

Description:

Compact, totally enclosed Mechanical pressurisation unit for use on sealed systems in order to provide a minimum system pressure requirement.



Features:

- Wall Mounted
- Combined High / Low switches
- Analogue Pressure Gauge
- 2 litre break tank with type AB Air Gap Fluid Cat 5

Application of Use:

- Light Commercial, residential

System Volume (Guide): < 2600 Litres

Certifications and Standards Applied:

- PED 2014/68/EU Sound Engineering Practice
- IEE - Electrical Safety Guidance
- EMC 2004/108/EC
- BS7074 Parts 1 to 3
- Machine 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 3
- IP54 (BS EN60529) Rated Controller
- Pump certified to UL / VDE

Water Regulations:

- Complies with water regulations 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 85°C
- Ambient temperature up to 40°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
- Final working pressure

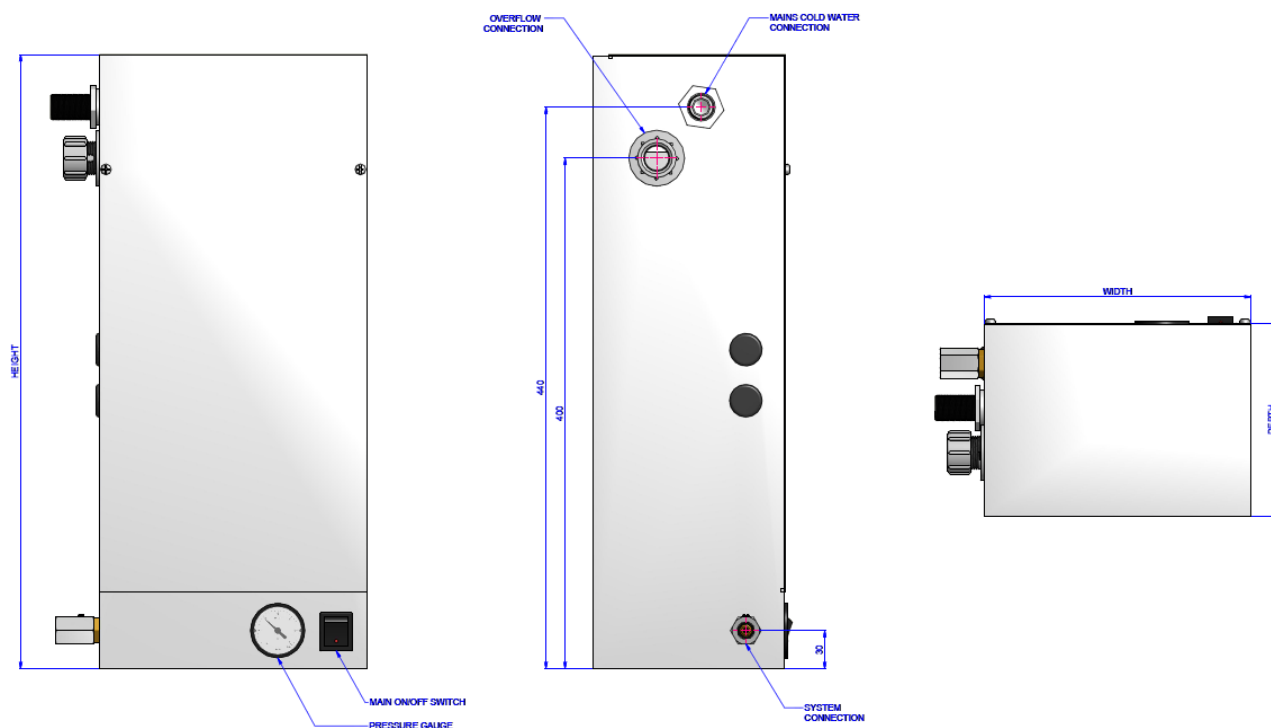
Material of Construction:

- Cabinet: Mild steel CR4
- Float: Thomas Dudley Valve
- Break Tank: Polypropylene
- Pump: Insulation Class F
- Pump: ULKA EP-77
- Connection: Brass / Polypropylene
- Pipework: Braided flexihose
- Colour: Powder Coated – White (RAL 9910)

Note: Any questions please contact your local representative

Specification:

Product Name	Dimensions (mm)			Connections (mm)			Dry Weight (Kg)	Order Code
	Width	Depth	Height	System	Mains Supply	Drain		
BOSS MX1-3HL	210	150	480	8 (1/4")	15 (1/2")	22	7.5	03510006
BOSS MX2-3HL	210	150	480	8 (1/4")	15 (1/2")	22	8.5	03510017

