

flowpress[®]

Watchman Range

Twin Pump Pressurisation Unit

DATA SHEET

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Revision Date:



PRODUCT OVERVIEW

Flowpress Watchman Pressurisation Unit

The **flow**press Watchman is a floor standing digitally controlled pressurisation, vacuum degassing and additive dosing unit for use on sealed systems in order to provide a minimum system pressure requirement, effective dissolved gas removal and adding additives to the system. The correct fluid mix is blended on demand at the time of system top-up. Ideal for pressure management in domestic, commercial and industrial sealed heating and cooling systems.

Fluid is sampled from the system, isolated and subjected to a full vacuum. All dissolved air within the sample is vented to atmosphere. The deaerated fluid is then reintroduced to the system. A turbo mode is available for initial system setup to allow for rapid deaeration of new installations.

Available in 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.

- For system volumes up to 300,000 litres.
- Suitable for floor standing
- 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
- Mix ratios from 1% to 50% user configurable balancing valves.
- Flowcare 2 Year 24/7 response warranty available if commissioned

PRODUCT DETAILED OVERVIEW

Flowpress Watchman Pressurisation Unit



Twin Pump

Available with double pump (for duty/standby configuration). With a flow rate up to 18 l/min.



Control Panel

User friendly LED controls offering real-time display shows the status of the mechanical components.



Additional Tank

4 litre mains break tank and 18 litre additional tank for either glycol or additive



Isolating & Drain Valve

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 / 70 °C.
- Ambient temperature range: 5 °C / 40 °C.
- Relative humidity 95% non-condensing.

Material of Construction

- Cabinet: Mild steel CR4 Powder Coated.
- Float: WRAS Approved Beta Side Entry.
- Break Tank: WRAS Approved Polypropylene..
- Connection: Brass / Polypropylene.
- Cylinder: Stainless steel 304.
- Pipework: Braided Flexhose / EPDM / Copper.
- Finish: Powder coated.
- Valves: Brass.

MODELS, DIMENSIONS & ELECTRICAL DATA

Flowpress Watchman Pressurisation Unit

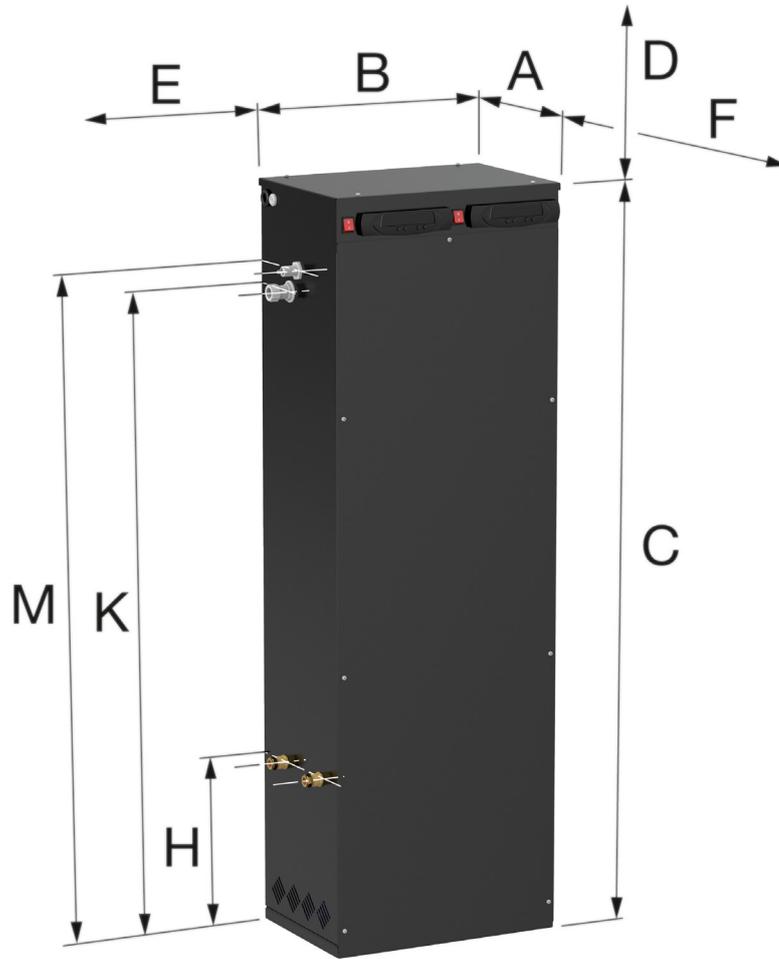
MODEL	Pump	Operating Pressure	Dimensions			Connections (mm)			Dry Weight (kg)
			Width	Depth	Height	System	Mains Supply	Overflow	
flowpress Watchman 0502	Twin	1 - 6 Bar	480	320	1480	15mm (½")	2 x 15mm (½")	22mm	63
flowpress Watchman 1602	Twin	8 - 16 Bar	470	660	1090	15mm (½")	2 x 15mm (½")	22mm	92

MODEL	Phase	Power Consumption [kW]	Full Load Current [A]
flowpress Watchman 0502	Single	2 x 0.50	2 x 3.4
flowpress Watchman 1602	Three	2 x 2.2	2 x 3.4



DIMENSIONAL DRAWINGS & **SCHEMATICS**

Flowpress Watchman
Pressurisation Unit



Dimensions measured in mm - NOT TO SCALE



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WATER SOLUTIONS

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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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