

2026



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Water Treatment for Private Swimming Pools

Catalogue 2026

grünbeck



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Grünbeck water treatment – 75 years of experience

For 75 years now, Grünbeck AG 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 Hoechstädt/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 2026 · Edition 1.0

Valid from January 1, 2026. 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

Field of Application	Products	Page
Filter Systems	Ultrafiltration system spaliQ:UF200	4 – 5
	GENO-mat F 500 F 500, AC Eco F 600 F 600, AC Eco GENO-mat F 610 F 610, AC Eco GENO-mat F 800, AC Eco	6 – 12
	Filter material	13
	Circulation pumps for filter systems	14
	Cartridge filter kompakt SP C-5, fittings	15
Control Units	Control units	16 – 17
Built-in Pool Parts	Skimmer system	18 – 22
	Overflow channel system	23 – 24
Raw Water Tanks	Raw water tanks and accessories	25 – 27
Heat Exchangers	Tube bundle heat exchangers with/without pump – stainless steel and titanium	28 – 29
	Plate heat exchangers, electrical heat exchangers, control units and accessories	30 – 31
Pool Cleaning Devices	Pool cleaning devices and accessories – filter-dependent	32 – 33
	Pool cleaning devices – filter-independent	34
Attractions	Underwater spotlights and accessories	35 – 40
	Counter-current systems Essence, Visa, Power-Stream, G1 rondo, G3 rondo, G3S rondo, pump kits, TREVI, G3 Vario and accessories	41 – 46
	Massage stations and accessories	47 – 48
	Wide shower jet and accessories	49 – 50
	Air bubbling units and accessories	51 – 52
	Ladders, accessories, handrails	53
Disinfection	Disinfection packages	54 – 55
	Automatic measuring and control system and accessories	56
	Dosing systems	57
	Mounting plates, chemical spill tray, dosing unit, UV system and accessories	58
Care Products	Test kits and accessories	59 – 61
	The ABC of swimming pool care	62
3D Pool Illustrations		63 – 64
Checklist for Quotations		65 – 66
Sales Offices and Representations		67

Filter Systems	
Control Units	
Built-in Pool Parts	
Raw Water Tanks	
Heat Exchangers	
Pool Cleaning Devices	
Attractions	
Disinfection	
Care Products	
3D Pool Illustrations	
Checklist for Quotations	
Sales Offices and Representations	



FILTER SYSTEM

Ultrafiltration

TIP

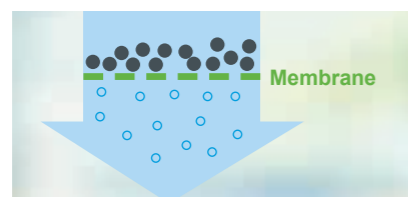
Innovative technology for private pools by means of ultrafiltration system spaliQ:UF200. Effective filter technology for pure swimming pleasures.

Selection criteria for ultrafiltration filter system

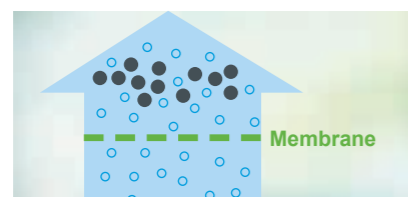
Functional description of the spaliQ:UF200's membrane technology



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

- Your advantages at a glance:**
- Membrane cut-off limit of $\leq 0.02 \mu\text{m}$
 - 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)

Ultrafiltration and accessories

Ultrafiltration system in modular design



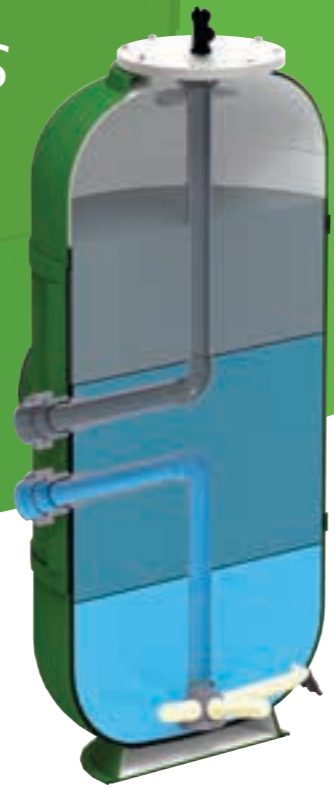
Ultrafiltration system spaliQ:UF200 for swimming pools and whirlpools

Ultrafiltration system spaliQ:UF200	Order no.	(RG-E)
Filter capacity [m³/h]	20	
Backwash capacity of ultrafiltration module [m³/h]	18	
Backwash water volume of filter system per backwash [l]	900	
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]	1 x 100/1 x 125	
Power supply [V, Hz]	230/400, 50 - 60	
Connected load [kW]	approx. 7.5	
Fuse protection [A]	max. 32	
spaliQ:UF200 with housing	247200000000	
spaliQ:UF200 without housing	247210000000	

Accessories for spaliQ:UF200	Order no.	(RG-E)
CEB acid dosing system	100031650000	
CEB base dosing system	100031660000	
CIP adapter flange DN50 Storz B	100021120000	
CIP adapter flange DN50 union nut DN32	100021130000	
Attraction/light module spaliQ:UF200	247215000000	

FILTER SYSTEM

Single-/Multi-layer Filters



TIP

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

AFM has a number of advantages compared to quartz sand:

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

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

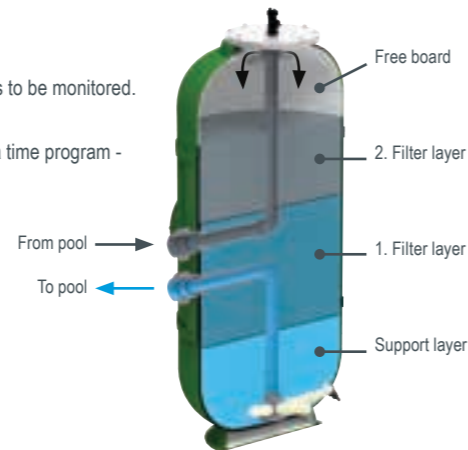
The filter operating time should be divided into 2 - 3 blocks before and during the bathing time.