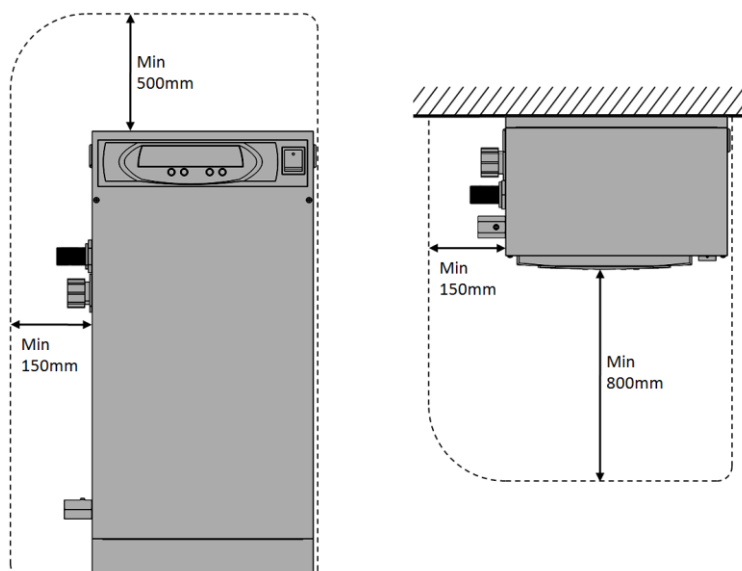


Installation & Placement:

The MX-3HL pressurisation unit should be installed in a frost-free and humidity free area. Connected to the system return pipe, at the same point as the expansion vessel to provide a neutral pressure reading

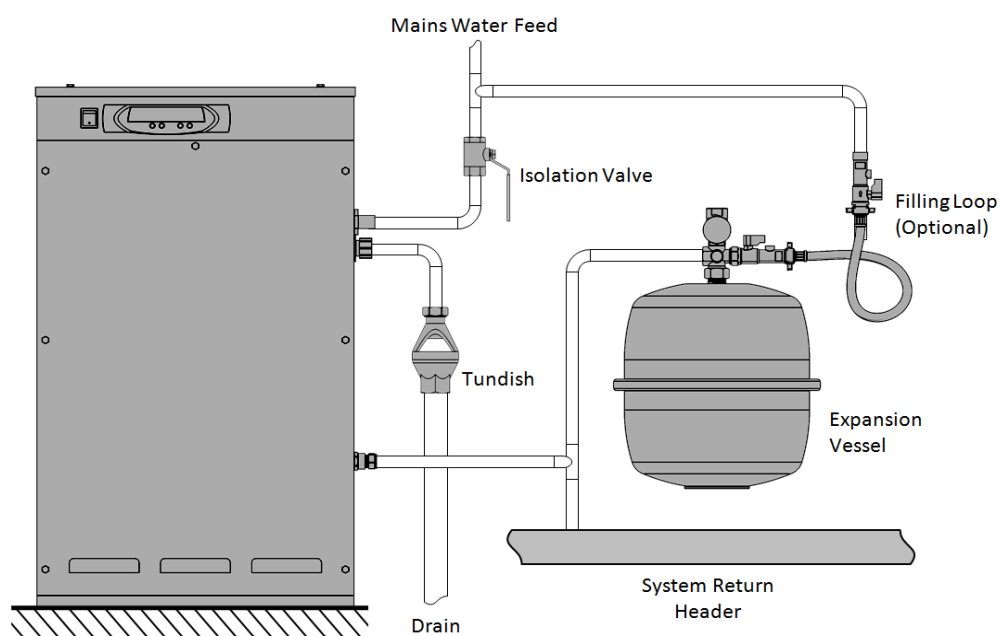
This unit is not suitable for system filling.

