



WaterBoost

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WB-Compact 4.5 · ACF1

Accumulator Booster Pump

INSTALLATION & TECHNICAL GUIDE

Please read all instructions before installation and operation

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1. PRINCIPLE OF THE ACF1 ACCUMULATOR BOOSTER

How it works

The WB-Compact 4.5 ACF1 booster pump reacts when the mains water pressure falls below the pump's pre-set value. It automatically boosts the pressure to the building's water supply up to 4.5 bar, ensuring consistent performance to all outlets at all times.

Bypass

A full-bore bypass valve can be fitted to enable continued water supply during pump maintenance. It is considered good practice to install full-bore isolating valves on both the inlet and outlet pipework.

Versatility

The ACF1 is a versatile solution for increasing mains pressure when the supply is insufficient. Designed for floor or wall mounted installation, the pump can be positioned independently of an accumulator vessel. It is ideal for unvented cylinders, combination boilers, electric showers, and mixer showers.

ADVANTAGES OF THIS SYSTEM

- Improves flow rates to hot and cold water taps, showers, baths and services up to 12 litres/min
- Flow up to 80 L/min when used with an accumulator vessel
- Pressure and flow from small-bore pipes can be significantly increased
- Silent operation due to variable-speed inverter control
- Wi-Fi enabled — remote control and monitoring via the DAB DConnect app
- Wall or floor mounted — flexible installation options
- Water-cooled motor — reliable and efficient operation
- 3 year manufacturer's warranty
- WRAS approved

2. FURTHER DETAILS & SPECIFICATIONS

- 3 year warranty
- Silent running due to inverter control
- Made in Italy
- Water-cooled motor
- Variable-speed design
- LCD display with pressure adjustment
- Wi-Fi enabled — remote control via smartphone
- Boosts mains water pressure up to 4.5 bar
- Wall or floor mounted options
- WRAS approved



TECHNICAL SPECIFICATIONS

Model	WB-Compact 4.5 (ACF1 Series)
Max delivery pressure	4.5 bar
Max flow rate	12 L/min (80 L/min with accumulator)
Connection size	1" BSP female
Power supply	230V AC 50Hz
Fuse rating	5A
IP rating	IPX4
Control	Variable-speed inverter
Display	LCD with pressure adjustment
Connectivity	Wi-Fi — DAB DConnect app
Voice control	Compatible
Motor cooling	Water cooled
Construction	Made in Italy
Approval	WRAS approved
Weight	14.6 kg
Packing dimensions	300 x 500 x 320 mm
Warranty	3 years

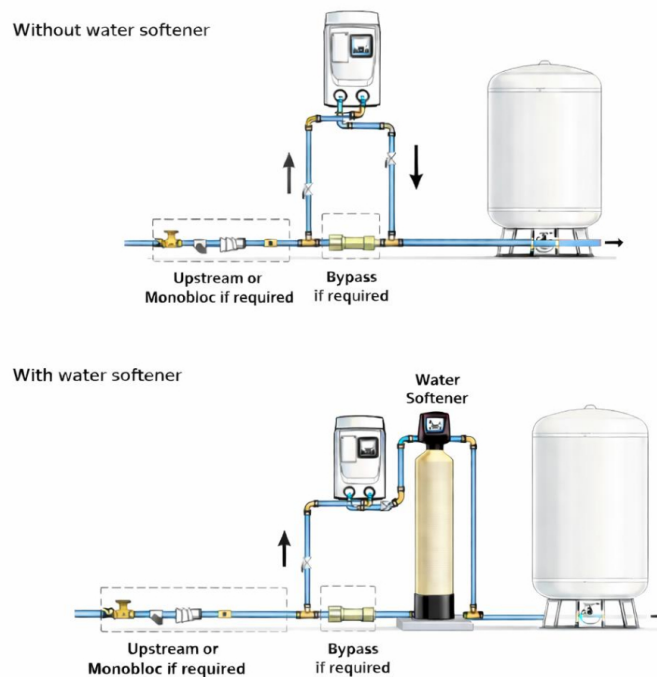
DO'S

- Install the ACF1 directly on the mains water supply pipe
- Fit flexible hoses on the inlet and outlet connections
- Only 1 ACF1 pump can be fitted per mains supply
- Ensure installation complies with IET wiring regulations
- Ensure the pump is protected from frost
- Install full-bore isolating valves on inlet and outlet pipework
- Install a full-bore bypass valve in parallel with the pump
- Ensure the floor can support the weight of the pump (14.6 kg)