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)



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 [m ³ /h at mWC]	8.5/8
Max. filter capacity [m ³ /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)

	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
Components					
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-S)
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	

Semi-automatic filter systems with heat exchanger	Power supply	Order no.	(RG-S)
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	

Fully automatic filter systems	Power supply	Order no.	(RG-S)
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	

Fully automatic filter systems with heat exchanger	Power supply	Order no.	(RG-S)
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	

* 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 500 H



GENO-mat F 500 HK, AC



GENO-mat F 500 A



GENO-mat F 500 AK

**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 [m ³ /h at mWC]	≤ 24/8
Max. filter capacity [m ³ /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-S)
GENO-mat F 500 A, AC Eco	230 V, 50 Hz	240 490	

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



GENO-mat F 500 A, AC Eco



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 [m ³ /h at mWC]	14/8
Max. filter capacity [m ³ /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-S)
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	

Semi-automatic filter systems with heat exchanger	Power supply	Order no.	(RG-S)
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	

Fully automatic filter systems	Power supply	Order no.	(RG-S)
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	

Fully automatic filter systems with heat exchanger	Power supply	Order no.	(RG-S)
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 H



GENO-mat F 600 HK, AC



GENO-mat F 600 A



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.

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

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



GENO-mat F 600 A, AC Eco



GENO-mat F 600 AK, AC Eco



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.

Manual filter systems	Power supply	Order no.	(RG-S)
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	

Fully automatic filter systems	Power supply	Order no.	(RG-S)
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	



GENO-mat F 610 H



GENO-mat F 610 A

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.

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



GENO-mat F 610 A, AC Eco

**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 [m ³ /h at mWC]	≤ 34/8
Max. filter capacity [m ³ /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-S)
GENO-mat F 800 H, AC Eco	230 V, 50 Hz	242 455	

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



GENO-mat F 800 H, AC Eco



GENO-mat F 800 A, AC Eco

Filter material for filter systems

	Quartz sand Grain size 0.4 - 0.8	Quartz sand Grain size 1.0 - 2.0	Quartz sand Grain size 3.15 - 5.6	Hydro-anthracite N Grain size 1.4 - 2.5	AFM Grain size 0.4 - 0.8	AFM Grain size 0.7 - 2.0	Order no.	(RG-S)
Filter material – Quantity delivered	kg	kg	kg	l	kg	kg		
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 Hoechststadt/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-S)
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-S)
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-S)
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-S)
	20 µm	212 416

Fittings	Connection [DN]	Order no. (RG-S)
Conical non-return valve	40	202 470
For installation into pressure pipe (riser pipe) downstream of the filter system, required especially for pools with overflow channel	50	202 475
	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
Shut-off valve R		
With locking handle, including counter flanges, flange sleeves and screws	50	304 510
	65	304 511
Shut-off valve F		
With fine-tuning, including counter flanges, flange sleeves and screws	50	304 520
	65	304 521
Ball valve S6	40	852 70 836
Material: PVC/EPDM	50	852 70 837
2-way ball valve S6 M1		
With electrical actuator, power supply 230 V, AC	40	304000110000
Material: PVC/EPDM	50	304000120000



Automatic overflow channel bypass



Shut-off valve F



STEUERUNGEN

TIP

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

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

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-S)
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-S)
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-S)
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-S)
To switch AC pumps on and off, max. 16 A		
Power supply [V, Hz]	230, 50	208000010000

BUILT-IN POOL PARTS



TIP

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.

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

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-S)
Dimensions (l x w x h) [mm]	395 x 320 x 371		
Connection [DN]	40		
Min./max. suction capacity [m ³ /h]	6/10	1 2 3 4	200 789

Accessories for ABS skimmer	Pool type	Order no.	(RG-S)
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Mechanical ABS water level controller			
Fresh water connection 1/2" 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-S)
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Material	Stainless steel 1.4571		
Dimensions (l x w x h) [mm]	240 x 335 x 350		
Connection [DN]	40		
Min./max. suction capacity [m ³ /h]	6/10		

Skimmer basis 200	1 2 3 4	200 730	
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Skimmer basis 200			
With pre-assembled PVC flange for sealing mass	5	200 757	

Accessories for skimmer basis 200	Pool type	Order no.	(RG-S)
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Mechanical water level controller basis 200			
Fresh water connection 3/8" male thread	1 2 3 4 5	200 770	

Electric water level controller for skimmer			
Including solenoid valve 1/2", 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	
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Closing plug L	1 2 3 4 5	201 301	
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Connection piece for suction hose	1 2 3 4 5	206 202	
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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-S)
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	Pool type	Order no.	(RG-S)
	1 2 3 4	200 720	

Skimmer de luxe 500	Pool type	Order no.	(RG-S)
With pre-assembled PVC flange for sealing mass	5	200 756	

Accessories for skimmer de luxe 500		Pool type	Order no.	(RG-S)
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Electric water level controller for skimmer		Pool type	Order no.	(RG-S)
Including solenoid valve 1/2", level control 230 V as well as safety shut-off		1 2 3 4 5	200 695	

Closing plug E		Pool type	Order no.	(RG-S)
To completely drain the pool via the circulation pump		1 2 3 4 5	201 300	

