WaterBoost

ATX-170 Pure

Anti-Legionella Whole-House Mains Pressure Booster

Freshest-water Flow-Thru™ vessel · 170 Litre

Part No. **ATX-170-PURE**

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80 L/min	3.2 bar	102 L	40 dB(A)	WiFi	5 / 3 yr
PEAK BURST FLOW	MAX PRESSURE	USEABLE CAPACITY	NOISE LEVEL	H2D APP	TANK / PUMP WARRANTY

OVERVIEW

The WaterBoost ATX-170 Pure is the hygiene-specification version of our mid-range all-in-one whole-house mains pressure booster. It connects directly to the incoming cold water mains and combines a 170-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 20 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
- 170 L vessel · 102 L useable capacity
- Fully sealed — zero air contact with stored water
- No break tank, no overflow — just 2 connections
- 1¼" 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-170 Pure**
System type	**Integrated accumulator booster**
Vessel	**Flow-Thru anti-Legionella, steel · CAD-2 diaphragm**
Accumulator capacity	**170 L total · 102 L useable**
Peak burst flow	**Up to 80 L/min**
Sustained flow	**20 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 · 1¼" 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-170 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 & 2-3 bed homes (one or two bathrooms)
- Landlords, HMOs, care, hospitality & healthcare
- Any property under a Legionella duty (ACoP L8 / HSG274)

HOW IT WORKS — TWO-PHASE OPERATION

PHASE 1 — STORED VOLUME

Instant high-flow boost

20 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 two showers running simultaneously — mid-range capacity.

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 170 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-170 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

WaterBoost ATX-170 Pure
Integrated variable-speed pump and 170 L Flow-Thru anti-Legionella vessel in a single compact unit. Direct mains — 2 water connections, no overflow.

A — Overall height	**~1210 mm**
B — Vessel diameter	**533 mm**
Water connections	**2 · 1¼" BSP boosted outlet**
Shipping weight (empty)	**~45 kg**
In-service weight (filled)	**~133 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-170 Pure	**~1210 mm**	**533 mm**	**170 L**	**102 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

All dimensions in millimetres. The ATX-170 Pure uses the 170-litre Flow-Thru™ anti-Legionella vessel (943 mm vessel height); overall height with controller is provisional — confirm on a built unit. In-service (filled) weight ~133 kg. Confirm floor loading before installation. Minor dimensional variations may occur.