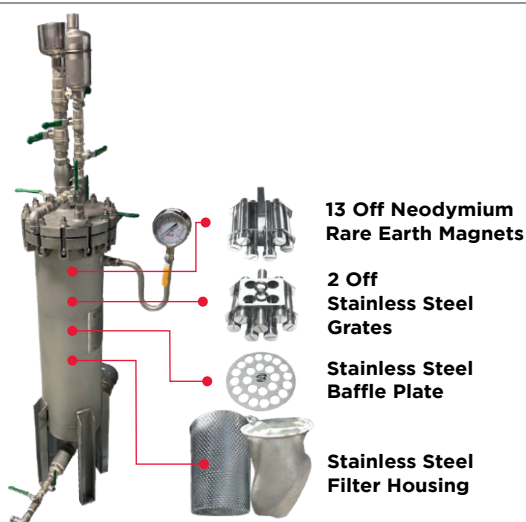


BOSS X-POT XXP SIDE STREAM FILTRATION AND DOSING UNIT

Code	BOSS Ref	Description
16920558	X-POTXXP	BOSS™ X-POT XXP Side Stream Filtration & Dosing Unit

Feature	Description
Maximum System Working Pressure	30 Bar
Suitable For System Volumes upto	302,400 Litres
Flow Rate Through the Vessel	0.083L/sec to 3.50L/sec (4.98 l/m to 210L/min)
Temperature Range	0°C to 95°C
Filtration Rate	> 1 Micron
Weight	Dry: 45kg Operational: 75kg
Isolation Valve Connections	2" BSP Female
Dosing Capacity	25L
Frame Mounting	Floor Standing
Vessel Body	304 Stainless Steel – complies with PED 2014/68/EU “CE” marked
Baffle Plate	316 Stainless Steel
Magnet Grate	316 Stainless Steel
Magnets x 13No	Neodymium Rare Earth
Bag Filter x 5No (1 Off each size)	Polypropylene Needlefelt (100, 50, 25, 5 and 1 micron)
Isolation Valves	304 Stainless Steel
NRV and Fittings	304 Stainless Steel
AAV	304 Stainless Steel
Pipework	Stainless Steel