Closing plug L		Pool type	Order no.	(RG-S)
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		Pool type	Order no.	(RG-S)
		1 2 3 4 5	206 202	

Tile cover de luxe 500		Pool type	Order no.	(RG-S)
Cover width 25 mm, material: stainless steel 1.4571		1 4 5	200 772	

Flange frame de luxe 500		Pool type	Order no.	(RG-S)
Cover width 25 mm, material: stainless steel 1.4571		2 3	200 774	

Cover for flange frame de luxe 500		Pool type	Order no.	(RG-S)
Cover width 35 mm, material: stainless steel 1.4571		2 3	200 778	

Tile adapter frame de luxe 50		Pool type	Order no.	(RG-S)
Material: stainless steel 1.4571, height compensation: 50 mm		1 2 3 4 5	200 765	

Tile adapter frame de luxe 100		Pool type	Order no.	(RG-S)
Material: stainless steel 1.4571, height compensation: 100 mm		1 2 3 4 5	200 773	

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



ABS floor outlet

Floor outlet 1 1/2" (vertical outlet or 90° outlet)		Pool type	Order no.	(RG-S)
Ground connection provided				

Floor outlet 1 1/2", vertical outlet		Pool type	Order no.	(RG-S)
Material: Red brass/stainless steel 1.4571				
Connection: 1 1/2" female thread				

Floor outlet 1 1/2", vertical outlet	Pool type	Order no.	(RG-S)
	1 2 3 4	202 205	

Floor outlet 1 1/2", vertical outlet	Pool type	Order no.	(RG-S)
With pre-assembled PVC flange for sealing mass	5	202 225	

Floor outlet 1 1/2", 90° outlet	Pool type	Order no.	(RG-S)
	1 2 3 4	202 215	

Floor outlet 1 1/2", 90° outlet	Pool type	Order no.	(RG-S)
With pre-assembled PVC flange for sealing mass	5	202 235	

Flange kit		Pool type	Order no.	(RG-S)
Material: Brass		2 3	202 201	



Floor outlet 1 1/2", 90° outlet

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-S)
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-S)
Material		Sealing flange: red brass		
		Extension: PVC		

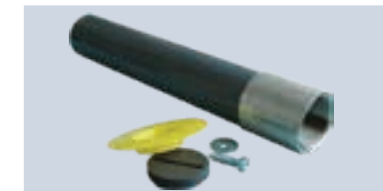


Straight wall duct 2"

Connection:		Pool type	Order no.	(RG-S)
Inside wall of pool	2" female thread			
Outside wall of pool [DN]	40			
Total length [mm]	400	1 2 3	202 300	

Straight wall duct 2"	Pool type	Order no.	(RG-S)
	1 2 3	202 300	

Straight wall duct 2"	Pool type	Order no.	(RG-S)
With pre-assembled PVC flange for sealing mass	5	202 302	



Wall duct 2" for retrofitting

Wall duct 2" for retrofitting		Pool type	Order no.	(RG-S)
Material		PVC, threaded sleeve:		
		stainless steel 1.4571		

Connection:		Pool type	Order no.	(RG-S)
Inside wall of pool	2" female thread			
Outside wall of pool [DN]	40			
Outside diameter [mm]	66			
Total length [mm]	400	4	202 305	



ABS basic element

ABS basic element		Pool type	Order no.	(RG-S)
Connection		2" male thread		
Length of thread [mm]		40	1 2 3 4	202 251

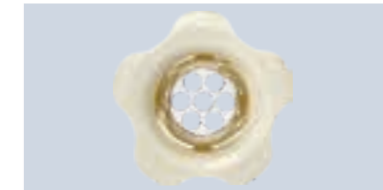
ABS flange kit		Pool type	Order no.	(RG-S)
Including 6 self-cutting screws and 2 seals		2	202 248	



ABS flange kit

ABS threaded connection		Pool type	Order no.	(RG-S)
Connection		2" female thread incl. 2 seals	3	202 247

ABS inlet nozzle		Pool type	Order no.	(RG-S)
Adjustable direction, suitable for ABS basic element				
Connection		1 1/2" 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-S)
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 with stainless steel ball, adjustable in direction		Pool type	Order no.	(RG-S)
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				
Material	Basic element: red brass Cover: stainless steel 1.4571	Pool type	Order no.	(RG-S)
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	

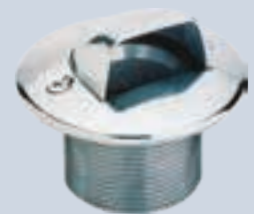
* Installation only possible in combination with wall ducts with order no. 202 300, 202 330 or 202 340.



Inlet nozzle 4-hole bore



Inlet nozzle bore Ø 18 mm



Conchoidal inlet piece

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-S)
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	
<i>Note: For channel outlets for vinyl-lined pools, please inquire.</i>				
Air outlet nozzle		Pool type	Order no.	(RG-S)
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-S)
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-S)
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	

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 outlet GENO-multiplex DN 65



Air outlet nozzle



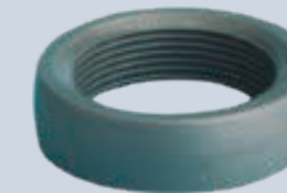
Floor inlet system (90° angle, T-piece)



Floor inlet piece - single duct



Floor inlet nozzle



Special threaded ring

Wall ducts, suction nozzle, connection pieces, hose fitting



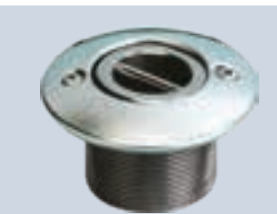
Wall duct 2", 45° angle

Wall ducts 2" with angle (45° or 2 x 90°)	Pool type	Order no.	(RG-S)
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-S)
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-S)
(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

Threaded connection for connection piece and suction nozzle			
Connection	2" female thread	3	202 150



Hose fitting for suction hose

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

* 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.

