

Compact and totally enclosed digital pressurisation units with electronic pressure transducer and user-friendly microprocessor for use on sealed system in order to provide a minimum system pressure requirement.

The Pro PDm is a wall mounted, flow rate (up to 12 l/min) top-up pressurisation unit with 4 litre internal break tank. Ideal for Industrial, commercial or large domestic applications. Available preset to 1.0 bar, 1.5 bar, 2.0 bar or 2.5 bar topup (Delivery) pressure).

Application:

- Commercial, Industrial and Residential.

**System Volume (Guide): < 50,000 litres.**

### Advantages

Product Features

- For system volumes up to 50,000 litres.
- Dry Run Protection.
- Anti-Seize Routine (Pump is pulsed for 2 seconds if inactive for 60 days, must be enabled at time of commissioning).
- Pressure setting in 0.1 bar increments.
- Self venting pumps and preset options to remove the need for conventional commissioning of the Pressurisation Unit.
- Preset to facilitate a plug and play installation.
- Electric pump, 230V 50Hz 1ph.
- Colour: Grey (RAL 7016).
- System fill mode.
- Onscreen Service Reminder - 12 Months.
- MODBUS RTU Communication Protocol.
- Password protected.
- Bi-directional programming menu.
- Flood Protection (Pump Runtime Limiter, Excessive Start Alarm).
- Pump pulse option.
- Event logging: Alarm activations, Pump Run counter (activations per pump), Cumulative run timer (hours per pump), Electrical interruption.
- Volt free contacts: Common Alarm (N/C), High Pressure Alarm (N/O), Low Pressure Alarm (N/O), Sensor Health (N/O), Pump 1 Health (N/O), Pump 2 Health (N/O).
- Optional Additional Volt Free Contacts (Requires an additional factory fitted expansion board): Low Pressure Warning (N/O), High Pressure Warning (N/O), Low Water In Break Tank (N/O), Low Additive In Holding Tank (N/O), Pump 1 Run For Topup (N/O), Pump 2 Run For Topup (N/O).



### Technical Specifications

#### Operating Conditions:

- System temperature range at point of connection: 5 °C / 85 °C.
- Ambient temperature range: 5 °C / 40 °C.
- Pressure rating: PN 10.
- Relative humidity 95% non-condensing.
- Noise Rating Data: < 75 dBA.

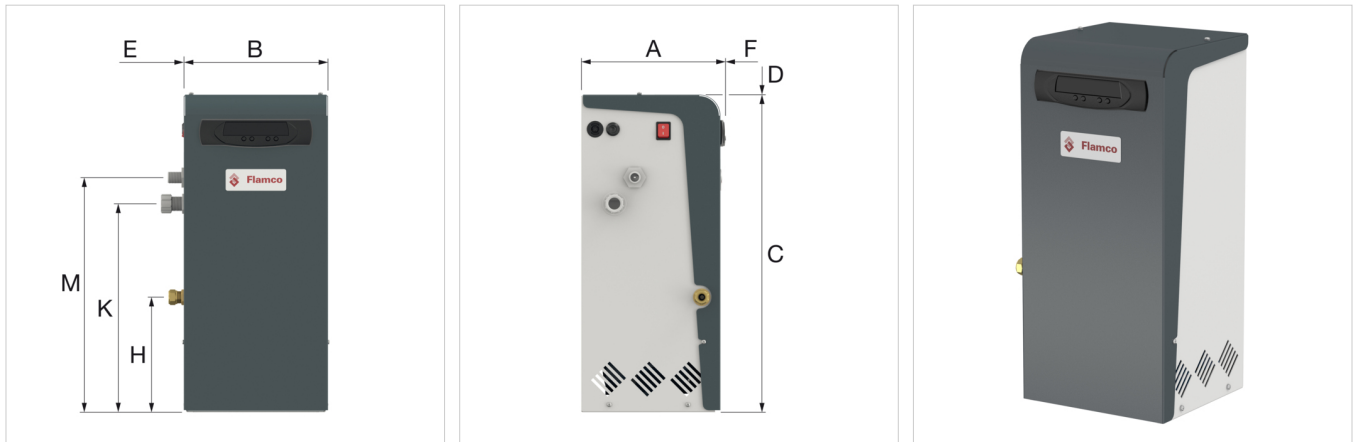
#### Certifications and Standards Applied:

- PED 2014/68/EU Sound Engineering Practice.
- IEE - Electrical Safety Guidance.
- EMC 2004/108/EC.
- BS 7074 Parts 1 to 3.
- Machinery Directive 2006/42/EC.v  
Electronic Components have been tested and comply with the EMC Directives.
- EN 61000-6-2: Generic Standards – Immunity standard for industrial environments.
- EN 61000-6-3: Generic Standards – Emission standard for residential, commercial and light industrial environment.
- CE marked components, where applicable.
- WRAS approved float valve to BS1212.
- IP54 (BS EN60529) rated controller.

#### Material of Construction:

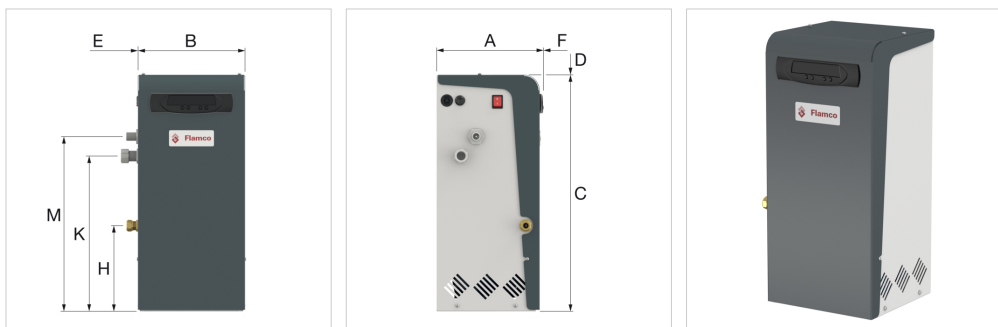
- Cabinet: Mild steel CR4 Powder Coated.
- Float: WRAS approved.
- Break Tank: Polypropylene.
- Connection: Brass / Polypropylene.
- Pipework: Braided Flexhose / EPDM / Copper.
- Valves: Brass / PTFE.

Description	Pro PDm 1.0	
Order Code	21617	
GTIN	08712874216174	
Model	<u>Pro PDm</u>	
Pump quantity	1	
Connections	System [mm]	15 ( $\frac{1}{2}$ " )
	Mains Supply [mm]	15 ( $\frac{1}{2}$ " )
	Overflow [mm]	22
Max. Delivery Pressure [bar]	2.5	
Power Consumption [kW]	0.41	
Preset Settings	Cold Fill [bar]	1.0
	Low Alarm [bar]	0.5
	High Alarm [bar]	2.7
Weight [kg]	17	



### Dimensions Pro PDm

Type	Dimensions								
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	H [mm]	K [mm]	M [mm]
Pro PDm 1.0 - 2.5	240	250	550	800	150	500	200	360	400



### Find more information online:

[Operation and maintenance instructions Pro PU, Pro PUm, Pro PDm](#)

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Flow of Innovation

21617 - Pro PDm 1.0

Product Data Sheet 2022/06/16

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