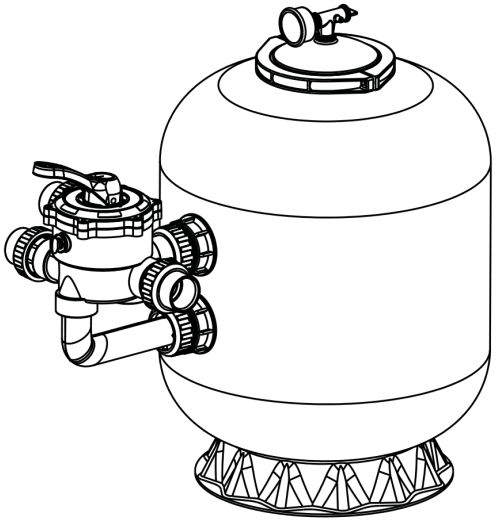
OXYGON

SWIMMING POOL · WATER TREATMENT · HEATING · COOLING



BobbinWound 450-710

Bobbin-Wound / Plastic Sand Filter — Side Mount

Installation & Owner's Manual

Models: Ø450 · Ø535 · Ø635 · Ø710

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1. Safety Warnings

High Pressure

This filter operates under pressure. Pressurised air trapped in the system can blow the lid or valve off and cause serious injury. Never service or unscrew any part while the unit is under pressure — always turn off the pump first.

ALWAYS turn off the pump before changing the control-valve position.

Maximum working pressure: **3.45 bar (50 psi)**. Maximum water temperature: **50 °C**.

Do not unscrew any parts while the unit is operating under pressure.

Clean the pump strainer and skimmer baskets regularly.

Read this manual carefully before installing and using the filter.

2. Technical Specifications

The BobbinWound 450-710 is a residential filament-wound / reinforced-plastic sand filter with a side-mounted 6-way multiport valve. Special filter sand traps dirt as pool water is pumped through the bed.

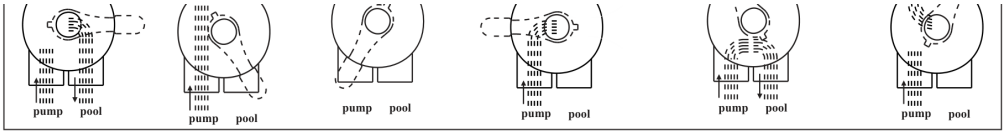
Model	Tank Ø	Height	Valve
BW450	Ø450 mm	676 mm	1½" 6-way
BW535	Ø535 mm	750 mm	1½" 6-way
BW635	Ø635 mm	875 mm	1½" 6-way
BW710	Ø710 mm	880 mm	1½" 6-way

Valve type	Side-mount 6-way multiport (1½")
Tank construction	Bobbin-wound fibreglass / reinforced plastic
Under-drain	Laterals + central distributor
Max. working pressure	3.45 bar (50 psi)
Max. water temperature	50 °C
Filter media	Filter sand

3. How It Works

The filter uses special filter sand as the permanent dirt-removing media. In the FILTER position, pool water is pumped to the top of the tank, down through the sand bed where dirt is trapped, and the cleaned water returns to the pool. Over time the trapped dirt raises the pressure and reduces flow — that is when the filter must be back-washed (see Section 4).

4. Control Valve Positions



WARNING

The six valve positions

Position	Function	Water path
FILTER	Normal filtration	Pool → pump → filter (top→down) → pool
BACKWASH	Clean the sand bed	Pool → pump → filter (reversed) → waste
RINSE	Settle the sand after backwash (30–60 s)	Pool → pump → filter (top→down) → waste
RECIRCULATE	Bypass the filter	Pool → pump → valve → pool
WASTE	Drain / lower water level	Pool → pump → waste (bypasses filter)
CLOSED	No flow — pump OFF	Stop the pump before selecting CLOSED

Important

Stop the pump before changing the valve position.

5. Installation

5.1 Positioning & Sand Loading

Place the filter on a level surface with adequate drainage, as close to the pool as possible. Only simple tools and pipe sealant are required.

Remove the control valve; cap the internal pipe so sand cannot enter it.

Fill the tank about half-full of water to cushion the laterals, then pour in the correct amount and grade of filter sand — keep the centre pipe centred. Level the sand to about the middle of the tank; remove the cap.

