ASTRALPOOL · Sand Filters

Berlin (Servaqua) Filament-Wound Sand Filter



AstralPool Berlin (Servaqua) is a sand filter with a filament-wound reinforced polyester body in blue-green with a dust-repellent polished finish. In Ø 500–1200 mm it delivers 9–56 m³/h at 50 m³/h/m²; a pressure gauge and air purge are included, it works at 2.5 bar (4 bar on one model) and complies with EN 16713-1.

- Filament-wound, double-coated durable body
- Dust-repellent polished blue-green finish
- Ø 500 – 1200 mm, 9 – 56 m³/h at 50 m³/h/m²
- Pressure gauge and air purge included; 4 bar version available
- Suitable for commercial pools, compliant with EN 16713-1

General Specifications

Filter type	Filament-wound sand filter
Body material	Polyester reinforced with filament winding, double coating
Colour	Blue-green, dust-repellent polished
Lid	Ø 230 mm bolted · Ø 1050–1200: Ø 400 mm
Max. working pressure	2.5 bar (28474: 4 bar)
Filtration rate	50 m³/h/m²
Diameter range	Ø 500 – 1200 mm
Flow rate range	9 – 56 m³/h
Included	Pressure gauge, air purge
Multiport valve	Ø 500–750 mm: side valve · Ø 900–1200 mm: bare
Filter media	Sand and glass media compatible
Standard	EN 16713-1

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Order Codes

Order code	Description	Certification
00541	Ø 500 mm · 9 m³/h · 1½" connection · 2.5 bar · with side-mount multiport valve	EN 16713-1
00542	Ø 600 mm · 14 m³/h · 1½" connection · 2.5 bar · with side-mount multiport valve	EN 16713-1
00543	Ø 750 mm · 21 m³/h · 2" connection · 2.5 bar · with side-mount multiport valve	EN 16713-1
00544	Ø 900 mm · 30 m³/h · 2½" connection · 2.5 bar · bare, without valve	EN 16713-1
15397	Ø 900 mm · 30 m³/h · 2" connection · 2.5 bar · bare, without valve	EN 16713-1
28474	Ø 900 mm · 30 m³/h · 2" connection · 4 bar · bare, without valve	EN 16713-1
00545	Ø 1050 mm · 43 m³/h · D75 connection · 2.5 bar · bare, without valve	EN 16713-1
00546	Ø 1200 mm · 56 m³/h · D90 connection · 2.5 bar · bare, without valve	EN 16713-1

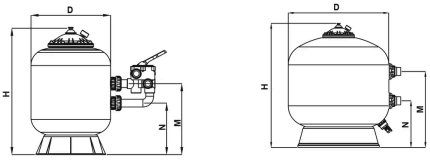
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Technical Values by Order Code

Parameter	00541	00542	00543	00544	15397	28474	00545	00546
Ø Filter (mm)	500	600	750	900	900	900	1050	1200
H (mm)	805	910	1050	1145	1135	1135	1300	1450
M (mm)	450	505	610	685	635	635	810	870
N (mm)	325	380	380	415	405	405	500	560
Connection	1½"	1½"	2"	2½"	2"	2"	D75	D90
Flow rate at 50 m³/h/m² (m³/h)	9	14	21	30	30	30	43	56
Pool volume (m³)	50-75	75-115	115-170	170-240	–	–	240-350	350-450
Sand quantity (kg)	100	175	300	525	525	525	575	800
Gravel (kg)	–	–	–	–	–	–	300	300
Glass media 57011 (kg)	75	150	200	350	350	350	600	825
Glass media 57013, class 2 (kg)	0	0	50	75	75	75	175	200
Max. working pressure (bar)	2.5	2.5	2.5	2.5	2.5	4	2.5	2.5
Net weight (kg)	15.3	19.8	33.1	51.4	51.4	51.4	100	130
Package volume (m³)	0.35	0.37	0.65	1.01	1.01	1.01	1.92	2.70

Dimension Drawing



Selection Guide

$Q = A \times v$

Q: filter flow rate (m³/h) · A: filtration surface area (m²) · v: filtration rate (50 m³/h/m²)

$V_{pool} = Q \times t$

t: turnover time (h). Example: Ø 750 mm → 0.44 m² × 50 ≈ 22 m³/h; with an 8-hour turnover ≈ 176 m³ of pool volume.

Pump flow should not exceed the filter flow rate; when glass media is used instead of sand, refer to the glass media quantities in the table.

Application Areas

- Residential and villa pools
- Commercial, hotel and residential complex pools
- High-flow pools (Ø 1050–1200 mm)

Technical values are based on the manufacturer's (AstralPool) 2026 catalog data; the manufacturer reserves the right to make technical changes without prior notice. Please request a quote from Artemis Pool Systems for project-specific selection, pricing and lead time.

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