



PRODUCT OVERVIEW

Flowpress WMDA Pressurisation Unit

The **flow**press WMDA is a wall mounted digitally controlled top-up pressurisation unit with a flow rate up to 12 l/min and an 4 litre internal break tank. Ideal for pressure management in domestic, commercial and industrial sealed heating and cooling systems.

Available as a choice of single or twin pump configuration for topping up water using a digital controller and AB type break tank utilising a WRAS approved float valve for back flow protection.

The Flowpress WMDA Pressurisation Units are suitable for systems operating at pressures up to 10 bar and are suitable for use on systems with up to 50% glycol content.

- For system volumes up to 50,000 litres.
- Suitable for wall mounting
- Not restricted by mains pressure
- Fitted with an electronic pressure transducer
- Bright LED Controller with scrolling display messages
- User friendly controls offering common volt free contacts on fault
- 4 Litres Break Tank Capacity with AB Air Gap - Fluid Category 5
- Alarm modes including flood protection alarm
- Flowcare 2 Year 24/7 response warranty available if commissioned

PRODUCT DETAILED OVERVIEW

Flowpress WMDA
Pressurisation Unit



Connections

15mm connection for both the system and mains with a 22mm overflow



Control Panel

User friendly LED controls offering common volt free contacts on fault



Single or Twin Pump Models

Suitably sized electric pump, 230V
50Hz 1ph



Isolating & Drain Valve

$\frac{3}{4}$ " or 1" Expansion Vessel
Combined Drain Off and Isolating
Valve

Selection Details

- Static height of the building above the pressurisation unit (meters)
- Systems content (litres) if unknown provide the boiler power (kW)
- Flow and return temperatures
- Additive content (%)
- Max working pressure

Digital Controller Specification

- Equipment comes with bright LED display scrolling messages including pump operation and alarm modes.
- Neon power on indicator
- Security Password protection for parameter entry.
- WRAS approved break tank AB Weir, Overflow and float valve. Fluid Protection Cat5.
- Electronic pressure transmitter.
- Normally closed, common fault, volt free contact.
- Normally open volt free contacts for high pressure, low pressure, transducer health and pump health x2.
- Flood protection both as maximum pump run limiter in minutes and excessive demand alarm (>3 times in 8 hours), user activated option.
- Event logging for pump start, individual pump run hour's counter, electrical interruption, general alarm activations.
- Pump start differential in 0.1 bar increments.
- Pressure setting and alarm setting in 0.1 bar increments.
- Non overlapping parameter entry.
- Onscreen service reminder option (12 months).
- Pump pulse option (2 second pulse if inactive for 60 days), user activated option.
- System fill option, (Continuous run until set pressure is reached or 24 hours maximum run time, whichever is sooner), user activated option.
- RS 485 Connectivity with MODBUS protocol.
- Variable ID number for installations with multiple pressurisation units.
- System fill mode.

Operating Conditions

- System temperature range at point of connection: 5 °C / 85 °C.
- Ambient temperature range: 5 °C / 40 °C.
- Relative humidity 95% non-condensing.
- Noise Rating Data: < 75dBA.

Material of Construction

- Cabinet: Mild steel CR4 Powder Coated.
- Float: WRAS approved.
- Break Tank: Polypropylene.
- Connection: Brass / Polypropylene.
- Pipework: Braided Flexhose / EPDM / Copper.
- Finish: Powder coated.
- Valves: Brass / PTFE.