Re-fit the control valve with its O-ring, so the centre pipe slides into the hole in the valve base.

5.2 Plumbing

Fit two plastic clamps around the valve and tank flanges; tighten just enough to rotate the valve for final positioning.

Screw the pressure gauge (with O-ring) into the tapped hole — do not over-tighten.

Connect the pump to the valve port marked PUMP and the pool return to the port marked RETURN. Complete all other plumbing.

Adapter unions are recommended for easier maintenance. Check all connections for leaks.

6. Start-up & Maintenance

6.1 First Start-up

Confirm the correct sand quantity is loaded and all connections are secure.

Push down the valve handle and set to **BACKWASH**; start the pump and flush until fine sand/impurities clear.

Stop the pump → set to **RINSE** → run 30–60 s until the sight glass is clear.

Stop the pump → set to **FILTER** → start the pump. Note the initial clean-pressure reading.

6.2 Routine Maintenance

Backwash when the pressure rises **1–1.5 bar** above the initial clean reading, or when flow noticeably drops (BACKWASH 2–3 min → RINSE 30–60 s → FILTER).

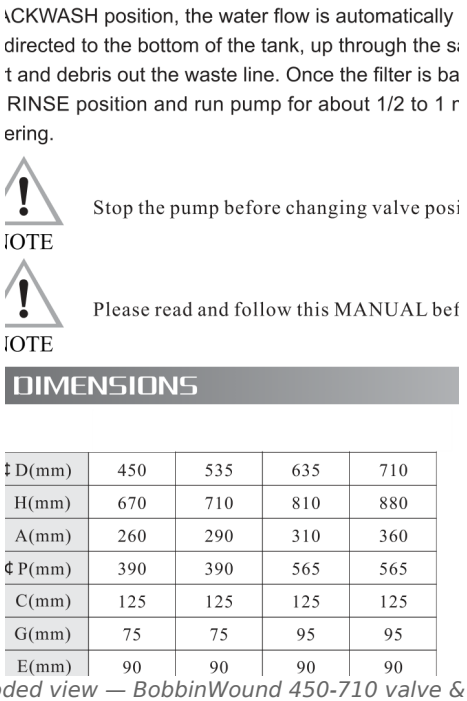
Clean the pump strainer and skimmer baskets regularly.

Replace the filter sand every 3–5 years depending on use.

Lubricate the valve and lid O-rings with proper O-ring lubricant.

Winter: fully drain the filter, remove the drain plug and store in a frost-free place.

7. Spare Parts


ACKWASH position, the water flow is automatically
directed to the bottom of the tank, up through the s
t and debris out the waste line. Once the filter is ba
RINSE position and run pump for about 1/2 to 1 r
ering.

Stop the pump before changing valve posi
IOTE

Please read and follow this MANUAL bef
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DIMENSIONS

D(mm)	450	535	635	710
H(mm)	670	710	810	880
A(mm)	260	290	310	360
P(mm)	390	390	565	565
C(mm)	125	125	125	125
G(mm)	75	75	95	95
E(mm)	90	90	90	90

Exploded view — BobbinWound 450-710 valve & tank

Main replaceable parts: multiport valve handle & rotor, valve O-rings, spider gasket, body diffuser, pressure gauge / sight glass, bulkhead fittings & O-rings, laterals, water distributor and drain plug. Quote the model when ordering.

8. Warranty & Contact

The BobbinWound 450-710 filter is covered against manufacturing defects in materials and workmanship under OXYGON's standard limited warranty. The warranty covers product quality only and does not include the filter sand, wear of O-rings/gaskets, or damage caused by operating over 3.45 bar / 50 °C, freezing, or changing the valve with the pump running.

Keep this manual and the purchase document as your warranty certificate.

Repairs or replacements during the warranty period are carried out by OXYGON or an authorised service agent.

For service, provide the model and a description of the fault to speed up assistance.

Contact Information

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ISO Certifications

9001:2015 Quality Management *EUROCERT*	**14001:2015** Environmental Management *BQV*	**45001:2018** Health & Safety *BQV*
22301:2019 Business Continuity *EUROCERT*	**46001:2019** Water Efficiency *BQV*	

Recycling of materials must be carried out in accordance with applicable regulations.