attraction pumps	**Order no.**	**(RG-B)**
Including PE converter and motor protection		
Switch box for attraction pump with PWS	**209 140**	
Switch box with time relay for attraction pump with PWS	**209 145**	
Switch box for attraction pump with piezo	**209 150**	
Switch box for attraction pump spaliQ:UF150 with PWS	**209 155**	
Switch box for attraction pump spaliQ:UF150 with piezo	**209 165**	

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Attraction packages for air bubbling units

Attraction packages for floor bubbling units			
Pool type		1	2
Floor bubbling unit – installation kit	1 piece	**210 470**	**210 470**
Floor bubbling unit – prefab kit	1 piece	**210 465**	**210 465**
Flange kit	1 piece	–	**210 475**
Order no. (RG-B)		**210 460**	**210 480**

System example for two loungers with air bubbling elements		**Order no.**	**(RG-B)**
Pool type		1	
Air bubbling element	6 pieces	**386 800**	
Blower K05MS-1.5	1 piece	**212 010**	
Silencer	1 piece	**212 018**	
Connection elbow	1 piece	**212 016**	
Suction filter	1 piece	**212 014**	
Non-return valve DN 65	1 piece	**304 310**	
Air channel flushing	1 piece	**212 523**	
Additional control unit for air channel flushing	1 piece	**209 146**	
Installation kit – pressure wave switch	1 piece	**210 155**	
Prefab kit – pressure wave switch	1 piece	**210 156**	
Switch box	1 piece	**209 140**	
Straight wall duct 2"	2 pieces	**202 300**	

Air bubbling systems

Individual components for individual composition

Floor bubbling units	**Material**	**Pool type**	**Order no.**	**(RG-B)**
Floor bubbling unit – installation kit Consisting of bubbling socket (Ø 300 mm, connection 90°, 2") and piezo installation kit	Red brass	1 2	**210 470**	
Floor bubbling unit – installation kit with pre-assembled PVC flange for sealing mass	Red brass/PVC	5	**210 471**	
Floor bubbling unit – prefab kit Consisting of a bubbling plate (Ø 340 mm), blower (1.1 kW), non-return valve, switch box and piezo prefab kit	Stainl. steel 1.4571	1 2 5	**210 465**	
Floor bubbling unit – flange kit		2	**210 475**	

Air bubbling element	**Dimensions** (l x w x h) [mm]	**Pool type**	**Order no.**	**(RG-B)**
Can be used as air bubbling lounger or for concrete whirlpools. Required amount of air per element approx. 20 m³/h. Recommendation: 3 air bubbling elements per lounger				
Air bubbling element Material: white plastic, connection DN 25	495 x 95 x 60	1	**386 800**	

Additional special versions available.

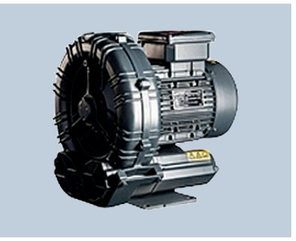
Floor bubbling unit – installation kit

Floor bubbling unit – prefab kit

Air bubbling element

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Accessories for air bubbling system



Blower K05MS-1.5

Blower K05MS-1.5		Order no.	(RG-B)
Combined with bubbling plate suitable for pool depths of up to approx. 1.30 m*, combined with air bubbling elements suitable for approx. 6 pieces*			
Material	Aluminium cast		
Capacity	130 m³/h at 0.15 bar, motor output 1.5 kW		
Power supply [V, Hz]	230/400, 50		
Connection	2" female thread		
Blower K05MS-1.5		**212 010**	

* *Take individual installation situation into account!*

Silencer

Accessories for air bubbling unit	Order no.	(RG-B)
Silencer		
Suitable for blower K05MS-1.5	**212 018**	
Connection elbow		
Suitable for blower connection and suction filter		
Material: PVC, 90° elbow, connection DN 50	**212 016**	
Suction filter		
Suitable for blower K05MS-1.5; required if the media (air) to be delivered contains solid matter or other impurities	**212 014**	
Non-return valve RSK		
For installation into the air line, including connection flange DN 65	**304 310**	
Air channel flushing		
For disinfection of air-carrying pipes	**212 523**	
Additional controller for air channel flushing		
To connect the GENO-BW-tronic control unit with the blower switch box	**209 146**	
Additional controller for air bubbling system		
To connect the spaliQ:UF150 control unit with the blower switch box	**209 170**	

Suction filter

Installation kit for pressure wave switch/piezo switch

Pressure wave switch (PWS)/ Piezo switch (piezo)	Material	Pool type	Order no.	(RG-B)
PWS/piezo – installation kit	Red brass	1 2	**210 155**	
PWS/piezo – installation kit F	Red brass	3	**210 120**	
PWS/piezo				
Installation kit with pre-assembled				
PVC flange for sealing mass	Red brass/PVC	5	**210 159**	
PWS	Stainless steel 1.4571	1 2 3 5	**210 156**	
Prefab kit	White-coated			
with 5 m pneumatic hose	stainless steel 1.4571	1 2 3 5	**210 158**	
Piezo – prefab kit	Stainless steel 1.4571	1 2 5	**210 154**	
Piezo – prefab kit F	Stainless steel 1.4571	3	**210 125**	
PWS/piezo – flange kit	Stainless steel 1.4571	2	**210 157**	

