



# WaterBoost



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ATX-450

450 Litre Whole-House Mains Pressure Booster

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Part No. **ATX-450**

**45 L/min**

Peak burst flow

**3.2 bar**

Max pressure

**270 L**

Useable capacity

**40 dB(A)**

Noise level

**WiFi**

DConnect app

**5 / 3 yr**

Tank / pump warranty

## OVERVIEW

The WaterBoost ATX-450 is the highest-capacity all-in-one whole-house mains pressure booster in the ATX range. It connects directly to the incoming cold water mains and combines a 450-litre sealed accumulator vessel with a variable speed inverter pump in a single compact unit — automatically boosting both pressure and flow the moment a tap opens.

Peak burst flow of up to 45 L/min, sustained 36 L/min at 3.2 bar for up to 11 minutes. No break tank, no overflow, just 2 water connections. WiFi via the DConnect app for remote monitoring.

## KEY FEATURES

- Variable speed inverter — only boosts the shortfall
- 450 L sealed vessel · 270 L useable capacity
- Fully sealed — zero air contact with stored water
- No break tank, no overflow — just 2 connections
- Multi-directional ports — connect from left or right
- Quiet operation — rated 40 dB(A)
- WiFi · DConnect app · on-unit HMI display
- Dry run protection + anti-seize function
- 30-second pump swap via 2-clip dock
- WRAS approved — potable water suitable
- Completely maintenance free

## WHAT'S INCLUDED

<b>Unit:</b>	ATX-450 — pump & vessel pre-assembled
<b>Bypass:</b>	Integral 2-clip maintenance bypass
<b>Control:</b>	On-unit HMI + WiFi DConnect app
<b>Guide:</b>	Installation & maintenance manual

## TECHNICAL SPECIFICATIONS

Model	<b>ATX-450</b>
System type	<b>Integrated accumulator booster</b>
Accumulator capacity	<b>450 L total · 270 L useable</b>
Peak burst flow	<b>Up to 45 L/min</b>
Sustained flow	<b>36 L/min @ 3.2 bar · 11 min</b>
Continuous flow	<b>12 L/min @ 3.0 bar</b>
Max pressure	<b>3.2 bar</b>
Pump type	<b>Variable speed inverter</b>
Noise level	<b>40 dB(A)</b>
Water connections	<b>2 × ¾" BSP male multi-dir.</b>
Connectivity	<b>WiFi · DConnect app · HMI</b>
Sealed system	<b>Yes — no overflow required</b>
Dry run protection	<b>Built in</b>
Anti-seize function	<b>Automatic</b>
Maintenance bypass	<b>2-clip · &lt; 30 seconds</b>
Approval	<b>WRAS approved</b>
Warranty	<b>5 yr tank · 3 yr pump</b>

## IDEAL FOR

- 4+ bedroom homes and high-demand properties
- Three or more bathrooms in regular simultaneous use
- Combi-boiler and unvented hot water cylinder systems
- Where a sealed, hygiene-managed circuit is required





## HOW IT WORKS — TWO-PHASE OPERATION

### PHASE 1 — STORED VOLUME

#### Instant high-flow boost

# 36 L/min @ 3.2 bar

Sustained for up to 11 minutes

Delivered directly from the pre-charged accumulator vessel the moment an outlet opens. Sufficient for three or more showers running simultaneously — highest capacity in the range.

### PHASE 2 — CONTINUOUS MAINS

#### Sustained boosted flow

# 12 L/min @ 3.0 bar

Continuous — no drop-off

Once stored volume is used, the pump continues to boost directly from mains. When demand stops, the vessel recharges automatically ready for the next burst.

- 1 Cold mains feeds directly into the ATX — no break tank or loft tank required.
- 2 A pressurised 450 L accumulator stores water ready to release the instant an outlet opens.
- 3 The variable speed pump monitors mains pressure and adds only the shortfall to reach target.
- 4 After the stored volume is used, the system continues boosting from mains until demand ends.
- 5 With demand stopped, the accumulator recharges automatically — ready for the next burst.

## ENERGY EFFICIENCY — ONLY BOOSTS THE SHORTFALL

Variable speed inverter technology continuously measures incoming mains pressure and produces only the additional pressure needed to hit the 3 bar target. When mains pressure is already high, the pump works less. When mains pressure drops, the pump compensates — automatically and instantly.

Mains: 1.0 bar

Pump adds 2 bar

Mains 1 bar

Mains is low — the pump does **more** of the work to reach 3 bar.

Mains: 1.5 bar

Pump adds 1.5 bar

Mains 1.5 bar

Balanced — pump and mains share the load equally to hit target.

Mains: 2.0 bar

Pump adds 1 bar

Mains 2 bar

Mains is strong — the pump runs lightly, saving energy.





