ASTRALPOOL · Sand Filters

Praga Filament-Wound Sand Filter – Public Pools



AstralPool Praga is a filament-wound public pool sand filter made of isophthalic polyester and fibreglass with a 1 m filter bed. In Ø 1050–2200 mm it delivers 17–157 m³/h at 20–50 m³/h/m²; it is available in 2.5 bar and 4 bar pressure classes, with collector arms or an optional nozzle plate, and complies with EN 16713-1.

- Filament-wound isophthalic polyester + fibreglass body, 1 m filter bed
- Ø 1050 – 2200 mm, 17 – 157 m³/h at 20 – 50 m³/h/m²
- 2.5 bar and 4 bar pressure classes
- Collector arms or optional nozzle plate distribution
- Pressure gauge, air purge and water drain valve included
- Compliant with EN 16713-1

General Specifications

Filter type	Filament-wound sand filter, public pools
Body material	Isophthalic polyester + fibreglass
Filter bed height	1 m
Distribution system	Collector arms (standard) or nozzle plate (optional)
Max. working pressure	2.5 bar or 4 bar
Filtration rate	20 / 30 / 40 / 50 m³/h/m²
Diameter range	Ø 1050 – 2200 mm
Flow rate range	17 – 157 m³/h
Connection size	63 – 160 mm
Lid	Ø 400 mm
Drains	2½" sand drain plug
Included	Pressure gauge, air purge, water drain valve
Not included	Filter media and valve collector (sold separately)
Standard	EN 16713-1

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Order Codes

Order code	Description	Certification
00687	Ø 1050 mm · 20 m³/h/m² · 17 m³/h · 63 mm connection · 2.5 bar	EN 16713-1
00694	Ø 1050 mm · 30-40 m³/h/m² · 25/34 m³/h · 75 mm connection · 2.5 bar	EN 16713-1
00707	Ø 1050 mm · 50 m³/h/m² · 43 m³/h · 90 mm connection · 2.5 bar	EN 16713-1
00688	Ø 1200 mm · 20-30 m³/h/m² · 22/33 m³/h · 75 mm connection · 2.5 bar	EN 16713-1
00702	Ø 1200 mm · 40-50 m³/h/m² · 45/56 m³/h · 90 mm connection · 2.5 bar	EN 16713-1
00689	Ø 1400 mm · 20 m³/h/m² · 30 m³/h · 75 mm connection · 2.5 bar	EN 16713-1
00696	Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 90 mm connection · 2.5 bar	EN 16713-1
00703	Ø 1400 mm · 40 m³/h/m² · 61 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
00690	Ø 1600 mm · 20 m³/h/m² · 40 m³/h · 90 mm connection · 2.5 bar	EN 16713-1
00697	Ø 1600 mm · 30-40 m³/h/m² · 60/80 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
00710	Ø 1600 mm · 50 m³/h/m² · 100 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
00691	Ø 1800 mm · 20 m³/h/m² · 50 m³/h · 90 mm connection · 2.5 bar	EN 16713-1
00698	Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
00705	Ø 1800 mm · 40 m³/h/m² · 101 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
00711	Ø 1800 mm · 50 m³/h/m² · 125 m³/h · 140 mm connection · 2.5 bar	EN 16713-1
33312	Ø 1800 mm · 50 m³/h/m² · 125 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
00692	Ø 2000 mm · 20 m³/h/m² · 62 m³/h · 110 mm connection · 2.5 bar	EN 16713-1
00699	Ø 2000 mm · 30 m³/h/m² · 94 m³/h · 125 mm connection · 2.5 bar	EN 16713-1
00706	Ø 2000 mm · 40 m³/h/m² · 125 m³/h · 140 mm connection · 2.5 bar	EN 16713-1
05083	Ø 2000 mm · 50 m³/h/m² · 157 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
56937	Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 140 mm connection · 2.5 bar	EN 16713-1
56938	Ø 2200 mm · 40 m³/h/m² · 152 m³/h · 160 mm connection · 2.5 bar	EN 16713-1
09209	Ø 1050 mm · 20 m³/h/m² · 17 m³/h · 63 mm connection · 4 bar	EN 16713-1
00712	Ø 1050 mm · 30-40 m³/h/m² · 25/34 m³/h · 75 mm connection · 4 bar	EN 16713-1
00724	Ø 1050 mm · 50 m³/h/m² · 43 m³/h · 90 mm connection · 4 bar	EN 16713-1
00713	Ø 1200 mm · 20-30 m³/h/m² · 22/33 m³/h · 75 mm connection · 4 bar	EN 16713-1
00719	Ø 1200 mm · 40-50 m³/h/m² · 45/56 m³/h · 90 mm connection · 4 bar	EN 16713-1
09210	Ø 1400 mm · 20 m³/h/m² · 30 m³/h · 75 mm connection · 4 bar	EN 16713-1
00714	Ø 1400 mm · 30 m³/h/m² · 46 m³/h · 90 mm connection · 4 bar	EN 16713-1
00720	Ø 1400 mm · 40 m³/h/m² · 61 m³/h · 110 mm connection · 4 bar	EN 16713-1