Switch boxes for attraction pumps/blower
Including PE converter and motor protection
For order numbers 209 140, 209 145, 209 150, 209 155 and 209 165, please refer to page 50

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Ladders – Models 350, 650, 450 in split design, accessories, handrails

Ladder model 350	Material	Pool type	Order no.	(RG-B)
With plastic mounting sleeves, diameter of handrail 43 mm, projection centre/centre of handrail 350 mm, width centre/centre of handrail 500 mm				
Ladder model 350, 3 treads	Stainless steel 1.4301	1 2 3 4 5	**204 300**	
Minimum pool depth 1,100 mm				
Total height 1,580 mm	Stainless steel 1.4571	1 2 3 4 5	**204 400**	
Ladder model 350, 4 treads	Stainless steel 1.4301	1 2 3 4 5	**204 301**	
Minimum pool depth 1,400 mm				
Total height 1,830 mm	Stainless steel 1.4571	1 2 3 4 5	**204 405**	

Ladder model 350

Ladder model 650	Material	Pool type	Order no.	(RG-B)
With plastic mounting sleeves, diameter of handrail 43 mm, projection centre/centre of handrail 650 mm, width centre/centre of handrail 500 mm				
Ladder model 650, 3 treads	Stainless steel 1.4301	1 2 3 4 5	**204 302**	
Minimum pool depth 1,100 mm				
Total height 1,580 mm	Stainless steel 1.4571	1 2 3 4 5	**204 410**	
Ladder model 650, 4 treads	Stainless steel 1.4301	1 2 3 4 5	**204 303**	
Minimum pool depth 1,400 mm				
Total height 1,830 mm	Stainless steel 1.4571	1 2 3 4 5	**204 415**	

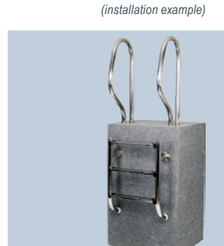
Ladder model 650

Flange fixings and ladder joints	Material	Order no.	(RG-B)
For models 350 and 650, to fasten the ladder at the pool edge.			
Flange fixings*	Stainless steel 1.4571	**204 005**	
Ladder joints fitting into mounting sleeve*	Stainless steel 1.4301	**204 006**	
Ladder joints with flange fixings	Stainless steel 1.4301	**204 007**	

* *Delivered in pairs*

Ladder joint with mounting sleeve (installation example)

Ladder model 450 in split design	Material	Pool type	Order no.	(RG-B)
With flange fixing for concrete pools, diameter of handrail 43 mm, projection centre/centre of handrail 450 mm, width centre/centre of handrail 500 mm				
Ladder model 450 in split design, 3 treads				
Minimum pool depth 1,100 mm				
Total height 1,760 mm	Stainless steel 1.4571	1 2 4	**204 420**	
Ladder model 450 in split design, 4 treads				
Minimum pool depth 1,400 mm				
Total height 2,010 mm	Stainless steel 1.4571	1 2 4	**204 425**	
Foil counter flanges for model 450 in split design, delivered in pairs	Stainless steel 1.4571	2	**204 309**	



Ladder model 450 in split design

Handrail	Material	Pool type	Order no.	(RG-B)
Made of stainless steel 1.4571, polished, diameter of handrail 40 mm, with fixing brackets for wall mounting				
Handrail, length 1,000 mm	Stainless steel 1.4571	1	**204 200**	
Handrail, length 2,000 mm	Stainless steel 1.4571	1	**204 201**	

Note: *The stainless steel's resistance can only be guaranteed if it is cleaned at regular intervals and the following limit values are not exceeded (not even for a short time):*
For stainless steel 1.4301 (V2A): Chloride ions 150 mg/l and pH value 7.0 to 7.8
For stainless steel 1.4571 (V4A): Chloride ions 400 mg/l and pH value 6.8 to 8.2

1 Tiled concrete pool 2 Vinyl-lined pool 3 Prefab pool 4 Concrete pool, retrofitting 5 Sealing mass (also available with optional press flange)

Disinfection

TIP

Even if an automatic measuring and control system is used, a manual control measurement should be carried out once a week.

Manual and automatic processes

Despite an optimum flow through the pool and an ideal filtration, dosing care products is indispensable. In case of manual dosing, tablets or granulate products are added to the pool water by means of the skimmer or a dosing float. An automatic measuring and control system combined with dosing systems or a dosing unit is much more convenient, however, as these units monitor and dose the pool agents as required.