## ATX RANGE — SIZE GUIDE

Model	Capacity	Useable	Peak flow	Sustained flow	Best for
ATX-150	150 L	90 L	45 L/min	18 L/min @ 3.2 bar · 11 min	1–2 bed homes · entry-level
ATX-200	200 L	120 L	45 L/min	22 L/min @ 3.2 bar · 11 min	2–4 bed · single bathroom
ATX-250	250 L	150 L	45 L/min	24.5 L/min @ 3.2 bar · 11 min	3–4 bed · mid-range
ATX-300	300 L	180 L	45 L/min	27 L/min @ 3.2 bar · 11 min	3–5 bed · extended demand
<b>ATX-450</b>	<b>450 L</b>	<b>270 L</b>	<b>45 L/min</b>	<b>36 L/min @ 3.2 bar · 11 min</b>	<b>4+ bed · highest capacity</b>

★ Highlighted row = ATX-450 (this product). Flow rates are dependent on incoming mains supply. All sizes available at waterboost.co.uk.

## SEALED SYSTEM ADVANTAGE

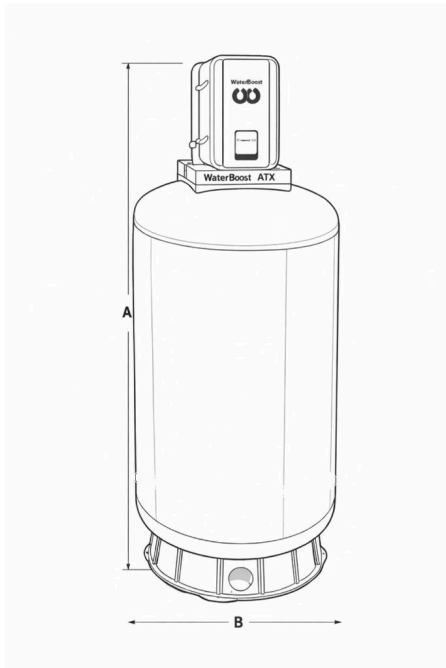
### Open break tank system

- ✗ Open water surface — air, dust and debris can enter
- ✗ Requires periodic tank cleaning and inspection
- ✗ Overflow pipe required — ongoing hygiene risk
- ✗ Static water — Legionella risk management may apply
- ✗ Fixed pump output regardless of mains conditions

### WaterBoost ATX-450

- ✓ Fully sealed vessel — zero air contact with water
- ✓ No open surface, no dust or debris ingress
- ✓ No overflow pipe required
- ✓ WRAS approved — no hygiene management needed
- ✓ Variable speed — only generates the pressure shortfall
- ✓ Maintenance free — no filters, no service visits





### WaterBoost ATX-450

Integrated variable-speed pump and 450 L sealed accumulator vessel in a single compact unit. Direct mains connection — 2 water connections, no overflow.

## KEY DIMENSIONS

A — Overall height	1822 mm
B — Vessel diameter	662 mm
Water connections	2 × 3/4" BSP male · multi-directional
Shipping weight (empty)	~84 kg
In-service weight (filled)	~534 kg

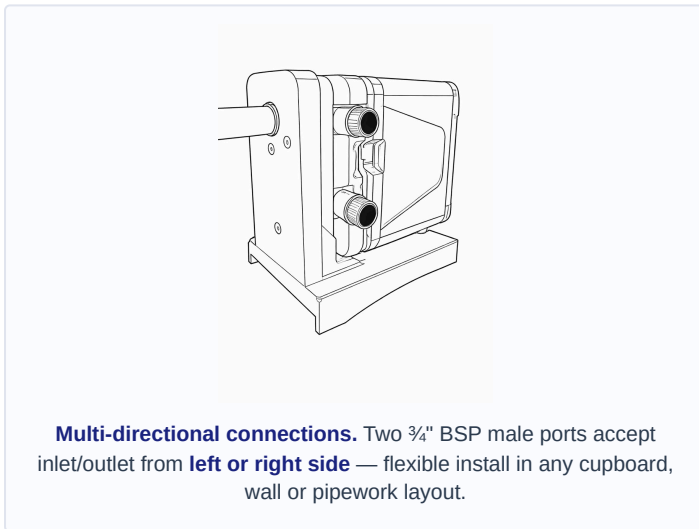
## INSTALLATION CLEARANCE

Above unit (pump access)	150 mm min
Front (dock + bypass access)	300 mm min
Each side	50 mm min

## ATX RANGE — A / B

Model	A (Height)	B (Diameter)	Full kg
ATX-150	1209 mm	532 mm	192
ATX-200	1326 mm	532 mm	248
ATX-250	1498 mm	534 mm	304
ATX-300	1783 mm	534 mm	362
<b>ATX-450</b>	<b>1822 mm</b>	<b>662 mm</b>	<b>534</b>

**NOTE:** All dimensions in millimetres. Filled weights are approximate (vessel capacity × 1.0 kg/L + empty weight). Confirm floor loading before installation.



**Multi-directional connections.** Two 3/4" BSP male ports accept inlet/outlet from **left or right side** — flexible install in any cupboard, wall or pipework layout.

