

## High-layer filter container "BERLIN<sup>2</sup>"



The "BERLIN<sup>2</sup>" - high-layer filter container. Premium class entry level.

Pools with a high-quality finish, e.g. with an overflow gutter and volumes of up to 132 m<sup>3</sup> make high demands of the filter technology, the most important component for treatment of the swimming pool water. Thanks to BEHNCKE's innovative filter operating technology with its high filter bed, not only the energy and water consumption are reduced, but also the use of chemicals. In addition to the economic aspects relating to reduced operating costs, at the same time this technology also makes an important ecological contribution, i.e. it is an efficient investment in our future.

**BEHNCKE filter operating technology. The standard for perfection and innovation.**

"BERLIN<sup>2</sup>" high-layer filters are usable as single-layer (sand/AFM) and as multi-layer filters (sand/activated carbon). A special feature of BEHNCKE's operating technology is the inner sealing of the container wall, usually prescribed only for filters used in the public swimming pool sector. At the same time this feature provides important properties, such as material protection, a significantly longer service life (due to the homogeneous sealing of the inner wall) and osmotic resistance.

The interaction of the optionally available nozzle base and the ingenious filter hydraulics results in a highly effective method of physical water treatment - deep-bed filtration - made by BEHNCKE.

*The optional filter nozzle base guarantees better filtration flow.*

*Optional sight glass: for the resolute reduction of main-tenance to the minimum.*



**Pools are made for people. And not vice versa.**

The clear standard in the premium segment requires easy maintenance and a high degree of operating reliability. A high degree of stability is already provided by the moulded laminate base. The transparent acrylic cover, and the lateral manhole - also made of acrylic glass - enables uncomplicated checking of the backwashing function and filter material. A high working pressure of 2.5 bar and a maximum temperature of 40°C stand for sustainable operating reliability. Customized equipment, such as a transparent top manhole, ozone resistance, turning of the side service opening and non-standard heights by special request can be implemented without difficulty.

### High-layer filter container "BERLIN<sup>2</sup>" - Technical specifications

Size x Height	Ø 500 x 1430 mm	Ø 600 x 1450 mm	Ø 750 x 1440 mm
Outer diameter	Ø 525 mm	Ø 625 mm	Ø 835 mm
Connection	d 50	d 63	d 63
Filter area	0.20 m <sup>2</sup>	0.28 m <sup>2</sup>	0.50 m <sup>2</sup>
Weight (approx.)	34 kg	40 kg	55 kg

\* Included threaded connection coupling with gluing sleeve

## High-layer filter system "BERLIN<sup>2</sup>"

Especially in the sophisticated premium segment, complex interdependencies always have to lead to a perfect product solution.

It is precisely for complex system solutions that BEHNCKE relies on its expert engineering experience and on the manufacturing know-how of its site in Bühne (in the state of Saxony-Anhalt). German engineering expertise combined with perfected craftsmanship.

### Easy to install. Easy to put into operation.

Fully piped with a self-priming plastic filter pump (GS certified) and equipped with a large strainer, the filter pump is pre-mounted on a noise-absorbing and attractively



designed plastic pallet.. Equipped with a built-in nozzle cross, a drain cock including a hose connection, pressure gauge and manual air bleeder. The customized equipment is compatible, e.g. manual or automatic 6-way backwash valves and rod valves. An ozone-resistant finish, nozzle base, sight glass and a manhole with an acrylic glass cover can be realized depending on the customer's requirements.

High-layer filter system "BERLIN <sup>2</sup> " - Technical specifications					
Size x Flow rate *	Ø 500 mm x 8 m <sup>3</sup> /h	Ø 600 mm x 12 m <sup>3</sup> /h	Ø 750 mm x 22 m <sup>3</sup> /h	Ø 500 mm x 8 m <sup>3</sup> /h	Ø 600 mm x 12 m <sup>3</sup> /h
Voltage	400 Volt	400 Volt	400 Volt	230 Volt	230 Volt
Height	1430 mm	1450 mm	1440 mm	1430 mm	1430 mm
Pool volume in/out (up to) **	48/32 (m <sup>3</sup> )	72/48 (m <sup>3</sup> )	132/88 (m <sup>3</sup> )	48/32 (m <sup>3</sup> )	72/48 (m <sup>3</sup> )
Pump type	BADU 90/7	BADU 90/11	BADU 90/20	BADU 90/7	BADU 90/11
Wattage (P1)	0.50 kW	0.69 kW	1.40 kW	0.50 kW	0.69 kW

\* Flow rate was calculated with a pump output at 5 mH<sub>2</sub>O, under consideration of the DIN EN 16713 with a flow speed ≤ 50 m/h.

\*\* In= indoor pool, one complete water circulation in 6 h; Out= outdoor pool, one complete water circulation in 4 h.

### Requisite filter material for "BERLIN<sup>2</sup>"

AFM Activated Filter Material			
Size, [mm]	Ø 500	Ø 600	Ø 750
Grade 1 (0.4-1.0), [kg/bag]	126/6	189/9	273/13
Grade 2 (1.0-2.0), [kg/bag]	63/3	84/4	147/7
Total amount, [kg/bag]	189/9	273/13	420/20

\*\*\* For sand DIN EN 12904 the same amount of bags is required.

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