Processes	Disinfection packages
Chlorine Due to its high efficiency, chlorine is probably the most commonly used disinfectant. It can be measured without problems and reacts particularly quickly to the number of bathers in the pool. **Bromine** This product's disinfecting effect is similar to that of chlorine, with the particular advantage that the combined portion does not generate the odour typical for indoor pools. **Active oxygen** This "gentle disinfection" can be used in tiled indoor pools with a low number of bathers. **UV systems** By means of UV lamps, the disinfecting effect of sunlight is recreated. In order to achieve a "depot effect" in the pool, dosing chlorine, bromine or active oxygen is required.	**1 pH/chlorine – manual** The agents are added manually. Quickly soluble chlorine is used for disinfection. In order to lower the pH value, the granulate GENO-minus is applied. **2 pH/chlorine – demand-controlled – dosing by means of hose dosing pumps** By means of the automatic measuring and control system GENO-CPR-tronic 02 family, the pH and redox (chlorine) values are continuously measured and controlled according to demand. Dosing is done by means of hose dosing pumps. **3 pH/chlorine – demand-controlled – dosing by means of diaphragm pumps** As described in 2), dosing is done by means of selfventing diaphragm pumps, however. **4 pH/bromine – demand-controlled – dosing by means of a hose dosing pump** By means of the automatic measuring and control system GENO-CPR-tronic 02 family, the pH and redox values are continuously measured and controlled according to demand. The pH control agent is dosed by means of a hose dosing pump. The disinfection product bromine is added via a dosing unit. **5 pH/bromine + UV – demand-controlled – dosing by means of a diaphragm pump** By means of the automatic measuring and control system GENO-CPR-tronic 02 family, the pH and redox values are continuously measured and controlled according to demand. The pH control agent is dosed by means of a self-venting diaphragm pump. The disinfection product bromine is dosed via a dosing unit. A UV system is a supporting measure, which reduces the use of chemicals to a minimum. **6 pH/active oxygen + UV – time-controlled – dosing by means of a diaphragm pump** In case of this "gentle disinfection", active oxygen is added to the pool water on a time-controlled basis. UV disinfection represents an additional means of safety. The pH value is continuously measured and controlled by means of the control unit GENO-CPR-tronic 02 family. The dosing pump for GENO-aktiv is controlled by means of a time program in the GENO-BW-tronic.

Disinfection packages

Measuring method Disinfection process	Manual Chlorine	Automatic Chlorine	Chlorine	Bromine	Bromine + UV	Active oxygen + UV
Disinfection package	**1** **manual**	**2** **basis comfort**	**3** **de luxe comfort**	**4** **basis control**	**5** **de luxe control**	**6** **de luxe tronic**
Automatic measuring and control system spaliQ Professional		1	1	1	1	1
Connecting kit for filter systems GENO-mat and spaliQ:UF150		1	1	1	1	1
Dosing system GENO-Schlauflex- Cl 1.5 i		1				
pH 1.5 i		1		1		
Dosing system GENODOS SB 1/40			1		1	1
Dosing system GENODOS SBC 1/40			1			
Dosing system GENODOS SBA 6/40						1
Mounting plate for dosing pumps		1	1	1	1	1
GENO-UV-75					1	1
Connection kit for GENO-UV-75					1	1
Flushing kit for UV systems					1	1
Dosing unit GENO-mat comfort				1	1	
Pressure maintaining valve DHV 2			2		1	2
Dosing float	1					
GENO-Chlor S, 5 kg	1					
GENO-Chlor A, 25 kg		1	1			
GENO-aktiv 12, 21 kg						1
GENO-Brom tablets, 5 kg				1	1	
GENO-minus, 5 kg	1					
GENO-minus N, 22 kg		1	1	1	1	1
GENO-clean CP, 10 x 1 l					1	1
Chemical spill tray		2	2	1	1	2
Test kit for hydrogen peroxide (GENO-aktiv) and pH value						1
Test kit for bromine, chlorine and pH value	1	1	1	1	1	
Order no. (RG-B)	**213 010**	**213000010000**	**213000020000**	**213000030000**	**213000040000**	**213000050000**

Note: *The connecting kit for filter systems GENO-mat and spaliQ:UF150 (order no. 203000040000) is included in the disinfection package.*

Automatic measuring and control system and accessories

Individual components for individual composition

spaliQ Professional

Hygro thermo transmitter

Optional module for chemical refill and empty alarm

Automatic measuring and control system spaliQ Professional		Order no.	(RG-B)
For continuous measuring and control of redox value (with conversion to disinfection) and pH value, completely pre-assembled and electrically wired, temperature measurement/compensation and flow monitoring			
4 analogue power outputs (mA)	0/4 - 20		
Interfaces	1 RS 485 for interconnection with GENO-BW-tronic		
Interfaces	1 RS 485 for optional module		
Interfaces	1 LAN for interconnection into the customer's network		
Interfaces	1 Integrated web server for operation via a web browser		
Interfaces	1 VNC server for external operation		
Interfaces	1 RS 485 Modbus RTU and 1 TCP/IP (LAN/RJ45) for communication with building automation		
Connectivity	Cloud connection via Grünbeck's myProduct app		
Dimensions of mounting plate (w x h) [mm]	397 x 825		
Power supply [V, Hz]	230, 50 - 60		
Measuring range (pH)	0 - 14		
Measuring range (redox) [mV]	0 - 1,300	**203000010000**	

Flow controller	Order no.	(RG-B)
To monitor the necessary flow in the pool water circuit (filtrate line) to release dosing of the measuring and control system spaliQ Professional		
Flow controller	**100025120000**	

Hygro thermo transmitter	Order no.	(RG-B)
To measure the relative humidity of the air as well as the room temperature. Display at the automatic measuring and control system spaliQ Professional.		
Hygro thermo transmitter	**203 535**	

