



WaterBoost

ATX-450 Pure

Anti-Legionella Whole-House Mains Pressure Booster
Freshest-water Flow-Thru™ vessel · 450 Litre



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Part No. **ATX-450-PURE**

80 L/min

PEAK BURST FLOW

3.2 bar

MAX PRESSURE

270 L

USEABLE CAPACITY

40 dB(A)

NOISE LEVEL

WiFi

H2D APP

5 / 3 yr

TANK / PUMP
WARRANTY

OVERVIEW

The WaterBoost ATX-450 Pure is the hygiene-specification version of our highest-capacity all-in-one whole-house mains pressure booster. It connects directly to the incoming cold water mains and combines a 450-litre **Flow-Thru™ anti-Legionella** accumulator vessel with a variable speed inverter pump in a single compact unit — boosting both pressure and flow the moment a tap opens.

A patented internal scoop and water vane constantly recirculate the stored water, so it never stagnates — the freshest water quality possible. Peak burst flow of up to 80 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 H2D App for remote monitoring.

KEY FEATURES

- Flow-Thru anti-Legionella vessel — total recirculation, no stagnation
- Variable speed inverter — only boosts the shortfall
- 450 L vessel · 270 L useable capacity
- Fully sealed — zero air contact with stored water
- No break tank, no overflow — just 2 connections
- 1½" BSP boosted outlet (through-flow vessel)
- Quiet operation — rated 40 dB(A)
- WiFi · H2D 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

TECHNICAL SPECIFICATIONS

Model	ATX-450 Pure
System type	Integrated accumulator booster
Vessel	Flow-Thru anti-Legionella, steel · CAD-2 diaphragm
Accumulator capacity	450 L total · 270 L useable
Peak burst flow	Up to 80 L/min
Sustained flow	36 L/min @ 3.2 bar · 11 min
Continuous flow	12 L/min @ 3.0 bar
Max pressure	3.2 bar
Pump type	Variable speed inverter
Noise level	40 dB(A)
Water connections	2 · 1½" BSP boosted outlet
Connectivity	WiFi · H2D App · HMI
Hygiene	Sealed + Flow-Thru recirculation
Dry run protection	Built in
Anti-seize function	Automatic
Maintenance bypass	2-clip · < 30 seconds
Approval	WRAS approved
Warranty	5 yr tank · 3 yr pump

WHAT'S INCLUDED

Unit:	ATX-450 Pure — pump & Flow-Thru vessel pre-assembled
Bypass:	Integral 2-clip maintenance bypass
Control:	On-unit HMI + WiFi H2D App
Guide:	Installation & maintenance manual

IDEAL FOR

- Discerning homeowners & high-demand 4+ bed homes (3+ bathrooms)
- Landlords, HMOs, care, hospitality & healthcare
- Any property under a Legionella duty (ACoP L8 / HSG274)

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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 Flow-Thru vessel the moment an outlet opens. Peak burst flow up to 80 L/min. 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 Flow-Thru accumulator stores water ready to release the instant an outlet opens — constantly recirculated so it never stagnates.
- 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.



FLOW-THRU™ — HOW IT STAYS FRESH

Stagnation is the enemy of stored water. The patented Flow-Thru design forces fresh water through the vessel every time the system runs, so colonisation cannot establish — the freshest water quality possible.

- 1 Scoop redirects** — incoming water is diverted up into the chamber rather than parking at the inlet.
- 2 Total mix** — the patented water vane drives full recirculation of the chamber: no dead volume, no stagnant pockets.
- 3 Fresh water out** — continuously turned-over water leaves the vessel to the property.

HYGIENE BY DESIGN — HOW THE TIERS COMPARE

Every WaterBoost booster is sealed and beats open storage on hygiene. The Pure goes one step further with active recirculation — the right choice wherever the freshest water or a documented control regime matters.

OPEN BREAK TANK

- ✗ Open water surface — air, dust & debris
- ✗ Static water — Legionella risk management
- ✗ Periodic cleaning & inspection required
- ✗ Overflow pipe required
- ✗ Fixed pump output regardless of mains

STANDARD ATX — SEALED

- ✓ Fully sealed — zero air contact
- ✓ No overflow, no open surface
 - Water can sit static at depth
- ✓ Variable speed — boosts the shortfall
- ✓ WRAS approved

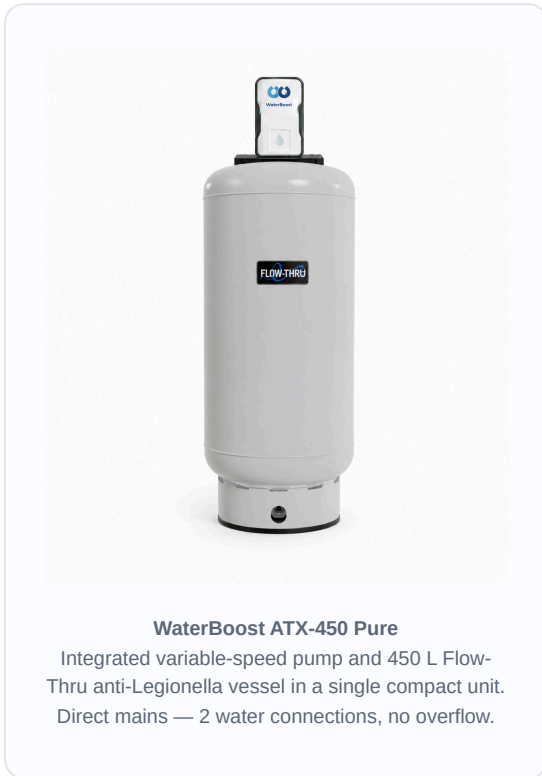
ATX-450 PURE — FLOW-THRU

- ✓ Sealed AND constantly recirculated
- ✓ No static or stagnant volume
- ✓ Anti-Legionella by design
- ✓ Freshest water quality possible
- ✓ WRAS approved · maintenance free

The standard ATX remains an excellent sealed system for most homes. The Pure is specified wherever the freshest possible water, or a documented Legionella control regime, is the priority. The Pure supports your water-hygiene management but does not replace a competent Legionella risk assessment, which remains the duty-holder's responsibility.



KEY DIMENSIONS



A — Overall height	1822 mm
B — Vessel diameter	662 mm
Water connections	2 · 1¼" BSP boosted outlet
Shipping weight (empty)	~84 kg
In-service weight (filled)	~340 kg

INSTALLATION CLEARANCE

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

THROUGH-FLOW CONNECTION

The Flow-Thru vessel is plumbed through-flow — service water passes in one port and out the other (1¼" BSP boosted outlet) so the stored volume is continuously recirculated during normal use.

ATX RANGE — A / B

Model	A (Height)	B (Diameter)	Capacity	Useable
ATX-150	1209 mm	532 mm	150 L	90 L
ATX-200	1326 mm	532 mm	200 L	120 L
ATX-250	1498 mm	534 mm	250 L	150 L
ATX-300	1783 mm	534 mm	300 L	180 L
ATX-450	1822 mm	662 mm	450 L	270 L
ATX-450 Pure	1822 mm	662 mm	450 L	270 L

All dimensions in millimetres. The ATX-450 Pure shares the ATX-450 chassis, fitted with the Flow-Thru™ anti-Legionella vessel; in-service (filled) weight ~340 kg (Flow-Thru acceptance volume + vessel). Confirm floor loading before installation. Minor dimensional variations may occur.