Clearance and connection requirements:

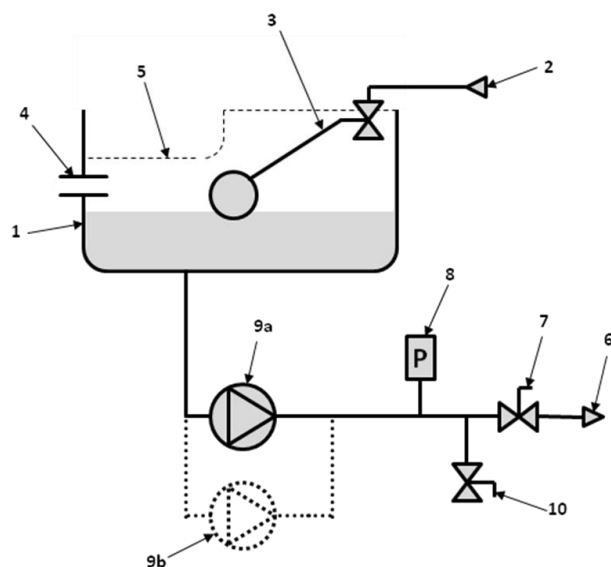


Product Name	Required Supply Voltage	Pump Quantity	Maximum Delivery Pressure (bar)	Power Consumption (KW)	Full Load Current (amps)	Noise Rating (dBA)	Pressure Rating (bar)
BOSS MX1-3HL	230V 1 Phase 50 Hz	1	3	0.035	0.3	<75	PN10
BOSS MX2-3HL	230V 1 Phase 50Hz	2	3	2 x 0.035	2 x 0.3	<75	PN10

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



Schematic layout:

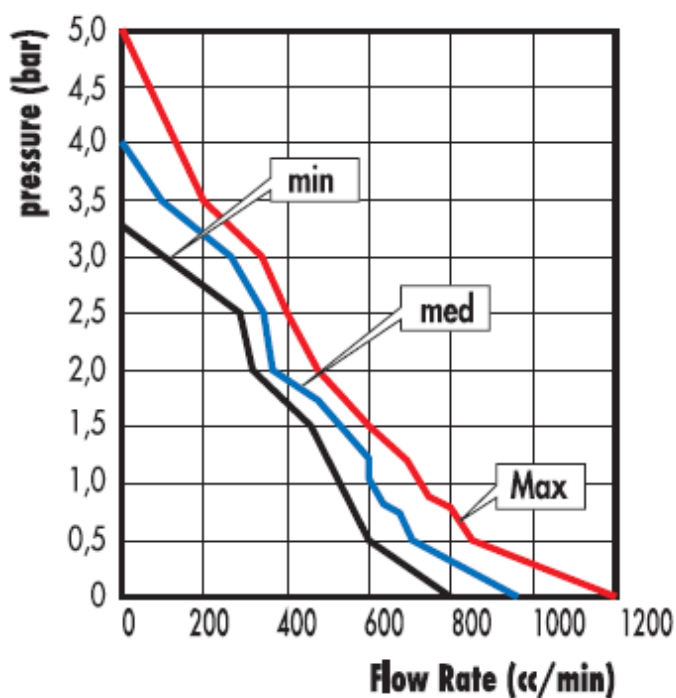


KEY

- 1 Break Tank
- 2 Mains Water Inlet
- 3 Float Operated Valve
- 4 Overflow Connection
- 5 AB Air Gap Backflow Protection
- 6 Supply To Sealed System
- 7 Isolation Valve
- 8 Pressure Transmitter
- 9a / 9b Pump(s) c/w Non Return Valve
- 10 Drain Valve

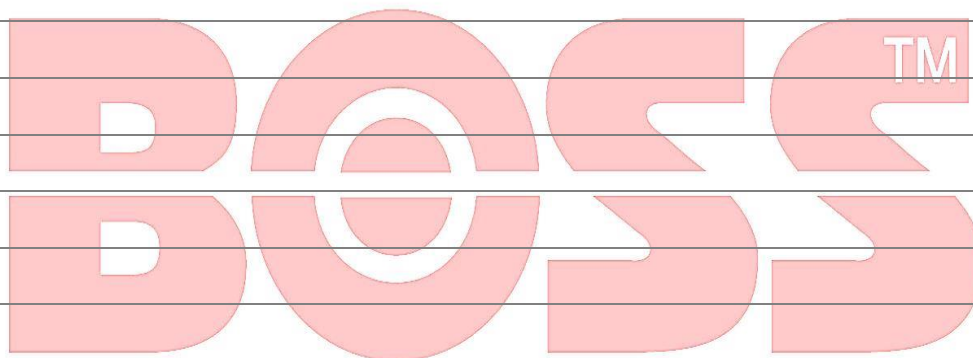
Pump curve:

ULKA EP77 Model E



Product Name	Pump Used
BOSS MX1-3HL	ULKA Model E EP77
BOSS MX2-3HL	ULKA Model E EP77

Notes



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