ASTRALPOOL · Sand Filters

Oslo Filament-Wound Sand Filter – Public Pools



AstralPool Oslo is a filament-wound public pool sand filter made of isophthalic polyester and fibreglass with a 1.2 m filter bed. In Ø 1050–2200 mm inner diameters it delivers 25–152 m³/h at 30 and 40 m³/h/m²; it is available in 2.5, 4 and 6 bar pressure classes, with collector arms or a nozzle plate.

- 1.2 m filter bed, filament-wound polyester + fibreglass body
- 2.5, 4 and 6 bar pressure classes
- Ø 1050 – 2200 mm, 25 – 152 m³/h at 30 / 40 m³/h/m²
- Single-layer, multilayer (anthracite) or glass media
- Collector arms or nozzle plate distribution

General Specifications

Filter type	Filament-wound sand filter, public pools
Body material	Isophthalic polyester + fibreglass
Filter bed height	1.2 m
Distribution system	Collector arms (standard) or nozzle plate (optional)
Max. working pressure	2.5 / 4 / 6 bar
Filtration rate	20 – 50 m³/h/m² (catalog selection: 30 / 40)
Diameter range	Inner Ø 1050 – 2200 mm
Flow rate range	25 – 152 m³/h
Connection size	75 – 160 mm
Lid	Ø 400 mm
Included	Pressure gauge, air purge, water drain valve
Not included	Filter media and valve collector (sold separately)

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Product page

Order Codes

Order code	Description	Certification
04611	Ø 1050 mm · 30 m³/h/m² · 25 m³/h · 75 mm connection · 2.5 bar	EN 16713-1
04612	Ø 1050 mm · 40 m³/h/m² · 34 m³/h · 90 mm connection · 2.5 bar	EN 16713-1
04613	Ø 1200 mm · 30 m³/h/m² · 33 m³/h · 75 mm connection · 2.5 bar	EN 16713-1
04650	Ø 1200 mm · 40 m³/h/m² · 45 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
04615	Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 90 mm connection · 2.5 bar	EN 16713-1
04616	Ø 1400 mm · 40 m³/h/m² · 61 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
04619	Ø 1600 mm · 30 m³/h/m² · 60 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
04651	Ø 1600 mm · 40 m³/h/m² · 80 m³/h · 140 mm connection · 2.5 bar	EN 16713-1
04623	Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
04624	Ø 1800 mm · 40 m³/h/m² · 101 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
04626	Ø 2000 mm · 30 m³/h/m² · 94 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
04652	Ø 2000 mm · 40 m³/h/m² · 125 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
56935	Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 140 mm connection · 2.5 bar	EN 16713-1
56936	Ø 2200 mm · 40 m³/h/m² · 152 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
05168	Ø 1050 mm · 30 m³/h/m² · 25 m³/h · 75 mm connection · 4 bar	EN 16713-1
05173	Ø 1050 mm · 40 m³/h/m² · 34 m³/h · 90 mm connection · 4 bar	EN 16713-1
05169	Ø 1200 mm · 30 m³/h/m² · 33 m³/h · 75 mm connection · 4 bar	EN 16713-1
05174	Ø 1200 mm · 40 m³/h/m² · 45 m³/h · 110 mm connection · 4 bar	EN 16713-1
07436	Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 90 mm connection · 4 bar	EN 16713-1
07437	Ø 1400 mm · 40 m³/h/m² · 61 m³/h · 125 mm connection · 4 bar	EN 16713-1
05170	Ø 1600 mm · 30 m³/h/m² · 60 m³/h · 110 mm connection · 4 bar	EN 16713-1
05175	Ø 1600 mm · 40 m³/h/m² · 80 m³/h · 140 mm connection · 4 bar	EN 16713-1
07438	Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 125 mm connection · 4 bar	EN 16713-1
07439	Ø 1800 mm · 40 m³/h/m² · 101 m³/h · 160 mm connection · 4 bar	EN 16713-1
05171	Ø 2000 mm · 30 m³/h/m² · 94 m³/h · 125 mm connection · 4 bar	EN 16713-1
05176	Ø 2000 mm · 40 m³/h/m² · 125 m³/h · 160 mm connection · 4 bar	EN 16713-1
57810	Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 140 mm connection · 4 bar	EN 16713-1
57811	Ø 2200 mm · 40 m³/h/m² · 152 m³/h · 160 mm connection · 4 bar	EN 16713-1
05168 PR 06	Ø 1050 mm · 30 m³/h/m² · 25 m³/h · 75 mm connection · 6 bar	EN 16713-1
05173 PR 06	Ø 1050 mm · 40 m³/h/m² · 34 m³/h · 90 mm connection · 6 bar	EN 16713-1

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Product page

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05169 PR 06	Ø 1200 mm · 30 m³/h/m² · 33 m³/h · 75 mm connection · 6 bar	EN 16713-1
05174 PR 06	Ø 1200 mm · 40 m³/h/m² · 45 m³/h · 110 mm connection · 6 bar	EN 16713-1
07436 PR 06	Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 90 mm connection · 6 bar	EN 16713-1
07437 PR 06	Ø 1400 mm · 40 m³/h/m² · 61 m³/h · 125 mm connection · 6 bar	EN 16713-1
05170 PR 06	Ø 1600 mm · 30 m³/h/m² · 60 m³/h · 110 mm connection · 6 bar	EN 16713-1
05175 PR 06	Ø 1600 mm · 40 m³/h/m² · 80 m³/h · 140 mm connection · 6 bar	EN 16713-1
07438 PR 06	Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 125 mm connection · 6 bar	EN 16713-1
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57810 PR 06	Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 140 mm connection · 6 bar	EN 16713-1
57811 PR 06	Ø 2200 mm · 40 m³/h/m² · 152 m³/h · 160 mm connection · 6 bar	EN 16713-1

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Product page

Technical Values by Model

Parameter	Ø 1050	Ø 1200	Ø 1400	Ø 1600	Ø 1800	Ø 2000	Ø 2200
Filtration surface area (m²)	0.86	1.13	1.54	2.01	2.54	3.14	3.80
Collector · Sand 0.4–0.8 mm (kg)	1300	1775	2300	3000	3800	4650	5625
Collector · Silex gravel 1–2 mm (kg)	300	350	500	775	850	1150	1400
Collector, multilayer · Anthracite 0.8–1.6 mm (kg)	450	575	775	1000	1275	1575	1900
Collector, multilayer · Sand 0.4–0.8 mm (kg)	700	800	1025	1375	1750	2125	2550
Collector, multilayer · Silex gravel 1–2 mm (kg)	300	350	500	775	850	1150	1400
Collector · Glass media fine (kg)	1700	2325	3025	3950	5000	6100	7375
Collector · Glass media medium (kg)	375	525	675	875	1100	1350	1650
Collector · Glass media coarse (kg)	275	300	450	675	750	1000	1225
Nozzle plate · Sand 0.4–0.8 mm (kg)	1300	1775	2300	3000	3800	4650	5625
Nozzle plate · Silex gravel 1–2 mm (kg)	150	175	250	300	400	500	600
Nozzle, multilayer · Anthracite 0.8–1.6 mm (kg)	450	575	775	1000	1275	1575	1900
Nozzle, multilayer · Sand 0.4–0.8 mm (kg)	700	800	1025	1375	1750	2125	2550
Nozzle, multilayer · Silex gravel 1–2 mm (kg)	150	175	250	300	400	500	600
Nozzle plate · Glass media fine (kg)	850	1150	1475	1925	2450	3000	3625
Nozzle plate · Glass media medium (kg)	425	575	750	975	1225	1500	1825

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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