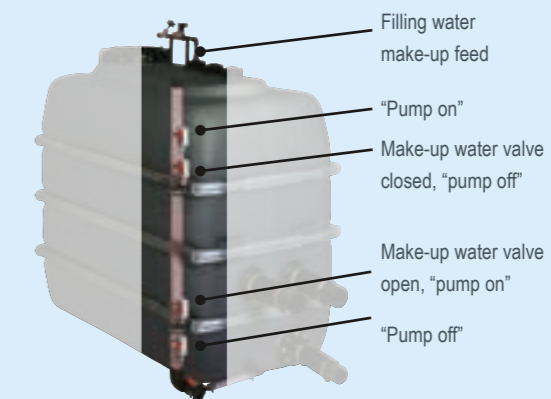
TIP

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 tanks	Tank dimensions l x w x h [mm]	Space required l x w x h [mm]	Order no.	(RG-S)
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 m ³	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 m ³	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 m ³	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 m ³	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 m ³	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 m ³	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 m ³	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 m ³	2,430 x 1,000 x 2,100	3,400 x 1,100 x 2,600	208 109	

Special raw water tanks	Tank dimensions l x w x h [mm]	Space required l x w x h [mm]	Order no.	(RG-S)
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 m ³	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 m ³	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.



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



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



Accessories for raw water tanks, leaf catcher

Level control and filling water make-up feed	Order no.	(RG-S)
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 spaliQ:UF200.		
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	

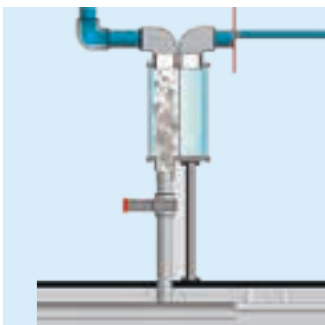
Level control and filling water make-up feed	Order no.	(RG-S)
Consisting of filling water make-up feed with solenoid valve (power supply 230 V/50 Hz) and Y-valve as well as level control with 4 switching points, 3-way ball valve made of PVC, compatible with GENO-BW-tronic control unit.		
Power supply [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-S)
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-S)
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-S)
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 EX-CHANGERS

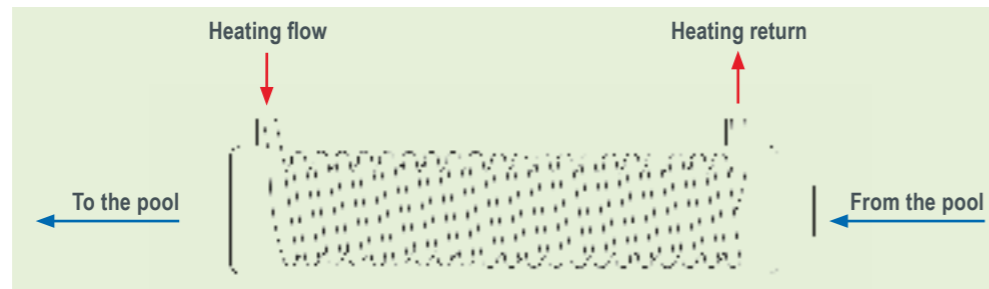


TIP

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 place 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-S)
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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

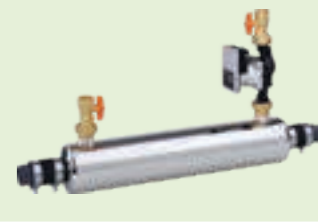


Heat exchanger GENO-WT 76

Compact heat exchanger GENO-WT-K – stainless steel	Order no.	(RG-S)
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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-S)
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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: 3/4" 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

* 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.



Heat exchanger GENO-WT-T 76



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	Transfer capacity at a heating flow of 70 °C/ heating flow of 60 °C	Order no.	(RG-S)
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	

* 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-S)
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	Capacity [kW]	Length [mm]	Order no.	(RG-S)
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	6	500	212 460	
Electrical heat exchanger GENO-EWT 12	12	500	212 470	
Electrical heat exchanger GENO-EWT 18	18	600	212 480	

Switch boxes for electrical heat exchangers	Order no.	(RG-S)
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-S)
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	



Stainless steel plate heat exchanger



Electrical heat exchanger GENO-EWT 12

Digital temperature controller, solar ball valve and accessories

Digital temperature controller	Order no.	(RG-S)
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

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

3-way solar ball valve Control	Order no.	(RG-S)
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

Thermostat 10 - 60 °C	Order no.	(RG-S)
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



Digital temperature controller



3-way solar ball valve Control



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

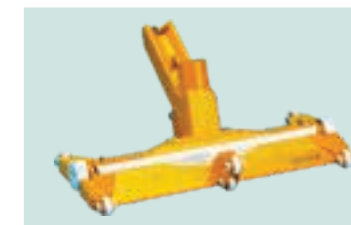
Self-propelled devices offer the highest level of convenience. They are driven by means of the filter system (Vac 2 Fun G) or by an integrated pump ("active" devices). Thanks to an auto program, the devices independently cover all pool areas.

