ASTRALPOOL · Sand Filters

Olot Filament-Wound Sand Filter – Public Pools



AstralPool Olot is a filament-wound public pool sand filter designed to DIN 19605/19643, with a nozzle plate and side manhole. In Ø 1050–2200 mm inner diameters it delivers 25–114 m³/h at 30 m³/h/m²; it comes with a 1.2 m or 1.5 m filter bed and 2.5 bar / 4 bar pressure classes.

- Designed to DIN 19605 / 19643
- Nozzle plate distribution, Ø 400 mm lid and side manhole
- 1.2 m or 1.5 m filter bed
- Ø 1050 – 2200 mm, 25 – 114 m³/h at 30 m³/h/m²
- 2.5 bar and 4 bar pressure classes

General Specifications

Filter type	Filament-wound sand filter, public pools
Body material	Isophthalic polyester + fibreglass
Distribution system	Nozzle plate, side manhole
Filter bed height	1.2 m or 1.5 m
Max. working pressure	2.5 bar or 4 bar
Filtration rate	30 m³/h/m²
Diameter range	Inner Ø 1050 – 2200 mm
Flow rate range	25 – 114 m³/h
Connection size	110 – 225 mm
Lid	Ø 400 mm + side manhole
Included	Pressure gauge, air purge, water drain valve
Not included	Filter media and valve collector (sold separately)
Standard	DIN 19605 / DIN 19643

Artemis Havuzculuk ve İnşaat Sanayi Ticaret Limited Şirketi
Barbaros Mah. Barbaros Cad. No:144/2, Ataşehir İstanbul – TÜRKİYE
T: +90 505 732 57 56 · E: info@artemispool.com · artemispool.com

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Order Codes

Order code	Description	Certification
07355-120	bed 1.2 m · Ø 1050 mm · 30 m³/h/m² · 25 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
07356-120	bed 1.2 m · Ø 1200 mm · 30 m³/h/m² · 33 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
07447-120	bed 1.2 m · Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 140 mm connection · 2.5 bar	EN 16713-1
07357-120	bed 1.2 m · Ø 1600 mm · 30 m³/h/m² · 60 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
07448-120	bed 1.2 m · Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 200 mm connection · 2.5 bar	EN 16713-1
07358-120	bed 1.2 m · Ø 2000 mm · 30 m³/h/m² · 94 m³/h · 225 mm connection · 2.5 bar	EN 16713-1
56934-120	bed 1.2 m · Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 225 mm connection · 2.5 bar	EN 16713-1
07355-120 PR 04	bed 1.2 m · Ø 1050 mm · 30 m³/h/m² · 25 m³/h · 110 mm connection · 4 bar	EN 16713-1
07356-120 PR 04	bed 1.2 m · Ø 1200 mm · 30 m³/h/m² · 33 m³/h · 125 mm connection · 4 bar	EN 16713-1
07447-120 PR 04	bed 1.2 m · Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 140 mm connection · 4 bar	EN 16713-1
07357-120 PR 04	bed 1.2 m · Ø 1600 mm · 30 m³/h/m² · 60 m³/h · 160 mm connection · 4 bar	EN 16713-1
07448-120 PR 04	bed 1.2 m · Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 200 mm connection · 4 bar	EN 16713-1
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56934-120 PR 04	bed 1.2 m · Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 225 mm connection · 4 bar	EN 16713-1
18227-120	bed 1.5 m · Ø 1050 mm · 30 m³/h/m² · 25 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
18228-120	bed 1.5 m · Ø 1200 mm · 30 m³/h/m² · 33 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
18229-120	bed 1.5 m · Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 140 mm connection · 2.5 bar	EN 16713-1
18230-120	bed 1.5 m · Ø 1600 mm · 30 m³/h/m² · 60 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
18231-120	bed 1.5 m · Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 200 mm connection · 2.5 bar	EN 16713-1
18232-120	bed 1.5 m · Ø 2000 mm · 30 m³/h/m² · 94 m³/h · 225 mm connection · 2.5 bar	EN 16713-1
65547-120	bed 1.5 m · Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 225 mm connection · 2.5 bar	EN 16713-1
18227-120 PR 04	bed 1.5 m · Ø 1050 mm · 30 m³/h/m² · 25 m³/h · 110 mm connection · 4 bar	EN 16713-1
18228-120 PR 04	bed 1.5 m · Ø 1200 mm · 30 m³/h/m² · 33 m³/h · 125 mm connection · 4 bar	EN 16713-1
18229-120 PR 04	bed 1.5 m · Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 140 mm connection · 4 bar	EN 16713-1
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Technical Values by Model

Parameter	Ø 1050	Ø 1200	Ø 1400	Ø 1600	Ø 1800	Ø 2000	Ø 2200
Filtration surface area (m²)	0.87	1.13	1.54	2.01	2.54	3.14	3.80
Flow rate (m³/h)	25	33	46	60	76	94	114
Connection (mm)	110	125	140	160	200	225	225
1.2 m · Sand 0.4–0.8 mm (kg)	1300	1775	2300	3000	3800	4650	5625
1.2 m · Silex gravel 1–2 mm (kg)	150	175	250	300	400	500	600
1.2 m, multilayer · Anthracite 0.8–1.6 mm (kg)	450	575	775	1000	1275	1575	1900
1.2 m, multilayer · Sand 0.4–0.8 mm (kg)	700	800	1025	1375	1750	2125	2550
1.2 m, multilayer · Silex gravel 1–2 mm (kg)	150	175	250	300	400	500	600
1.2 m · Glass media fine (kg)	850	1150	1475	1925	2450	3000	3625
1.2 m · Glass media medium (kg)	425	575	750	975	1225	1500	1825
1.5 m, multilayer · Anthracite 0.8–1.6 mm (kg)	450	575	775	1000	1275	1575	1900
1.5 m, multilayer · Sand 0.4–0.8 mm (kg)	725	950	1250	1650	2100	2550	3100
1.5 m, multilayer · Silex gravel 1–2 mm (kg)	150	175	250	300	400	500	600
1.5 m, multilayer · Silex gravel 2–3 mm (kg)	150	175	250	300	400	500	600
1.5 m, multilayer · Silex gravel 3–5 mm (kg)	150	175	250	300	400	500	600

Application Areas

- Municipal and public swimming pools
- Hotel, resort and sports facility pools
- Olympic and semi-Olympic pools
- Water parks and large decorative pools

Selection Guide

$$Q = A \times v$$

Q: filter flow rate (m³/h) · A: filtration surface area (m²) · v: filtration rate (20–50 m³/h/m²)

$$V_{pool} = Q \times t$$

t: turnover time (h). Example: Ø 1600 mm → 2.01 m² × 30 ≈ 60 m³/h; with a 4-hour turnover ≈ 240 m³ of pool volume.

For public pools the filtration rate and turnover time are set per project according to bather load and applicable regulations; a lower rate gives better water quality.

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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