

# 3760 PRODOSE VDG (3 IN 1 DIGITAL PRESSURISATION, VACUUM DEGASSER AND DOSING) PRESSURISATION UNITS | DATA SHEET

File No: 37.8507UK  
Date: DECEMBER 21, 2022  
Supersedes: NEW  
Date: NEW

## OVERVIEW

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. 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 and effective dissolved gas removal whilst maintaining the system fluid balance. The correct fluid mix is blended on demand at the time of system top-up.

## APPLICATION

Commercial, Industrial and Residential.

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

## ADVANTAGES

### Product Features

- For system volumes up to 300,000 litres.
- Break Tank Capacity: 4 litres.
- Additive Tank Capacity: 20 litres.
- Pump: WRAS Approved / Insulation Class F.
- Floor mounted pressurisation, dosing and degassing unit.
- Available with double pump (for duty/standby configuration).
- Dry Run Protection.
- Anti-Seize Routine (Pump is pulsed for 2 seconds if inactive for 60 days, must be enabled at time of commissioning).
- Electric pump, 230V 50Hz 1ph.
- Colour: Red (RAL 440-5).
- System fill mode.
- Password protected.
- Bi-directional programming menu.
- Onscreen Service Reminder - 12 Months.

- MODBUS RTU Communication Protocol.
- Flood Protection (Pump Runtime Limiter, Excessive Start Alarm).



- Pressure setting in 0.1 bar increments.
- 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 / 70 °C.
- **Ambient temperature range:** 5 °C / 40 °C.
- **Pressure rating:** PN 10.
- Max. Turbo Runtime: 168 hours (1 week).

2

- Max. Normal Downtime: 180 minutes (3 hours).
- Volt Free Contacts: Common Fault Contact.
- 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 Part 2.
- IP54 (BS EN60529) rated controller.

**Material of Construction:**

- **Cabinet:** Mild steel CR4 Powder Coated.
- **Float Valve:** WRAS Approved.
- **Break Tank:** Polypropylene.
- **Cylinder:** Stainless steel 304.
- **Valves:** Brass. or Valves: Brass / PTFE.
- **Connection:** Brass / Polypropylene.
- **Pipework:** Braided Flexhose / EPDM / Copper.

<b>Description</b>	3760 ProDoseVDG 2MP floorstanding 3in1 dosing, degassing PU
<b>Order Code</b>	9979040-022
<b>Model</b>	3760 ProDose vDG 2MP
<b>Pump quantity</b>	2
<b>Pressure rating [PN]</b>	10
<b>Connections</b>	System (mm) - 2 x15 (½")
	Mains Supply (mm) - 15 (½")
	Overflow (mm) - 22
<b>Max. Delivery Pressure (bar)</b>	6
<b>Power Consumption (kW)</b>	2 x0.5
<b>Full Load Current (A)</b>	6.8

TORONTO  
+1 416 755 2291

BUFFALO  
+1 716 693 8813

DROITWICH SPA  
+44 121 550 5333

MANCHESTER  
+44 161 223 2223

BANGALORE  
+91 80 4906 3555

SHANGHAI  
+86 21 5237 0909

BEIJING  
+86 21 5237 0909

SÃO PAULO  
+55 11 4785 1330

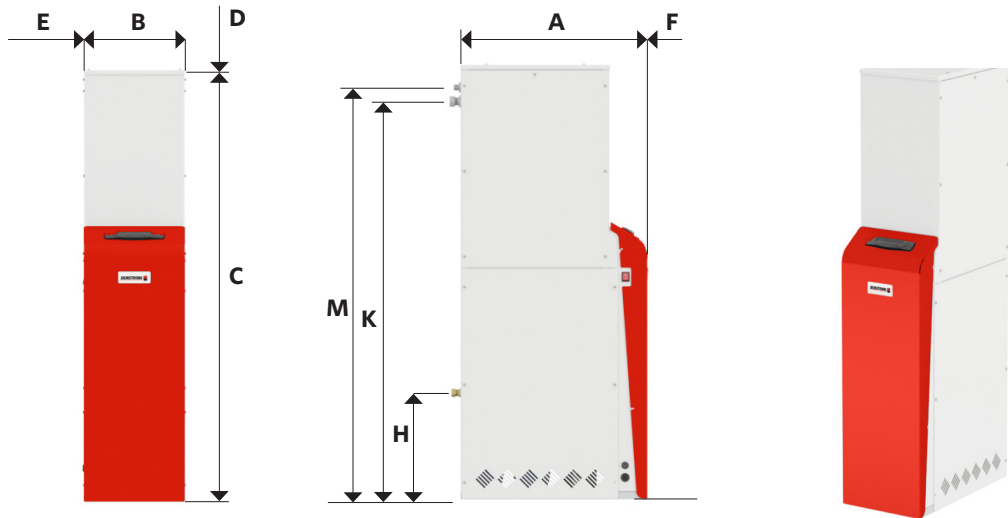
LYON  
+33 4 26 83 78 74

DUBAI  
+971 4 887 6775

MANNHEIM  
+49 621 3999 9858

JIMBOLIA  
+40 256 360 030

**DIMENSIONS**



Type	DIMENSIONS (MM)								
	A	B	C	D	E	F	H	K	M
<b>3760 ProDose vDG 2MP</b>	633	325	1390	500	500	500	340	1270	1315