Optional module for chemical refill and empty alarm	Order no.	(RG-B)
Pre-alarm at the automatic measuring and control system spaliQ Professional to indicate the required refill of chemicals		
Optional module for chemical refill and empty alarm	**203 555**	

Connecting kit for filter system GENO-mat, spaliQ:UF150	Order no.	(RG-B)
For new installations in combination with a filter system of the GENO-mat F series or BWK series as well as with a spaliQ:UF150.		
Connecting kit for filter systems GENO-mat and spaliQ:UF150	**203000040000**	

Dosing systems, pressure maintaining valve

Dosing system GENO-Schlauflex-Cl 1.5 i and -pH 1.5 i		Suitable for	Order no.	(RG-B)
Hose pump, in particular for use in private pools. Reliable suction and dosing, even of outgassing media; low-noise operation. Scope of supply: suction lance, 5 m PTFE dosing line and dosing group				
Power supply [V, Hz, W]	230, 50 - 60, 3			
Housing	PPE			
Dosing system GENO-Schlauflex-Cl 1.5 i				
Dosing group	Lv-K			
Dosing capacity [ml/h at 1.5 bar] (pre-set to 800 ml/h)	60 - 3000	GENO-Chlor A	**203 586**	
Dosing system GENO-Schlauflex-Cl Duo 1.5 i				
To supply two dosing circuits from one canister				
Dosing group	Lv-K			
Number of hose dosing pumps	2			
Dosing capacity [ml/h at 1.5 bar] (pre-set to 800 ml/h)	60 - 3000	GENO-Chlor A	**203 596**	
Dosing system GENO-Schlauflex-pH 1.5 i				
Dosing group	2.71			
Dosing capacity [ml/h at 1.5 bar] (pre-set to 1600 ml/h)	60 - 3000	GENO-minus N GENO-plus N	**203 591**	

Dosing systems GENODOS SB 1/40, SBC 1/40 and SBA 6/40		Suitable for	Order no.	(RG-B)
Consisting of GENODOS pump, GENODOS suction lance, 5 m PTFE dosing line and dosing group. Self-priming diaphragm pump automatically deaerating against pressure to dose liquids. Equipped with a voltage-free fault signal output, pulse division and multiplication. With fixing bracket for wall or floor mounting.				
Max. dosing pressure [bar]	10			
Protection [IP]	54			
Power supply [V, Hz, W]	230, 50, 16			
Dosing system GENODOS SB 1/40				
Dosing group	2.71			
Dosing pump	GP-1/40	GENO-minus N		
Max. dosing capacity	0.9 l/h	GENO-plus N	**212 475**	
Dosing system GENODOS SBC 1/40				
Dosing group	T			
Dosing pump	GP-1/40			
Max. dosing capacity	0.9 l/h	GENO-Chlor A	**212 490**	
Dosing system GENODOS SBC 1/40 Duo				
To supply two dosing circuits from one canister				
Dosing group	T			
Dosing pump	GP-1/40			
Number of dosing pumps	2			
Max. dosing capacity	0.9 l/h	GENO-Chlor A	**212 445**	
Dosing system GENODOS SBA 6/40				
Dosing group	2.71			
Dosing pump	GP-6/40			
Max. dosing capacity	5.5 l/h	GENO-aktiv	**212 485**	

Pressure maintaining valve DHV 2	Order no.	(RG-B)
Factory-set to 2 bar system counter-pressure; required for fluctuating pressures or if the dosing system is located above pool level		
Pressure maintaining valve DHV 2	**203 173**	

Dosing systems GENODOS SB installed on mounting plate

Mounting plate, chemical spill tray, dosing unit, UV system and accessories

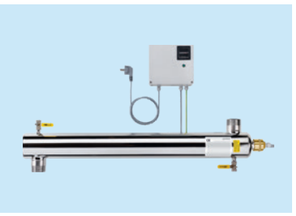
Chemical spill tray

Mounting plate for dosing pumps	Dimensions (w x h) [mm]	Order no.	(RG-B)
To secure a total of 2 dosing pumps. Material: white PVC including fastening material			
Mounting plate for hose dosing pumps	300 x 260	**203 576**	
Mounting plate for GENODOS dosing pumps	397 x 270	**203 520**	

Chemical spill tray	Dimensions (l x w x h) [mm]	Order no.	(RG-B)
For GENO-Chlor A, GENO-minus N, GENO-aktiv and GENO-plus N			
Chemical spill tray	400 x 300 x 319	**210 560**	

Dosing unit GENO-mat Standard

Dosing unit		Order no.	(RG-B)
For dosing swimming pool agents such as slowly dissolving bromine or chlorine D. The dosing unit is completely pre-assembled on a mounting plate, including flexible connection line (6 m) as well as shut-off and dosing valve. Transparent tank to monitor the filling volume.			
Connection of feed [DN]	15		
Connection of return [DN]	8		
Dimensions of mounting plate (w x h) [mm]	300 x 600		
Filling volume [kg] approx.	3		
Dosing unit GENO-mat Standard			
Dosing unit as described above		**203 122**	
Dosing unit GENO-mat Comfort			
Dosing unit as described above, however, with motor valve		**203 123**	