Pool cleaning devices and accessories – filter-dependent

Pool cleaning devices Vac 8 and 470	Pool type	Order no.	(RG-S)
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-S)
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-S)
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	20600020000	
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-S)
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
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Three-part telescopic pole

Suitable for pool cleaning device James G, continuously adjustable from 2.50 - 5.50 m, material: anodised aluminium	20600020000
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100 µm filter bag

Suitable for pool cleaning device James G	206 615
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Pool cleaning device smart active

Pool cleaning device smart active	Pool type	Order no.	(RG-S)
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
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Pool cleaning device comfort active

Operation via app

Pool cleaning device comfort active	Pool type	Order no.	(RG-S)
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
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- 1 Tiled concrete pool
- 2 Vinyl-lined pool
- 3 Prefab pool
- 4 Concrete pool, retrofitting
- 5 Sealing mass (also available with optional press flange)



ATTRAKTIONS

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).

<p>Efficiency</p> <p>Ratio of the radiated light power to the electrical power used</p> <ul style="list-style-type: none"> • 3 times higher for LED lamps than for halogen lamps 	<p>Kelvin</p> <p>Colour temperature</p> <ul style="list-style-type: none"> • The lower the Kelvin value, the "warmer" the light
<p>Lumen (luminous flux)</p> <p>Unit of luminous flux</p> <ul style="list-style-type: none"> • Total quantity of light a lamp emits in all directions 	<p>DMX</p> <p>Digital Multiplex</p> <ul style="list-style-type: none"> • Thanks to a special software, the lighting technology can be controlled by computer
<p>Lumens per watt (lm/W)</p> <p>Light output, i.e. the effective conversion of electrical energy into light</p> <ul style="list-style-type: none"> • 5 times higher for LEDs than for halogen lamps 	<p>Lux</p> <p>Illuminance</p> <ul style="list-style-type: none"> • Measure of luminous flux incident on unit area of a surface

TIP

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

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.

Illumination packages/Design examples

Underwater illumination packages for a tiled concrete pool 8 x 4 m				
	ABS-PAR White 300 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	2 pieces	4 pieces	2 pieces
Underwater spotlight	3 pieces	2 pieces	4 pieces	2 pieces
Electronic ballast	–	–	1 piece	–
Dimmer	–	–	–	1 piece
Power supply unit	2 pieces	1 piece	–	1 piece
Wireless receiver module incl. remote control	–	–	1 piece	–
Distributor box	3 pieces	2 pieces	4 pieces	2 pieces
Order no. (RG-S)	207 380	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



White ABS-PAR underwater spotlight



ABS-LED-RGB GC 315 underwater spotlight

Lamp holder for ABS underwater spotlights	Pool type	Order no.	(RG-S)
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	Order no.	(RG-S)
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	Order no.	(RG-S)
Including 3 m special cable* (lamp holder not included), material: ABS, 520 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-S)
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	

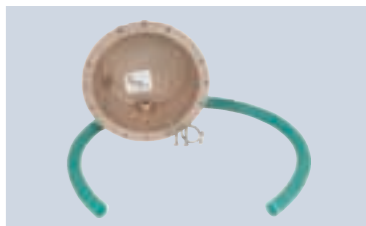
Power supply units	Max. connection option	Order no.	(RG-S)
Power supply unit 350 VA	1 UWS, 300 W/12 V	207 210	
Power supply unit 600 VA	2 UWS, 300 W/12 V	207000190000	
Power supply unit 50 VA	2 UWS, 20 W/12 V	207 275	

* 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)

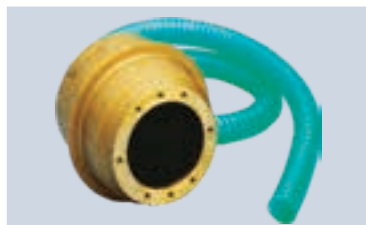
White halogen underwater spotlights and accessories

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



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

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-S)
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	
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	3	207 160	
Flange kit for lamp holder	5	207 137	
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-S)
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-S)
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-S)
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-S)
Material: red brass, including 1 m cable protection hose*			
Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W	1 2	207 257	
Lamp holder for underwater spotlights 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-S)
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	207000020000	
Cool white Power-LED underwater spotlight, 16/43 W	Stainless steel 1,4404	3	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-S)
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-S)
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-S)
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	
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	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	

Power-LED RGB-W underwater spotlight, 28/80 W	Cover	Order no.	(RG-S)
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-S)
Material: red brass, including 1 m cable protection hose*			
Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W	1 2	207 257	
Lamp holder for underwater spotlights Power-LED/LED RGB-W 16/43 W with pre-assembled flange for sealing mass	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-S)
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	207000070000	
Power-LED RGB-W underwater spotlight, 16/43 W	Stainless steel 1.4404	3	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-S)
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.

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



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

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-S)
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-S)
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-S)
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-S)
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	207 355	
Sub-distributor	starting from 5 UWS 4/11	207 365	

ABS distributor box	Material	Order no.	(RG-S)
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-S)
Dimensions (l x w x h) [mm]	115 x 115 x 68		
LE distributor box	Stainless steel	207 270	
	White-coated		
LW distributor box	stainless steel	207 271	

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

Counter-current systems

Example for counter-current system Essence			(RG-S)
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-S)
Red brass	1 2	209000100000	

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

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

Example for counter-current-system Visa					(RG-S)
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-S)
Material ABS	1 2 3 5	209000140000	

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

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

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



Counter-current system Essence Prefab kit



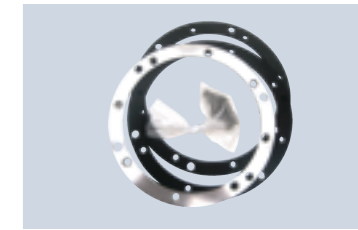
Counter-current system Essence Installation kit



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



Counter-current system Power-Stream
Installation example

Example for counter-current system Power-Stream I (RG-S)			
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-S)			
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-S)
Material V4A	1 2 3	209000040000	

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

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

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

Counter-current system Power-Stream – HMI module	Order no.	(RG-S)
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).

