

Description:

Compact, totally enclosed combined digital pressurisation unit with vacuum degasser for use on sealed systems in order to provide a minimum system pressure requirement and effective dissolved gas removal.



Features

- System quick-fill mode
- Password protection for parameter entry
- Pressure settings in 0.1 bar increments
- Service reminder option (12 months).
- Pump pulse option (2 second pulse if inactive for 60 days)
- Flood protection options
- Event logging for pump start, individual pump run hours counter, electrical interruption and common alarm.
- Volt free contacts for common fault, high pressure, low pressure, pump fault, pressure transducer. (Top-up controller only)
- Individual controllers for pressurisation and degassing function
- Vacuum degassing, turbo and normal interval modes
- Break tank with type AB Air Gap Fluid Cat 5

Application of Use:

- Commercial, industrial, residential (flats)

Certifications and Standards Applied:

- PED 97/23/EC Sound Engineering Practice
- IEE - Electrical Safety Guidance
- EMC 2004/108/EC
- BS7074 Parts 1 to 3
- Machine Directive 2006/42/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
- IPX5 (BS EN60529) Rated Pump / insulation: Class F

Water Regulations:

- Complies with water regulations 1999 when installed and used correctly.
- Type AB air gap provide protection from Fluid Category 5 backflow protection.
- Calculation of air gap based on Weir airflow
- Complies to EN13077:2008

Maximum Operating Conditions:

- Maximum system temperature at the point of connection 70°C
- Ambient temperature up to 45°C
- Relative humidity 95% non-condensing

Selection Details: As per BS7074 Parts 1 to 3

- Static Height of the building above the pressurisation unit (meter)
- Systems content (litres) If unknown provide the boiler power (Kw) which can be used to estimate the systems content
- Flow and return temperatures
- Glycol content (%) if required
- Max working pressure

Material of Construction:

- Cabinet: Mild steel CR4
- Float: WRAS Approved Beta Side Entry
- Break Tank: WRAS Approved Polypropylene
- Pump: Cast Iron volute & Brass impeller
- Pump: WRAS Approved / Insulation Class F
- Cylinder: Stainless steel 304
- Valves: Brass
- Connection: Brass / Polypropylene
- Pipework: Braided flexihose / Copper
- Colour: Flexfill: Powder Coated – Black (RAL 9005)

Note: Any questions please contact your local Flamco representative

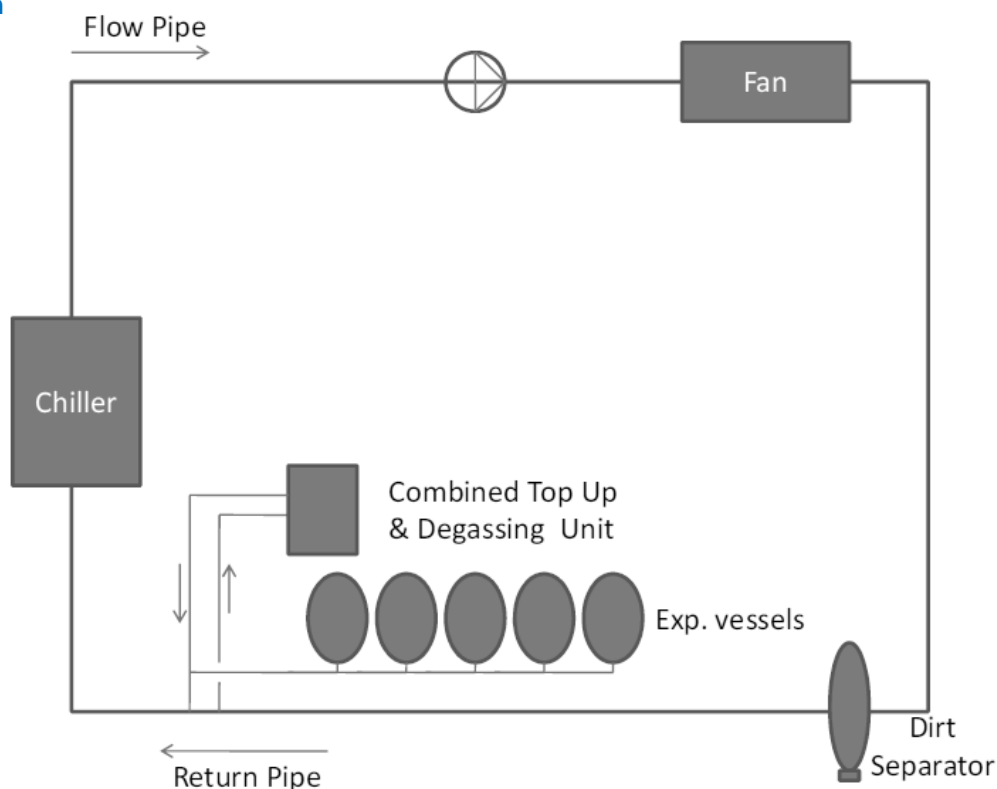
Specification:

Description	Dimensions (mm)			System Connection	Overflow (mm)	Weight (Kg)	Order Code
	Width	Depth	Height				
BOSS Pressfill Plus 250D	470	320	1160	1/2" / 15mm	22	57	03510253
BOSS Pressfill Plus 280D	600	320	1160	1/2" / 15mm	22	65	03510264
BOSS Pressfill Plus 2160D	600	320	1160	1/2" / 15mm	22	83	03510275

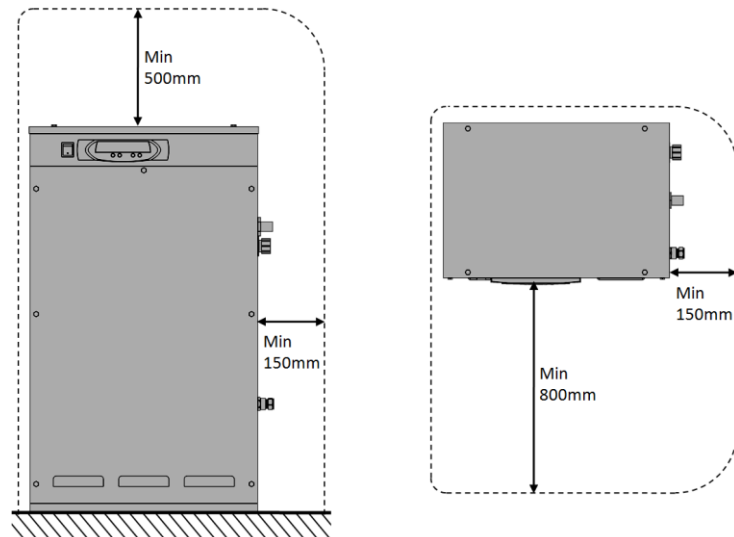
Description	Break Tank Capacity	Pump Quantity	Pressure Rating (PN)	Delivery Pressure Range (Bar)	Max System Volume	Full Load Current (A)	Power Rating (Kw)	Required Supply Voltage
BOSS Pressfill Plus 250D	18	2	10	1-6	300,000	2 x 3.4	2 x 0.52	240/1/50
BOSS Pressfill Plus 280D	18	2	10	1-8	300,000	2 x 5.6	2 x 0.75	240/1/50
BOSS Pressfill Plus 2160D	18	2	16	8-16	300,000	2 x 6.6	2 x 2.2	415/3/50

System Temperature Range	0 - 90°C
Ambient Temperature Range	0 - 45°C
Maximum Allowable Temperature at the Point of Connection	70°C
Noise Rating	Approx. 75 dB(A)
Safety Rating	IP 54
Maximum Turbo Runtime	168 hours (1 week)
Maximum Normal Downtime	180 minutes (3 hours)