GENO-UV-75

GENO-UV-75		Order no.	RG-
For the disinfection of swimming pool water. Consisting of electropolished stainless steel pressure pipe, UV lamp, removable protective quartz pipe, 2 flushing/draining valves for system cleaning, flow distribution device, control unit with operating hour meter and ballast.			
Power supply [V, Hz]	230, 50		
Max. service life of lamp, approx. [h]	9,000		
Nominal connection diameter	2" male thread		
Total length with screw connection [mm]	1,024		
Space required for lamp replacement [mm]	950		
Number of UV lamps (pcs)	1		
Wattage [W]	75		
GENO-UV-75		**523 215**	B
Wall bracket for GENO-UV-75		**523 217**	B
Connection kit for GENO-UV-75			
Consisting of 2 stainless steel pipes DN 50, 0.5 m each (female thread 2", flange)		**335 850**	B
Flushing kit for UV disinfection systems			
Consisting of a flushing pump, hose connections, hose clamps, flushing tank, 3 m flushing hose		**520 020**	E

For chlorine membrane electrolysis system, please inquire.

Care Products

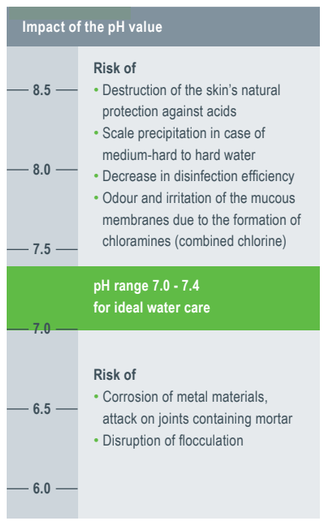
Checking and optimising the water quality

Check the water parameters at least once a week, even if an automatic measuring and control system is used.

To do so, simple pool test kits are available:
The measured values for pH and the disinfectant are indicated on a colour scale.

Digital test devices such as **MD 4 in 1** or **Scuba II** are much more convenient and accurate. The visual colour comparison, which could result in inexact readings, is superfluous. The water sample is tested according to the photometric principle and the result is indicated in the digital display of the device.

Maintaining the pH value is essential for the disinfection to be effective.



TIP

All care products should be stored in a cool and dry place!

Test kits and accessories

Test kit for bromine, chlorine and pH value

Test device MD 4 in 1

Test device Scuba II

Test kits and indicators	Measuring range	Order no.	(RG-B)
To determine the values according to the DPD method			
	Br 0.22 - 13.2 mg/l		
Test kit	Cl_2 0.1 - 6.0 mg/l		
for bromine, chlorine and pH value	pH value 6.8 - 8.2	**211 112**	
Test kit	GENO-aktiv 5 - 50 mg/l		
for hydrogen peroxide (GENO-aktiv) and pH value	pH value 6.8 - 8.2	**170 098**	
Indicator for chlorine and bromine value			
100 tablets		**211 210**	
Indicator for pH value			
100 tablets		**211 211**	
Indicator for hydrogen peroxide value (GENO-aktiv)			
200 tablets (for 100 measurements)		**170 189**	

Test device MD 4 in 1	Measuring range	Order no.	(RG-B)
Photometer to determine the parameters indicated below			
Chlorine (free and total) [mg/l]	0.01 - 6.0		
pH value	6.5 - 8.4		
Cyanuric acid [mg/l]	0 - 160		
Acid capacity (Ks 4.3); [mmol/l]	0.1 - 4.0		
Test device MD 4 in 1		**211 230**	

Digital test device Scuba II	Measuring range	Order no.	(RG-B)
Electronic pool tester for the sophisticated operator of a swimming pool or whirlpool.			
To determine the following parameters:			
Chlorine (free and total) [mg/l]	0.1 - 6.0		
pH value	6.5 - 8.4		
Cyanuric acid [mg/l]	1 - 160		
Acid capacity/alkalinity [mg/l]	0 - 300 $CaCO_3$		
Bromine [mg/l]	0.2 - 13.5		
Digital test device Scuba II		**211 235**	

Indicators for test devices MD 4 in 1 and Scuba II	Order no.	(RG-B)
Indicator DPD 1 (100 tablets) (free chlorine or bromine)	**211 213**	
Indicator DPD 3 (100 tablets) (total chlorine)	**211411000000**	
Indicator phenol red (100 tablets) (pH)	**211 604**	
Indicator cyanuric acid (100 tablets)	**211 605**	
Indicator acid capacity (100 tablets)	**211 603**	

Accessories

Pool thermometer	Indication	Order no.	(RG-B)
Self-floating			
Pool thermometer	vertical	**211 301**	
Pool thermometer Ø 180 mm	horizontal	**211 305**	

Dosing float	Order no.	(RG-B)
For GENO-Chlor tablets or GENO-Brom tablets		
Dosing float	**203 100**	

Safety package for pool water	Order no.	(RG-B)
Protective equipment for the handling of swimming pool care products, consisting of:		
Warning, mandatory, prohibition and information signs, adhesive labels for chemicals,		
face mask, special gloves and pneumatic eye wash bottle		
Safety package for pool water	**210 880**	