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-S)				
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-S)
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	4	209 232	
Material: brass casting			

* Note: Core drilling and sealing material by client

Counter-current system – prefab kit	Pool type	Order no.	(RG-S)
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, G3 rondo and G3S rondo	2 4	209 276	
	3	209 277	

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 rondo



Prefab kit for counter-current system
White plastic cover



Prefab kit for counter-current system
Stainless steel cover

Pump kits for counter-current systems



Pump kit

Pump kits	Order no.	(RG-S)
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-S)
Material: galvanised steel		
Wall bracket for pump kit	209 589	



Centrifugal pump SMK

Centrifugal pumps SMK – self-priming	Order no.	(RG-S)
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-S)
Including PE converter and motor protection		
Switch box for attraction pump	209 140	
Switch box for attraction pump with time relay	209 145	

Counter-current system and accessories

Pulsating massage jet for counter-current systems	Order no.	(RG-S)
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-S)
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-S)
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-S)
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-S)
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)



Pump kit WK-vario

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-S)
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	Order no.	(RG-S)
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		2 pieces	3 pieces	4 pieces
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

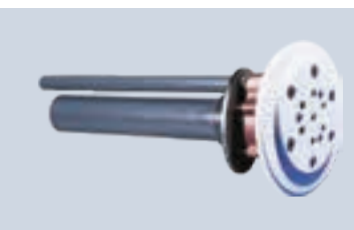
This design is a recommendation only!

Example for a 2-jet massage station, plastic version		1	2	4	(RG-S)
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-S)
	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-S)
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 White-coated cover	5 1 2 3 4 5	209 671 209 675	
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-S)
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-S)
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			
Material: galvanised steel			
Wall bracket for pump kit		209 589	

Switch boxes for attraction pumps
For order numbers 209 140, 209 145, 209 150, 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-S)
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-S)
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-S)
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-S)
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 prefab kit	Stainl. steel 1.4571	1 2 3 5	210 156	
PWS prefab kit 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-S)
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	

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
Package		210 460	210 480

System example for two loungers with air bubbling elements			
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 RSK K4	1 piece	304000010000	
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-S)
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	

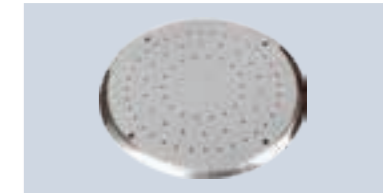
Air bubbling element	Dimensions (l x w x h) [mm]	Pool type	Order no.	(RG-S)
Can be used as air bubbling lounger or for concrete whirlpools. Required amount of air per element approx. 20 m³/h. Recommendation: 3 air bubbling elements per lounger				
Air bubbling element				
Material: white plastic, connection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

Additional special versions available.

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



Floor bubbling unit – installation kit



Floor bubbling unit – prefab kit



Air bubbling element

Accessories for air bubbling system



Blower K05MS-1.5

Blower K05MS-1.5		Order no.	(RG-S)
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-S)
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	



Suction filter

Non-return valve RSK K4		304000010000	
For installation into the air line, including connection flange DN 65			
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	

Pressure wave switch (PWS)/ Piezo switch (piezo)	Material	Pool type	Order no.	(RG-S)
PWS/piezo – installation kit	Red brass	1 2	210 155	
PWS/piezo – installation kit F	Red brass	3	210 120	
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	



Installation kit for pressure wave switch/piezo switch

Switch boxes for attraction pumps/blower	
Including PE converter and motor protection	
For order numbers 209 140, 209 145, 209 150, 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-S)
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-S)
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-S)
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	



Ladder joint with mounting sleeve (installation example)

* Delivered in pairs

Ladder model 450 in split design	Material	Pool type	Order no.	(RG-S)
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-S)
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
<p>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.</p> <p>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.</p> <p>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.</p>	<p>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.</p> <p>2 pH/chlorine – demand-controlled – dosing by means of hose dosing pumps By means of the automatic measuring and control system spaliQ Professional, the pH and redox (chlorine) values are continuously measured and controlled according to demand. Dosing is done by means of hose dosing pumps.</p> <p>3 pH/chlorine – demand-controlled – dosing by means of diaphragm pumps As described in 2), dosing is done by means of self-venting diaphragm pumps, however.</p> <p>4 pH/bromine – demand-controlled – dosing by means of a hose dosing pump By means of the automatic measuring and control system spaliQ Professional, 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.</p> <p>5 pH/bromine + UV – demand-controlled – dosing by means of a diaphragm pump By means of the automatic measuring and control system spaliQ Professional, 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.</p>

Disinfection packages

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

Note: The connecting kit for filter system GENO-mat (order no. 203000040000) is included in the disinfection package.



Automatic measuring and control system and accessories

Individual components for individual composition



spaliQ Professional

Automatic measuring and control system spaliQ Professional		Order no.	(RG-S)
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		
	1 RS 485 Modbus RTU and 1 TCP/IP (LAN/RJ45)		
Interfaces	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	



Hygro thermo transmitter

Flow controller		Order no.	(RG-S)
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	



Optional module for chemical refill and empty alarm

Hygro thermo transmitter		Order no.	(RG-S)
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-S)
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	

Connection kit to filter system GENO-mat, spaliQ:UF200		Order no.	(RG-S)
for new installations in connection with a filter system of the GENO-mat F- resp. BWK-series as well as spaliQ:UF200			
Connection kit to filter system GENO-mat and spaliQ:UF200		203000040000	

Dosing systems, pressure maintaining valve

Dosing system GENO-Schlauflex-CI 1.5 i and -pH 1.5 i		Suitable for	Order no.	(RG-S)
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-CI 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-CI 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		Suitable for	Order no.	(RG-S)
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	

Pressure maintaining valve DHV 2		Order no.	(RG-S)
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

	Dimensions (w x h) [mm]	Order no.	(RG-S)
Mounting plate for dosing pumps			
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	

	Dimensions (l x w x h) [mm]	Order no.	(RG-S)
Chemical spill tray			
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

		Order no.	(RG-S)
Dosing unit			
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	

		Order no.	RG-
GENO-UV-75			
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	S
Wall bracket for GENO-UV-75	523 217	S
Connection kit for GENO-UV-75		
Consisting of 2 stainless steel pipes DN 50, 0.5 m each (female thread 2", flange)	335 850	S
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.

