Public Filter Container

GOSLAR²

Always an idea ahead.

Behncke GmbH

Filter Container „GOSLAR²”

High-quality processing begins with the detail, as this is the only way an integral approach can be implemented consequently and perfectly.

BEHNCKE – public filter technology. Highest quality standards. Made in Germany.

Filter technology is the most important part of the water treatment process - particularly in the public swimming pool sector it requires the highest quality standards and functional safety to be maintained while fully adhering to the relevant guidelines, directives and hygiene laws. Certified in accordance with DIN EN ISO 9001:2000 and based on decades of experience in the drinking water, process water and swimming pool sector, BEHNCKE has well-established engineering skills and can therefore provide the latest process technology. The intensive and on-going evaluations in all sectors also guarantee the competitive edge with regard to the technical development of high-quality BEHNCKE filter containers.

The innovative and functional filter technology from BEHNCKE already meets tomorrow‘s environ-mental and economic requirements.

Based on the environmental requirements of recent years, BEHNCKE has developed and has now perfected a special functional filter technology. The mechanical and physical deep bed filtration system almost completely retains all types of unhygienic, organic and inorganic water polluting impurities on the surface of the filter and in the filter bed to maintain the best possible natural water quality. The technology simultaneously reduces the use of the relevant chemicals while also minimising energy and water consumption.

Particularly with regard to strict municipal and public requirements, this offers a way to significantly reduce operating costs and ensure a sustainable contribution is made that will help maintain a sustainable and healthy environment for future generations.

GOSLAR² - simple to maintain and excellent operational safety produced according to DIN 19605/19643.

The plastic container is made of high-quality glass fibre reinforced polyester resin that is completely nontoxic and corrosion resistant. It is equipped with an internal seal, an upper inspection opening according DN 220 and internal natural water pipework fitted with a strengthened counter bearing making it break-resistant.

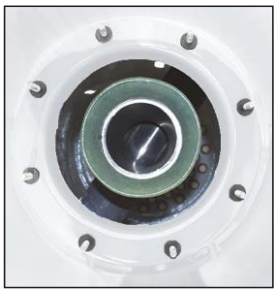
Additionally, the „GOSLAR²“ filter container comprises a bed of nozzles (65 nozzles/m2 of filter surface) and a large lateral 280 x 450 mm service opening, DN 400 at a diameter of Ø 1200 and an inspection window
(150 x 50 mm). The manhole covers in the cylindrical casing are all made of GFRP (and of PP in the upper base) and are extremely light weight, making them easy to assemble.

„GOSLAR²“ can also be provided as a complete filter system upon request. All of the piping and filter pump inclu-ding fibre collector are preassembled on noise insulating palette.

The filters can be supplied in an ozone-resistant de-sign (thermal after treatment according to DIN 18820 to generate the ozone-resistance of the filter container). The ozone-resistance is guaranteed by using high-quality polyester resin based on isophthalic acid/neopentylglycol (ISO/NPG).

The „GOSLAR²“ filter container is best suited for the general treatment of process water, while the flexi-bility of the system simultaneously offers numerous other implementation and connection options so that inspection windows and spotlights can be arranged according to individual requirements.

Easy access to parts that require maintenance thanks to the upper inspection opening.



Excellent operational safety thanks to, for example, DIN19605/19643 for pure water connections

Other characteristics - brief overview of the „GOSLAR²“

- Recognised test certificates in accordance with KSW (test certificate for use in swimming pools) / KTW (test certificate for use with drinking water) and DVGW worksheet W270.
- Pressure container testing completed by expert according to the works standard.
- Manhole opening or inspection opening in the upper section and service opening in the cylindrical casing according to the works standard.
- Operational pressure of 2.5 bar
- Testing pressure of 3.575 bar
- Max. operating temperature of 40°C
- Special design for higher temperatures, ozone-resistance and special heights

„GOSLAR²“ filter material

- AFM (active filter material)
- Anthracite according to DIN EN 12909
- Sand according to DIN EN 12904

Always a step ahead. Behncke GmbH

Filter Container/Filter System „GOSLAR²“

Overview of the technical data

Fill level 1200 mm -1300 mm, casing height 1700 mm					
Size	Ø 600 mm	Ø 800 mm	Ø 1000 mm	Ø 1200 mm	Ø 1400 mm
Outer diameter	Ø 620 mm	Ø 825 mm	Ø 1020 mm	Ø 1230 mm	Ø 1430 mm
Height	2150 mm	2180 mm	2250 mm	2420 mm	2570 mm
Weight when empty (approx.)	84 kg	163 kg	232 kg	400 kg	535 kg
Filtration performance 30 m/h	9 m^3/h	15 m^3/h	24 m^3/h	34 m^3/h	46 m^3/h
Filtration performance 50 m/h	14 m^3/h	25 m^3/h	39 m^3/h	57 m^3/h	
Operating pressure	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar
Testing pressure	3,575 bar	3,575 bar	3,575 bar	3,575 bar	3,575 bar

Fill level 1500 mm, casing height 2000 mm					
Size	Ø600 mm	Ø800 mm	Ø1000 mm	Ø1200 mm	Ø 1400 mm
Outer diameter	Ø620 mm	Ø825 mm	Ø1020 mm	Ø1230 mm	Ø 1430 mm
Height	2450 mm	2480 mm	2550 mm	2620 mm	2772 mm
Weight when empty (approx.) Filtration	98 kg	176 kg	251 kg	432 kg	565 kg
performance 30 m/h Filtration	9 m^3/h	15 m^3/h	24 m^3/h	34 m^3/h	46 m^3/h
performance 50 m/h Operating	14 m^3/h	25 m^3/h	39 m^3/h	57 m^3/h	
pressure	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar
Size	3,575 bar	3,575 bar	3,575 bar	3,575 bar	3,575 bar