Horizontal thermometer

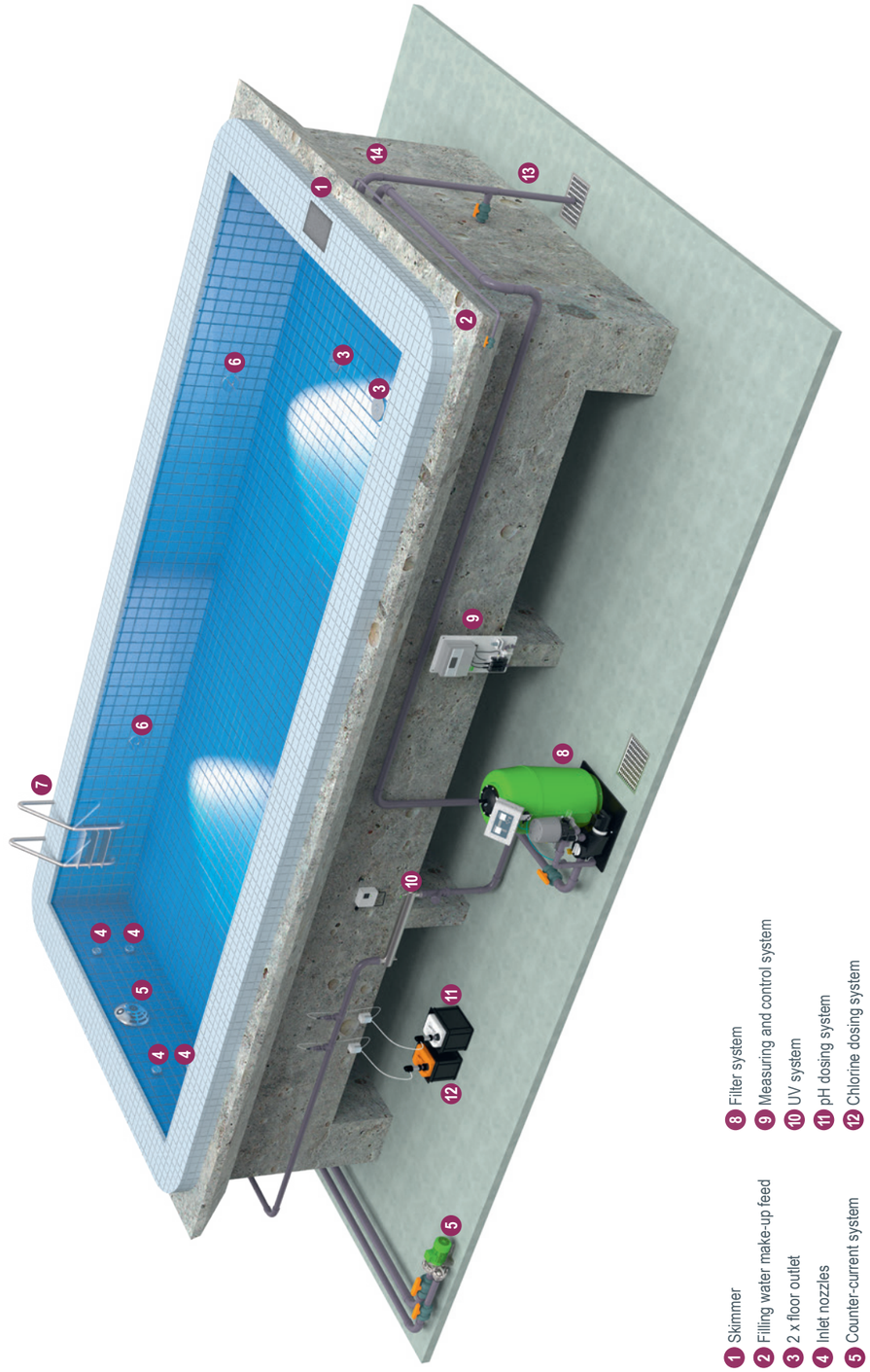
Dosing float

The ABC of swimming pool care

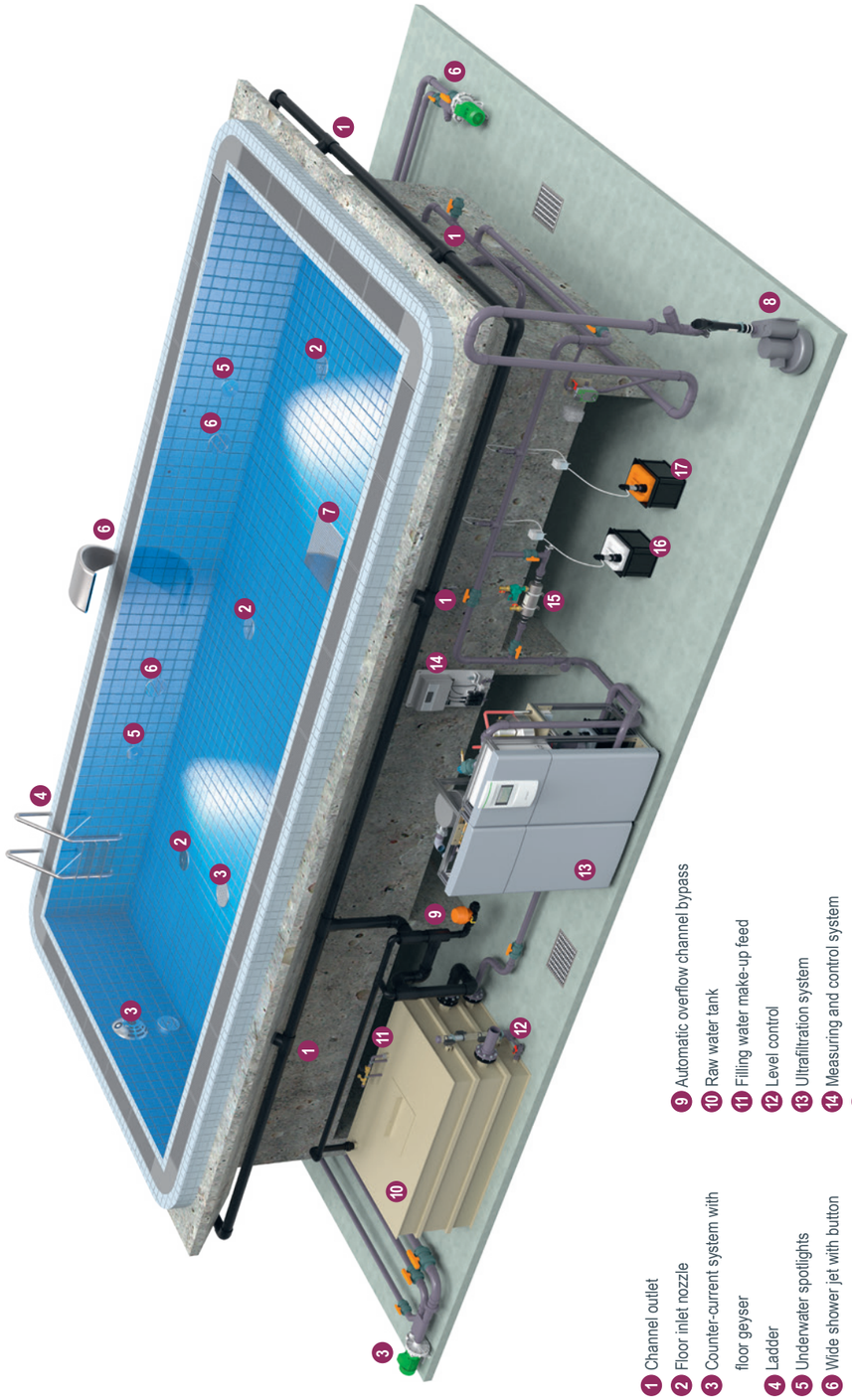
Product	Application	Consistency	Dosing	Packing unit	Order no.	(RG-B)
A pH regulation						
				1 can of 1.5 kg	**210 056**	
GENO-minus	pH decrease	Granulate	Dissolved, into pool	1 bucket of 5 kg	**210 009**	
				1 canister of 22 kg		
GENO-minus N	pH decrease	Liquid	Dosing system	(20 litres)	**210 013**	
				1 can of 1 kg	**210 058**	
GENO-plus	pH increase	Granulate	Dissolved, into pool	1 bucket of 5 kg	**210 010**	
				1 canister of 22 kg		
GENO-plus N	pH increase	Liquid	Dosing system	(20 litres)	**210 018**	
B Disinfection						
Chlorine						
	Continuous		Dosing float,	1 can of 1 kg	**210052000100**	
GENO-Chlor D	disinfection	Tablets	dosing unit	1 bucket of 5 kg	**210002000100**	
				1 can of 1 kg	**210 050**	
GENO-Chlor S	Shock disinfection	Tablets	Dosing float	1 bucket of 5 kg	**210 001**	
	Contin. + shock		Dissolved, into pool	1 can of 1 kg	**210 054**	
GENO-Chlor G	disinfection	Granulate	or dosing system	1 bucket of 5 kg	**210 003**	
	Continuous			1 canister of 25 kg		
GENO-Chlor A	disinfection	Liquid	Dosing system	(20 litres)	**210 012**	
Bromine						
