

## High-layer filter container "BERLIN"

The "BERLIN" - 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 150 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" 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 maintenance 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 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"- Technical specifications

Inner Diameter x Height	500 x 1400 mm	600 x 1460 mm	800 x 1525 mm
Outer Diameter	530 mm	630 mm	840 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	33,5 kg	40 kg	55 kg

## High-layer filter system "BERLIN"

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 4-way nozzles, 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"- Technical specifications

Container dia. x m <sup>3</sup> /h	530 mm x 13	630 mm x 15	840 mm x 25	530 mm x 13	630 mm x 15
Voltage	400 Volt	400 Volt	400 Volt	230 Volt	230 Volt
Hight (approx.)	1400 mm	1460 mm	1525 mm	1400 mm	1460 mm
Pools size (up to approx.)	50 m <sup>3</sup>	75 m <sup>3</sup>	150 m <sup>3</sup>	50 m <sup>3</sup>	75 m <sup>3</sup>
Pump type	BADU 90/13	BADU 90/15	BADU 90/25	BADU 90/13	BADU 90/15
Wattage	0,75 KW (P1)	1,0 KW (P1)	1,65 KW (P1)	0,85 KW (P1)	1,1 KW (P1)

### Filter sand DIN EN 12904, anthracite DIN EN 12909

Single-layer container, dia. in mm	500	600	800	Multi-layer container, dia. in mm	500	600	800
Grain size 0,4 - 0,8, kg	150	225	350	Grain size 0,4 - 0,8, kg	100	125	225
Grain size 0,7 - 1,2, kg	75	100	150	Grain size 0,7 - 1,2, kg	50	50	100
Hydro N, kg	----	----	----	Hydro N, kg	25	50	100
Total, kg	225	325	500	Total, kg	175	225	425

### AFM Activated Filter Material

Container, dia. in mm	500	600	800
Grade 1 (0,5 - 1,0), kg	125	175	300
Grade 2 (1,0 - 2,0), kg	50	75	125
Total, kg	175	250	425

Your specialized dealer