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Order Codes

Order code	Description	Certification
09211	Ø 1600 mm · 20 m³/h/m² · 40 m³/h · 90 mm connection · 4 bar	EN 16713-1
00715	Ø 1600 mm · 30-40 m³/h/m² · 60/80 m³/h · 110 mm connection · 4 bar	EN 16713-1
00727	Ø 1600 mm · 50 m³/h/m² · 100 m³/h · 125 mm connection · 4 bar	EN 16713-1
09212	Ø 1800 mm · 20 m³/h/m² · 50 m³/h · 90 mm connection · 4 bar	EN 16713-1
00716	Ø 1800 mm · 30 m³/h/m² · 76 m³/h · 110 mm connection · 4 bar	EN 16713-1
00722	Ø 1800 mm · 40 m³/h/m² · 101 m³/h · 125 mm connection · 4 bar	EN 16713-1
00728	Ø 1800 mm · 50 m³/h/m² · 125 m³/h · 140 mm connection · 4 bar	EN 16713-1
31988	Ø 1800 mm · 50 m³/h/m² · 125 m³/h · 160 mm connection · 4 bar	EN 16713-1
09213	Ø 2000 mm · 20 m³/h/m² · 62 m³/h · 110 mm connection · 4 bar	EN 16713-1
00717	Ø 2000 mm · 30 m³/h/m² · 94 m³/h · 125 mm connection · 4 bar	EN 16713-1
00723	Ø 2000 mm · 40 m³/h/m² · 125 m³/h · 140 mm connection · 4 bar	EN 16713-1
05132	Ø 2000 mm · 50 m³/h/m² · 157 m³/h · 160 mm connection · 4 bar	EN 16713-1
57812	Ø 2200 mm · 30 m³/h/m² · 114 m³/h · 140 mm connection · 4 bar	EN 16713-1
57813	Ø 2200 mm · 40 m³/h/m² · 152 m³/h · 160 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
Collector · Sand 0.4–0.8 mm (kg)	950	1375	1650	2150	2800	3800	4650
Collector · Silex gravel 1–2 mm (kg)	300	325	450	675	750	1050	1800
Collector · Glass media fine (kg)	550	800	975	1250	1625	2225	2725
Collector · Glass media medium (kg)	275	400	475	625	825	1100	1350
Collector · Glass media coarse (kg)	275	300	400	600	650	925	1575
Nozzle plate · Sand 0.4–0.8 mm (kg)	950	1375	1650	2150	2800	3800	4650
Nozzle plate · Silex gravel 1–2 mm (kg)	150	175	250	300	400	500	600
Nozzle plate · Glass media fine (kg)	650	900	1100	1425	1875	2500	3075
Nozzle plate · Glass media medium (kg)	325	450	550	725	925	1250	1525

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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