	Continuous		Dosing unit,			
GENO-Brom	disinfection	Tablets	dosing float	1 bucket of 5 kg	**210 011**	
Active oxygen						
	Continuous			1 canister of 22 kg		
GENO-aktiv	disinfection	Liquid	Dosing system	(20 litres)	**210 025**	
	Continuous			1 canister of 21 kg		
GENO-aktiv 12	disinfection	Liquid	Dosing system	(20 litres)	**210 076**	
C Algae control						
	Prevention of		Directly into pool,	1 bottle of 1 litre	**210 080**	
GENO-gin B	algae growth	Liquid	dosing system	1 canister of 3 litres	**210 020**	
X Flocculation						
			Skimmer,	1 box containing		
	Elimination		pump strainer,	8 cartridges x		
GENO-flock K	of turbidity	Cartridges	dosing float	125 g each	**210 035**	
Y Cleaning						
				1 canister of 10 kg		
GENO-clean S	Scale deposits	Liquid	NOT into pool!	(9.4 litres)	**210 030**	
Z Specialities						
GENO-stabil	pH stabilisation	Granulate	Dissolved, into pool	1 can of 1 kg	**210 040**	
GENO-poolrein	Winterising	Liquid	Directly into pool	1 canister of 3 litres	**210 019**	
	Cleaning of			10 bottles of		
GENO-clean CP	UV system	Liquid	Flushing kit	1 litre each	**170 022**	
	Removal of metal ions and scale					
Metall-magic	deposits	Liquid	Directly into pool	1 bottle of 1 litre	**210 075**	