Typical Chilled System



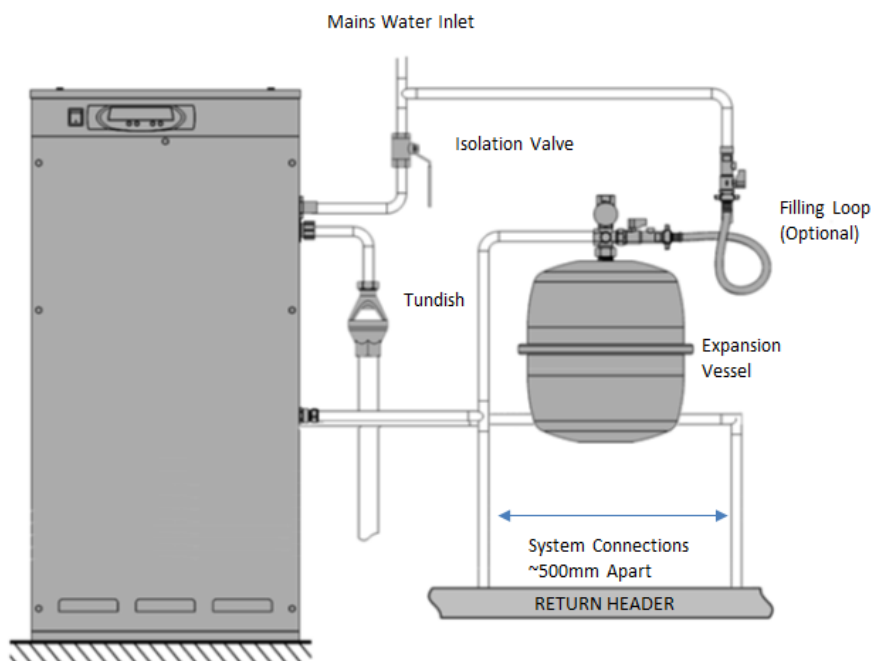
Clearance and connection requirements:



Installation & Placement:

The Pressfill Plus unit should be connected to the system at the same point as the expansion vessel to provide a neutral pressure reading. The two system connections must be installed on the return header to the heat exchanger approximately 0.5m apart.

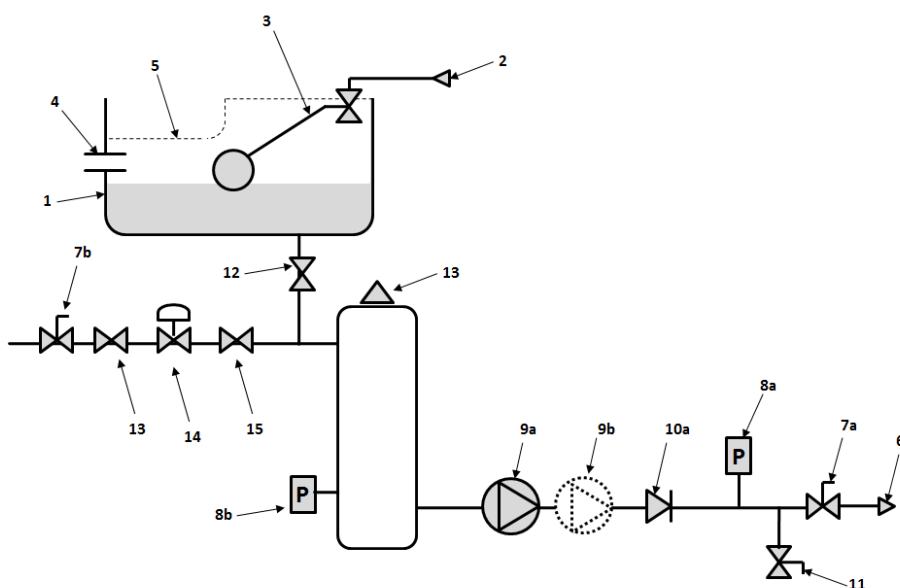
Typical Installation Diagram: (Image for illustration purposes only) (Example: floor standing model)



Schematic layout:

Key

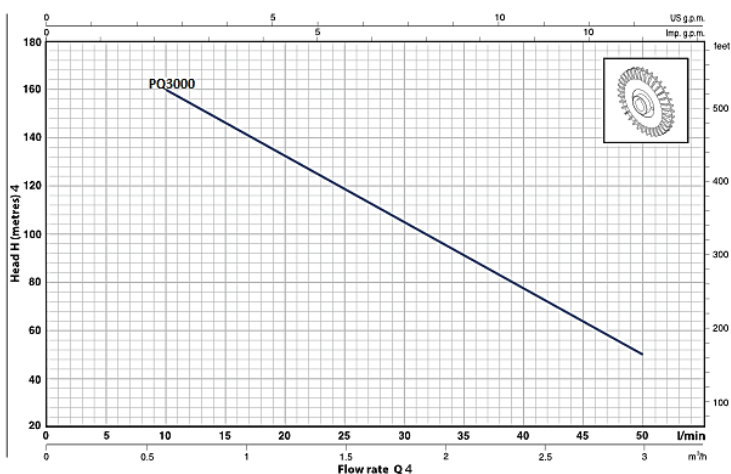
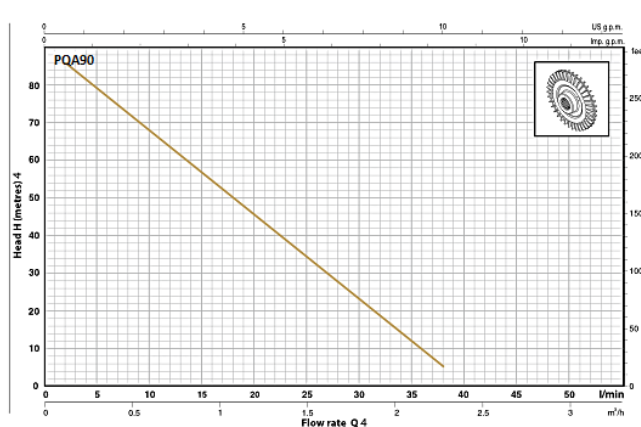
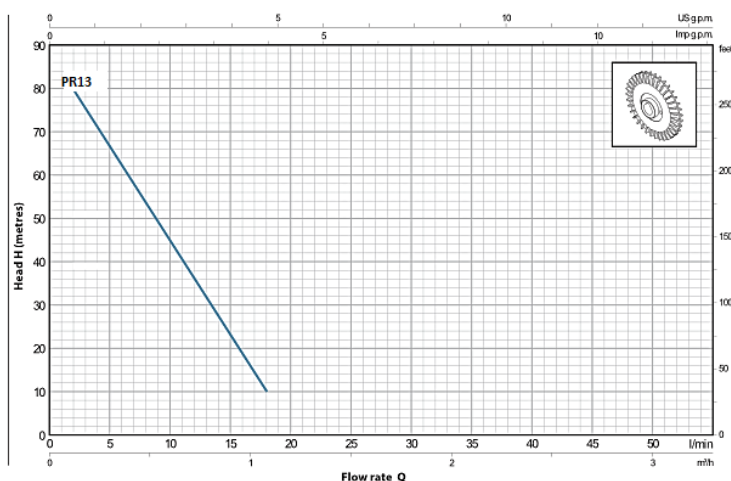
- 1 Break tank
- 2 Mains water supply
- 3 Float valve
- 4 Overflow
- 5 AB weir overflow
- 6 To System
- 7a / 7b Isolation valve
- 8a Pressure sensor (System)
- 8b Pressure sensor (Cylinder)
- 9a / 9b Pump
- 10 Non Return valve
- 11 Drain valve
- 13 Solenoid valve
- 14 Reducing valve
- 15 Variable bypass valve
- AAV Automatic air Vent



Pump Curve:

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min H_S= 0 m



Product Name	Pump Used
BOSS Pressfill 250D	PR13
BOSS Pressfill 280D	PEDROLLO PQA90
BOSS Pressfill 2160D	PEDROLLO PQ3000

Disclaimer: We reserve the right to change designs and technical specification of our products