PFLEGEPRODUKTE



Checking and optimising the water quality

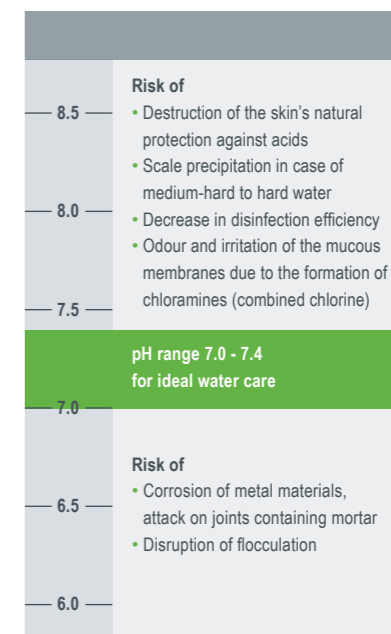
Check the water parameters at least once a week, even if an automatic measuring and control system is used.

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 Scuba3s 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.



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

Test kits and accessories



Test kit for bromine, chlorine and pH value

Test kits and indicators	Measuring range	Order no.	(RG-S)
To determine the values according to the DPD method			
Test kit	Br 0.22 - 13.2 mg/l		
for bromine, chlorine and pH value	Cl ₂ 0.1 - 6.0 mg/l		
	pH value 6.8 - 8.2	211 112	
Indicator for chlorine and bromine value			
100 tablets		211 210	
Indicator for pH value			
100 tablets		211 211	



Test device MD 4 in 1

Test device MD 4 in 1	Measuring range	Order no.	(RG-S)
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	



Test device Scuba3s

Digital test device Scuba3s	Measuring range	Order no.	(RG-S)
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]	20 - 120		
Acid capacity/alkalinity [mg/l]	5 - 300 CaCO ₃		
Bromine [mg/l]	0.2 - 13.5		
Digital test device Scuba3s		211000050000	

Indicators for test devices MD 4 in 1 and Scuba3s	Order no.	(RG-S)
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-S)
Self-floating			
Pool thermometer	vertical	211 301	
Pool thermometer Ø 180 mm	horizontal	211 305	

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

Safety package for pool water	Order no.	(RG-S)
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