Note: *For the safe handling of our care products, we recommend our safety package for pool water (refer to order no. 210 880 on page 61).*

3D illustration of pool – Example: skimmer system



3D illustration of pool – Example: overflow channel system



1 Channel outlet
2 Floor inlet nozzle
3 Counter-current system with floor geyser
4 Ladder
5 Underwater spotlights
6 Wide shower jet with button and 2 suction pieces
7 Air bubbling plate
8 Air bubble blower
9 Automatic overflow channel bypass
10 Raw water tank
11 Filling water make-up feed
12 Level control
13 Ultrafiltration system
14 Measuring and control system
15 Heat exchanger
16 pH dosing system
17 Chlorine dosing system

Checklist for Quotations

1. Pool Type

◯ **Indoor pool** ◯ **Outdoor pool**

2. Pool Size

Dimensions L: _____ m W: _____ m D: _____ m

Surface: _____ m² Volume: _____ m³

3. Number of Bathers

◯ **Low number of bathers** ◯ **High number of bathers** Number of people using the pool daily _____

4. Pool Material

◯ **Tiled concrete** ◯ **Vinyl-lined concrete** ◯ **Concrete with sealing mass**

◯ **Prefab pool, material:** _____

5. Water Flow

◯ **Pool with skimmer**

◯ **Pool with overflow channel**

◯ Pool is floor-mounted. Inlet system must be embedded in concrete in the pool bottom.

◯ Pool is spandrel-braced.

6. Channel Type

◯ **Flat Finnish channel** ◯ **Deep Finnish channel** ◯ **Small Wiesbaden channel** ◯ **Large Wiesbaden channel** ◯ **Others**

7. Filter System

◯ **Sand filter** ◯ **Multi-layer filter** ◯ **Ultrafiltration technology**

◯ **Manual version** ◯ **Automatic version** ◯ **Others**

8. Water Heating

◯ **Warm water heating system**

◯ Existing heating flow Temp.: _____ °C

◯ Existing heating pressure bar: _____

◯ Maximum pool temperature desired: _____ °C

◯ For outdoor pool – desired period of use: from month of _____ until month of _____

◯ **Electrical heating**

◯ **Solar control as sole heating**

◯ As main heating ◯ As additional heating ◯ Adsorber ◯ Collector

◯ **Heat pump**

◯ Existing heating flow Temp.: _____ °C

Checklist for Quotations

9. Water Treatment

- ◯ **Manual** (easy handling – dosing of solid products directly into the pool)

- ◯ **Automatic measuring, control and dosing system**
  - ◯ For chlorine and pH value
  - ◯ For bromine and pH value
  - ◯ For bromine and pH value in combination with UV disinfection
  - ◯ For active oxygen and pH value in combination with UV disinfection

10. Attractions and Accessories

- ◯ **Counter-current system**
  - ◯ Single-flow — Number desired: _____
  - ◯ Double-flow — Number desired: _____
  - ◯ Double-flow with floor jet — Number desired: _____
  - ◯ Double-flow with massage jets — Number desired: _____ (4 max.)

- ◯ **Floor bubbling unit**
- ◯ **Wide shower jet**
- ◯ **Bubbling seat unit** — Number of seats: _____
- ◯ **Massage station** — Number of jets desired: _____ (4 jets max.)

- ◯ **Underwater spotlights to illuminate the pool**
  - Version: ◯ White plastic ◯ Stainless steel
  - Light source: ◯ Standard ◯ Cool white LED ◯ LED RGB-W

- ◯ **Mini underwater spotlights** (to illuminate stairs, niches, etc.)
  - Light source: ◯ Standard ◯ Cool white LED ◯ LED RGB-W

- ◯ **Ladder**
- ◯ **Handrails**

11. Details on Mechanical Room

Dimensions: L: _____ m W: _____ m H: _____ m

- ◯ Mechanical room **below** the water level of the pool
- ◯ Mechanical room **above** the water level of the pool

Note: This installation situation poses a problem. At least the pump should be installed below the water level.

Indication of difference in level: _____ m

Distance swimming pool/mechanical room: _____ m

YOUR LOCAL
WATER
EXPERTS!

Company profile

Grünbeck
Wasseraufbereitung GmbH
Josef-Grünbeck-Str. 1
89420 Hoechstaedt
GERMANY

General manager
Dr. Günter Stoll

Staff
Approximately 700

Sales organisation
Subsidiaries and authorised representations in Germany, representations in all EU member countries as well as associated partners world-wide

Certifications
DIN EN ISO 9001, DIN EN ISO 14001 and SCC[P] by TÜV Management Service, OHRIS

Product certifications
DVGW, SVGW, ACS, EAC

Approvals
for welding, specialised welding company according to DIN EN ISO 3834-3. Manufacturing of pressure equipment according to the Pressure Equipment Directive 2014/68/EU as per AD 2000 data sheet HPO and DIN EN 13480. Manufacturer of steel constructions according to DIN EN 1090. WEEE reg. no.: DE 77585882

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QUALITY MADE IN GERMANY

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