MODELS, DIMENSIONS & ELECTRICAL DATA

Flowpress WMDA Pressurisation Unit

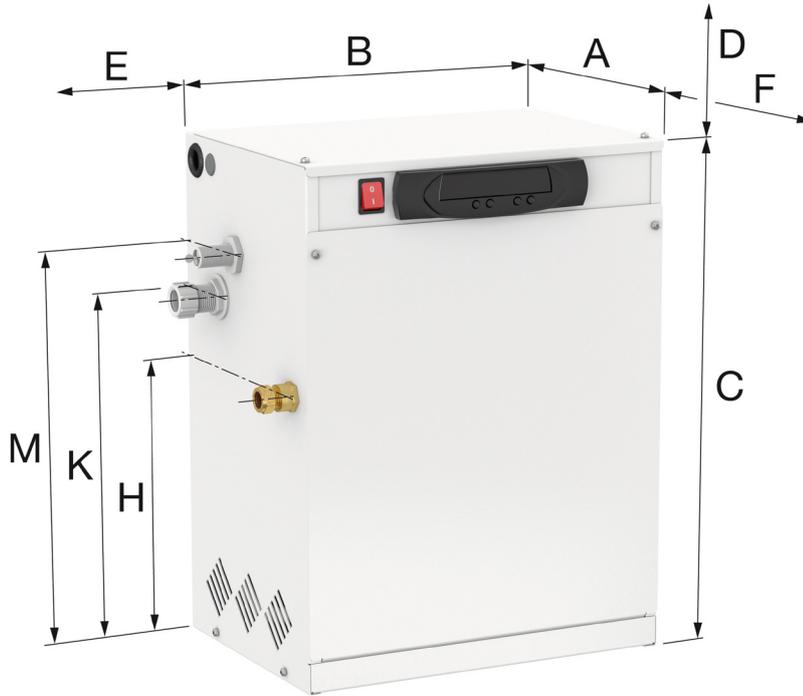
MODEL	Pump	Max Fill Pressure	Dimensions			Connections (mm)			Dry Weight (kg)
			Width	Depth	Height	System	Mains Supply	Overflow	
flow press WMDA 1-1	Single	2.5 Bar	250	160	500	8mm (1/4")	15mm (1/2")	22mm	7.0
flow press WMDA 1-2	Twin	2.5 Bar	250	160	500	8mm (1/4")	15mm (1/2")	22mm	8.0
The above are suitable for use with a maximum boiler output of 60kw on "old" systems or a water content of 2500 litres on new systems.									
flow press WMDA 2-3	Single	2.5 Bar	250	250	490	15mm (1/2")	15mm (1/2")	22mm	17
flow press WMDA 2-4	Twin	2.5 Bar	360	280	490	15mm (1/2")	15mm (1/2")	22mm	32.5
flow press WMDA 3-5	Single	5.0 Bar	360	280	490	15mm (1/2")	15mm (1/2")	22mm	25.5
flow press WMDA 3-6	Twin	5.0 Bar	360	280	490	15mm (1/2")	15mm (1/2")	22mm	42.0

Model	Electrical	Kw Power Consumption	FLC Amps
flow press WMDA 1-1	230V	0.051	0.3
flow press WMDA 1-2	230V	2 x 0.051	0.3
flow press WMDA 2-3	230V	0.37	2.6
flow press WMDA 2-4	230V	2 x 0.37	2.6
flow press WMDA 3-5	230V	0.50	2.6
flow press WMDA 3-6	230V	2 x 0.50	2.6



DIMENSIONAL DRAWINGS & **SCHEMATICS**

Flowpress WMDA
Pressurisation Unit



Dimensions measured in mm - NOT TO SCALE



flowtech[®]
WATER SOLUTIONS

flowzone[®]

MEMBERS AREA

This section of the **flowtech**[®] website holds information exclusively for members. Members will need to log in to gain access to these pages.

Our member's will be granted exclusive access to our **flowview**[®] technical resource library. Within this resource is a wide range of product information including data sheets, technical drawings, O&M Manuals and training videos



flowcare[®]

AFTER SALES SERVICE

At **flowtech**[®] we operate a network of Service Engineers located throughout the UK who are supported by our offices located in Greater Manchester. The distribution of engineers means that in the majority of cases we are less than 4 hours away from attending a customer call out.

We place great emphasis on providing technical back up to support our Service Engineers in resolving some difficult operational and technical issues. We pride ourselves on completing a project on time, within budget and never leaving a problem unresolved, or a customer waiting. This quality of service has made us the first choice for our customers.

FOR FURTHER INFORMATION OR ASSISTANCE

contact us

Flowtech Water Solutions are experts in water services and water booster sets. We have continuously supplied a wide range of standard and custom products since being founded in 1996.

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