

# WaterBoost



AWB-300LV

300 Litre Vertical Accumulator Vessel

Part No. AWB-300LV



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**300 litre**

Storage capacity

**180 litre**

Working capacity

**10 bar**

Max working pressure

**90°C**

Max temperature

**1¼" BSP**

Connection size

**5 yr**

Warranty

## OVERVIEW

The WaterBoost AWB-300LV is a 300 litre vertical accumulator vessel designed to store pressurised water and deliver it on demand, significantly improving flow rates to taps, showers, baths and appliances. It uses a patented CAD-2 diaphragm technology for superior air and water separation, condensation-reducing design, and a non-corrosive water chamber — making it ideal for domestic and light commercial boosting systems.

## KEY FEATURES

- Patented CAD-2 diaphragm technology
- 100% butyl diaphragm — chlorine resistant
- Virgin polypropylene liner — true non-corrosive chamber
- Condensation-reducing design
- Stainless steel 1¼" BSP water connection
- O-ring sealed, leak-free air valve cap
- Two-part polyurethane, epoxy-primed paint finish
- WRAS, CE/PED, ACS, ISO-9001 approved
- No maintenance required
- 5 year warranty

## WHAT'S INCLUDED

- Vessel:** 300 litre vertical accumulator vessel
- Fittings:** 1¼" BSP stainless steel connection elbow
- Air valve:** O-ring sealed, leak-free Schrader valve cap

## IDEAL FOR

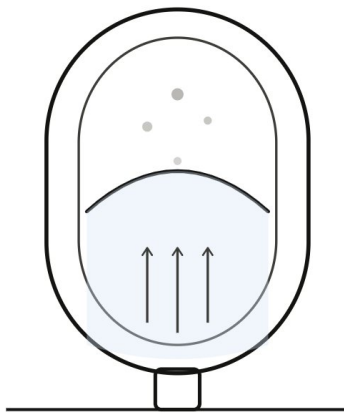
- Properties with low mains flow — 1 to 3 bedroom homes
- Use alongside the WaterBoost ACF1 booster pump for best performance
- Whole-house flow improvement without boosting pressure
- Reducing pump cycling and extending pump life
- Combination boilers, unvented cylinders, showers and taps

## TECHNICAL SPECIFICATIONS

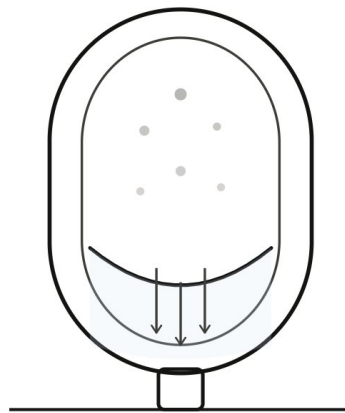
Model	<b>AWB-300LV</b>
Nominal volume	<b>300 litres</b>
Style	<b>Vertical / upright</b>
Diaphragm	<b>CAD-2 patented butyl</b>
Liner	<b>Virgin polypropylene</b>
Shell	<b>Carbon steel</b>
Paint finish	<b>2-part polyurethane / epoxy</b>
Connection	<b>1¼" BSP stainless steel</b>
Max working pressure	<b>10 bar</b>
Max temperature	<b>90°C</b>
Height (A)	<b>1512 mm</b>
Diameter (B)	<b>534 mm</b>
Base diameter (D)	<b>446 mm</b>
Shipping weight	<b>47.17 kg</b>
Approval	<b>WRAS, CE/PED, ACS, ISO-9001</b>
Warranty	<b>5 years</b>



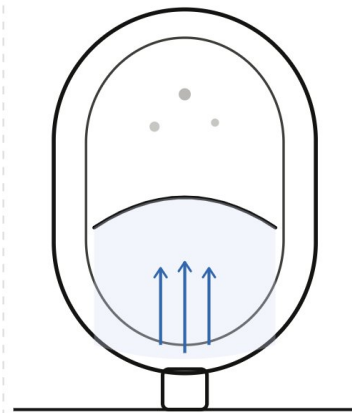
## HOW IT WORKS



1. Before drawdown  
Vessel full — diaphragm pushed up by water



2. During drawdown  
Air pressure pushes water to outlets at high flow



ACF1 pump or mains pressure  
3. Pump comes on  
Refills vessel, ready for next demand

- 1 Mains water fills the accumulator vessel under resting (static) pressure
- 2 When a tap or outlet opens, pressurised water is released instantly from the vessel
- 3 The vessel delivers a full-flow burst before returning to mains supply
- 4 For best results, pair with the WaterBoost ACF1 pump to pre-charge above mains pressure

## SIZING GUIDE

1–2 bedroom home	60 L, 100 L or 200 L	2–3 bedroom home	200 L, 250 L or 300 L
3+ bedrooms	300 L or 450 L	Usable volume rule	Vessel size × 0.6 = usable litres
Example (AWB-300LV)	300 × 0.6 = 180 L usable	Average shower flow	10–12 L/min

## PRE-CHARGE PRESSURE GUIDE



Mains pressure	Air charge (65%)
2.0 bar (30 psi)	1.3 bar
3.0 bar (44 psi)	1.95 bar
3.5 bar (51 psi)	2.275 bar
4.0 bar (58 psi)	2.6 bar
4.5 bar (65 psi)	2.925 bar
5.0 bar (72 psi)	3.25 bar

Set air charge = mains pressure × 0.65



## DIMENSIONS

Size	A (Height)	B (Diameter)	D (Base Ø)	Connection	Max Pressure
60 L	572 mm	407 mm	367 mm	1" BSP	10 bar
80 L	752 mm	407 mm	367 mm	1" BSP	10 bar
100 L	897 mm	407 mm	367 mm	1" BSP	10 bar
130 L	1109 mm	407 mm	367 mm	1" BSP	10 bar
200 L	1055 mm	532 mm	446 mm	1¼" BSP	10 bar
250 L	1227 mm	534 mm	446 mm	1¼" BSP	10 bar
<b>300 L</b>	<b>1512 mm</b>	<b>534 mm</b>	<b>446 mm</b>	<b>1¼" BSP</b>	<b>10 bar</b>
325 L	1166 mm	662 mm	542 mm	1¼" BSP	10 bar
450 L	1551 mm	662 mm	542 mm	1¼" BSP	10 bar

★ Highlighted row = AWB-300LV (this product). All sizes available at waterboost.co.uk

