

Product Data Sheet (2021-08-24)

PressDS Plus

Compact, totally enclosed combined digital pressurisation units. System fluid is sampled from the system, isolated and subjected to a full vacuum. All dissolved air within the sample is liberated in accordance with Henry's Law and vented to atmosphere. The deaerated fluid is then reintroduced to the system. This process is automatically repeated and controlled with a digital processor. A turbo mode is available for initial system setup to allow for rapid deaeration of new installations. The real-time display shows the status of the mechanical components.


The PressDS Plus (Pressurisation/Degassing/Dosing System) is a compact, totally enclosed combined digital pressurisation unit with vacuum degasser and additive tank 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.

System Volume (Guide): < 300,000 litres.

Application:

- Commercial.



| Type | Pump quantity | Pressure rating [PN] | Connections | | | Max. Delivery Pressure [bar] | Operating Pressure [bar] | Power Consumption [kW] | Full Load Current [A] | Weight [kg] |  | Order Code |
|---------------------------|---------------|----------------------|-------------|-------------------|---------------|------------------------------|--------------------------|------------------------|-----------------------|-------------|---|------------|
| | | | System [mm] | Mains Supply [mm] | Overflow [mm] | | | | | | | |
| PressDS Plus 250D | 2 | 10 | 15 (1/2") | 2 x 15 (1/2") | 22 | 6.0 | 1 - 6 | 2 x 0.5 | 2 x 3.4 | 63 | 1 | 45102 |
| PressDS Plus 2160D | 2 | 16 | 15 (1/2") | 2 x 15 (1/2") | 22 | 16 | 8 - 16 | 2 x 2.2 | 2 x 3.4 | 92 | 1 | 45120 |

| Type | Dimensions | | | | | | | | |
|---------------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | H [mm] | K [mm] | M [mm] |
| PressDS Plus 250D | 320 | 480 | 1480 | 500 | 150 | 800 | 340 | 1270 | 1320 |
| PressDS Plus 2160D | 660 | 470 | 1090 | 500 | 150 | 800 | 370 | 690 | 740 |

Advantages

Product Features:

- For system volumes up to 300,000 litres.
- Fluid Protection Category 5 (AB Weir Overflow).
- Onscreen Service Reminder - 12 Months. Onscreen message when additive tank is empty.
- Individual controllers for pressurisation and degassing function.
- Vacuum degassing, turbo and normal interval modes.
- 18 litre additive tank.
- Mix ratios from 1% to 50% user configurable balancing valves.
- Top-up pressurisation unit (<18.0 l/min).
- Electric pump, 230V 50Hz 1ph (2160D: 415V 50Hz 3ph).
- Colour: Black (RAL 9005).
- MODBUS RTU Communication Protocol.
- System fill mode.
- Password protected.
- Pressure setting in 0.1 bar increments.
- Sequential programming menu.
- Pump pulse option.
- Flood Protection (Pump Runtime Limiter, Excessive Start Alarm).
- 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: 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 / 70 °C.
- Ambient temperature range: 5 °C / 40 °C.
- Relative humidity 95% non-condensing.

Certifications and Standards Applied:

- PED 2014/68/EU Sound Engineering Practice.
- IEE - Electrical Safety Guidance.
- EMC 2004/108/EC.
- BS7074 Parts 1 to 3.
- Machinery Directive 95/16/EC.
- Electronic Components have been tested and comply with the EMC Directives.
- EN61000-6-2: Generic Standards – Immunity standard for industrial environments.
- EN61000-6-3: Generic Standards – Emission standard for residential, commercial and light industrial environment.
- CE marked components, where applicable.
- WRAS approved float valve to BS1212 part 2.
- IP54 (BS EN60529) rated controller.

Material of Construction:

- Cabinet: Mild steel CR4.
- Float: WRAS Approved Beta Side Entry.
- Break Tank: WRAS Approved Polypropylene.
- Cylinder: Stainless steel 304.
- Pump: PEDROLLO (Unit dependant. See pump details for more information).
- Valves: Brass.
- Connection: Brass / Polypropylene.
- Pipework: Braided flexihose / EPDM / Copper.
- Finish: Powder coated.

Find more information online:

[Installation and operating instructions](#)

[REVIT Collection Pressurisation Units](#)

[DXF Collection Pressurisation Units](#)

[STEP Collection Pressurisation Units](#)

[Collection Pressurisation Units IGES](#)

[PressDS Plus STEP](#)

[PressDS Plus RFA](#)

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[Spare parts list](#)

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