DON'TS

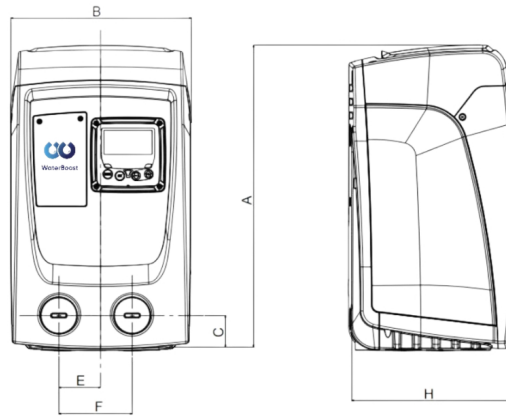
- Never fit the pump to communal risers
- Never fit the pump after a water softener
- Never fit to hot water pipework
- Never fit in a damp or outdoor environment
- Never exceed the maximum torque of 15 Nm on connections
- Never attempt to dismantle the pump internally
- Do not operate without water present at the inlet

4. SYSTEM DIAGRAMS



Note: When used with an accumulator, the pump is installed pre-accumulator on the mains supply. The pump can be positioned independently of the accumulator vessel.

5. DIMENSIONS & CONNECTIONS



A	B	C	D	E	F	G	H
439	263	46	143	60,7	106,7	279,5	236

DIMENSIONAL TABLE

A	B	C	D	E	F	G	H	I	L	M	N	P	Q	R	S	T	V	DNA	DNM	Weight
439	263	46	143	60.7	106.7	279.5	236	40.5	152	46	101.7	140	140	155.5	47.8	133	54.5	1"	1"	14.6 kg

MAINS & ELECTRICAL INFORMATION

Power supply	230V AC, 50Hz, single phase
Fuse	5A
IP rating	IPX4
Connection (inlet)	1" BSP female
Connection (outlet)	1" BSP female
Max torque	15 Nm — do not exceed
Max inlet temp	40°C
Min inlet temp	4°C
Max pressure	4.5 bar

6. LOCATION

The WB-Compact 4.5 ACF1 works on a sealed pressurised system connected directly to the mains water supply. The pump is normally located early in the building's plumbing, before any connections or points of use. When deciding on the location of the pump, consider the following:

- The floor must be able to withstand the weight of the pump (14.6 kg)
- Isolation valves must be installed to enable the supply to and from the pump to be shut off
- The pump must be protected from frost — do not install in unheated outdoor locations
- Allow adequate clearance for pipework connections and maintenance access
- The pump must not be installed in a damp or wet environment (IPX4)

PRESSURE SETTING

The factory default pressure setpoint is 3.0 bar. To adjust the setpoint:

1 View current settings

On the LCD display, the User Menu shows current state, pump speed (RS), voltage pressure (VP), flow (VF), power (PO), current (C1), supply voltage (SV) and temperature (TE).

2 Enter Setpoint Menu

From the User Menu, press MODE + SET simultaneously for 2 seconds. The display will change to the Setpoint Menu showing SP and the current pressure value.

3 Adjust pressure

Use the ▲ or ▼ buttons to increase or decrease the setpoint value. The setpoint can be adjusted between 1.0 bar and 4.5 bar in 0.1 bar increments.

4 Confirm setting

Press SET to confirm and save the new setpoint. The pump will now maintain pressure at the newly selected value.

PRE-CHARGE PRESSURE (P.Air)

The pump has an internal pressure vessel. Factory pre-charge pressure = SetPoint - 1 bar (default: 2 bar).

If the setpoint is changed, adjust P.Air accordingly. Use a tyre pressure gauge on the Schrader valve.

Need help? Contact Anglian Pumping Services



WhatsApp

07464 644 830

waterboost.co.uk

anglianpumping.com