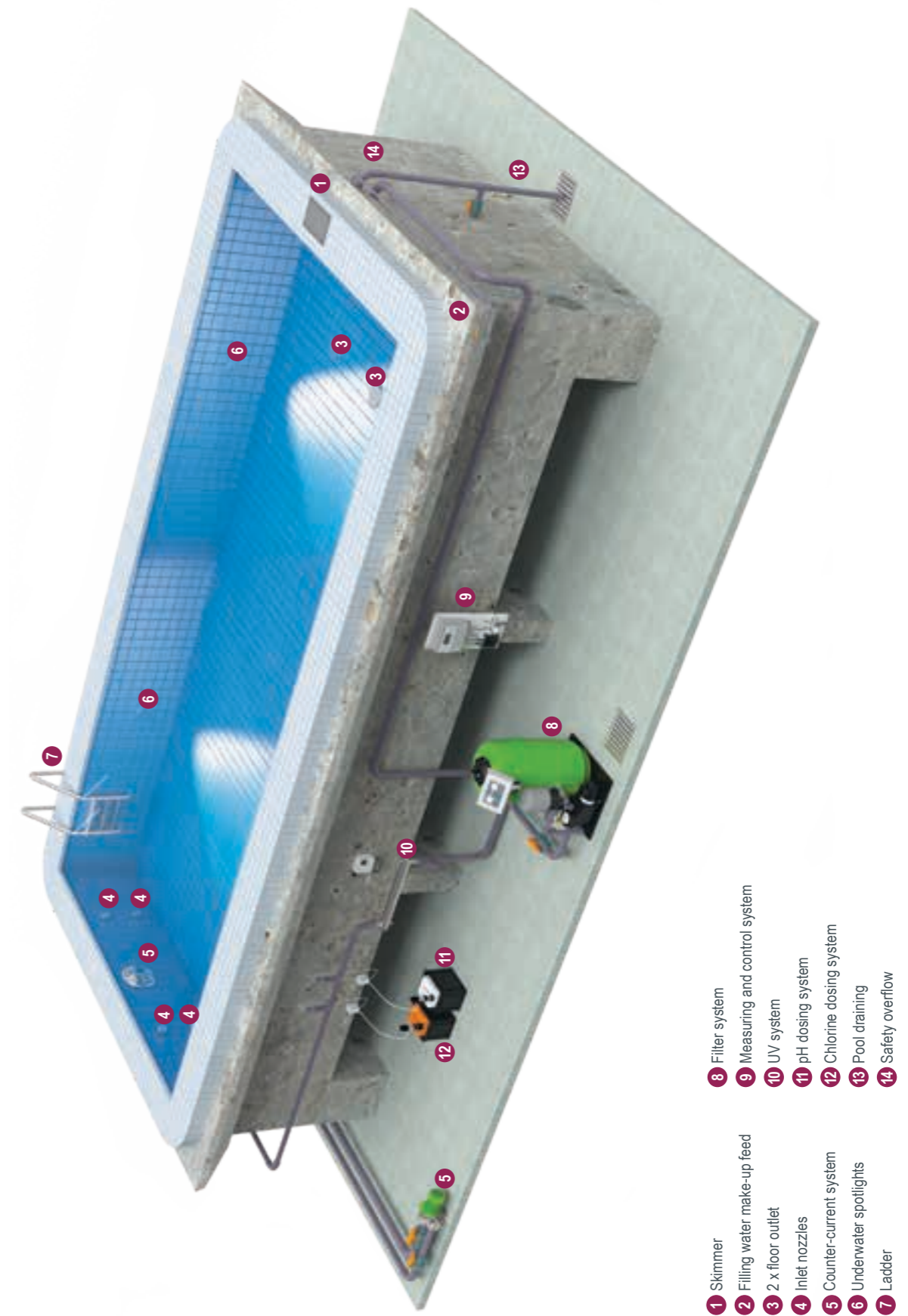
Dosing float

The ABC of swimming pool care

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

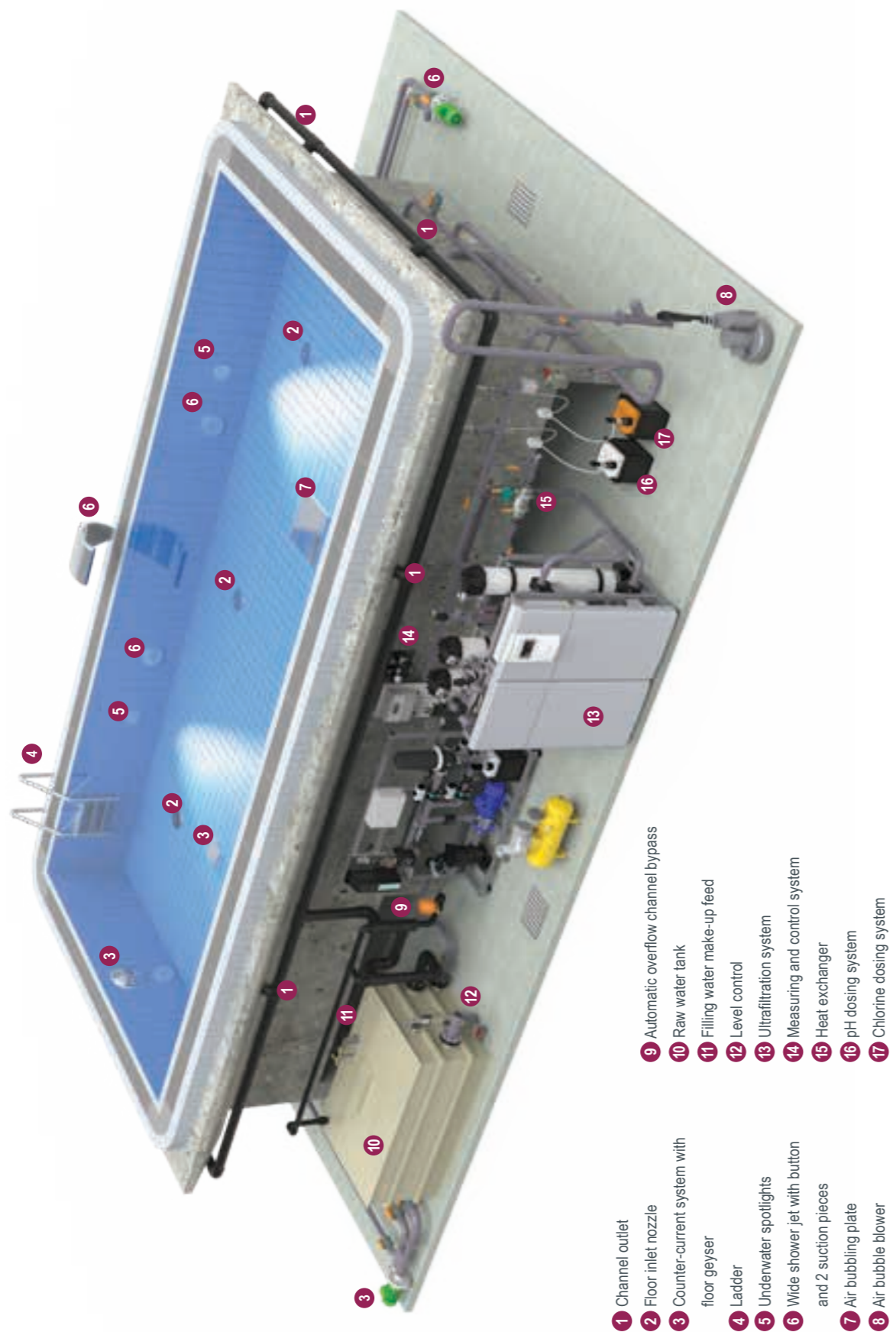
3D illustration of pool – Example: skimmer system



- 1 Skimmer
- 2 Filling water make-up feed
- 3 2 x floor outlet
- 4 Inlet nozzles
- 5 Counter-current system
- 6 Underwater spotlights
- 7 Ladder
- 8 Filter system
- 9 Measuring and control system
- 10 UV system
- 11 pH dosing system
- 12 Chlorine dosing system
- 13 Pool draining
- 14 Safety overflow



3D illustration of pool – Example: overflow channel 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 in combination with UV disinfection
 - For bromine and pH value

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



Company profile
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GERMANY

CEO
Dr. Günter Stoll

Staff
Approximately 770

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 DIN EN ISO 45001 Management Service

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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