Bespoke Insulation Jacket



Assembly & Operating Instructions are Included

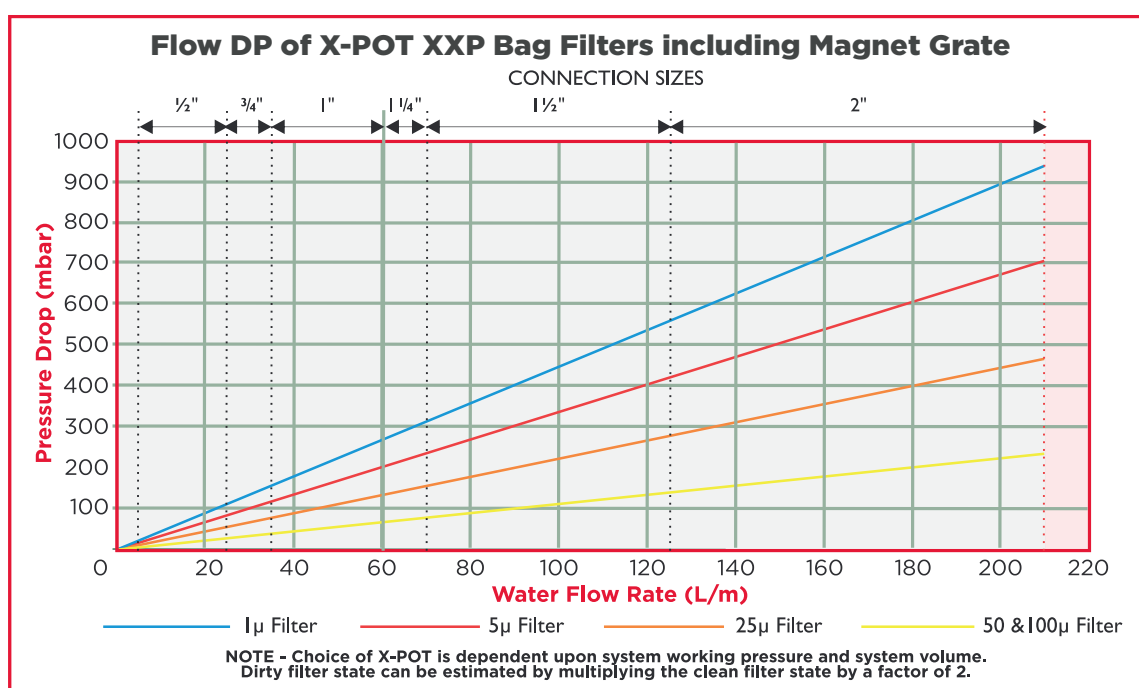


1 each of 100,50,25,5 & 1 micron bag filters included

BOSS™ X-POT XXP Side Stream Filtration & Dosing Unit

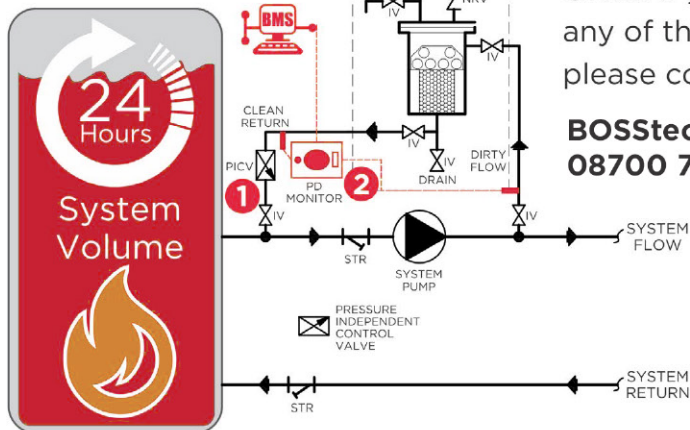
BOSS X-POT XXP SIDE STREAM FILTRATION AND DOSING UNIT

Feature	Benefits
Compliance	Engineered for BSRIA BG29 and BG50 Guidance for Chemical Dosing, Magnetic Filtration, Fine Filtration, Passive Deaeration and Side Stream Filtration. Fully compliant with PED 2014/68/EU 'CE' Marked.
Magnetic Filter	Removes magnetic system debris, increases the lifespan of the boiler, chiller and cooling system components, reduces carbon emissions, increases fuel efficiency and increases the lifespan of the Bag Filter.
Polypropylene Needlefelt Bag Filter	Removes non-magnetic system debris, available in 100, 50, 25, 5 & 1 micron filtration rates, ensures coalescence micro-bubble formation on the surface of the filter & surpasses BSRIA Guidance for filtration rates.
Automatic Air Separator	Ensures the system micro-bubbles and air are emitted from the system and helps to reduce corrosion rates and decreases stress on system components.
25L Dosing Pot Capacity	Enables installers and maintenance personnel to quickly dose the system with water treatment additives.
Connections 2" BSP	Suitable for all types of closed loop LTHW Heating and Cooling Water Systems up to 302,400 Litres in volume.
13No 8,500 Gauss Neodymium Magnets	Each magnet is fully encased in 304SS shell, easily removable from the 316SS Magnet Grate for cleaning and fully submerged in the system flow for increased filtration.
Floor Mounting Plate	Compact Floor Mounting plate for easy installation. Void located under unit can be used for positioning via Lifting apparatus.
Installation Bracket & Rod	For simple installation to wall + 4 off bolt holes in feet
Servicing	The replacement of bag filters, cleaning of the magnet grate and dosing of the system can be safely and simply achieved without the need to shut the main system down.
Enhanced Performance	The ingenious design ensures that the filter will continue to perform should regular maintenance not be carried out.
Stainless Steel Components	All major components are manufactured from 304SS or 316SS for improved lifecycle and reliability.
Full Bore Ball Valve Isolation Valves	The 304SS isolation valves do not restrict system flow and increases ease of installation.
Bespoke Insulation Jacket	The bespoke insulation jacket ensures heat losses are minimised.
Warranty	8 Years excluding filters and AAV



Simple Schematics

Installation example



The X-POT provides a number of installation solutions. These examples are INDICATIVE ONLY. If your system cannot accommodate any of these scenarios due to complexity, please contact the **BOSS Technical Team**:

BOSStechteam@BSSgroup.com
08700 750000 - Option 3



Which connections and X-POT?

The size of the connections to the X-POT is determined by the total system volume being circulated through the X-POT in a 24 Hour period.

$$\frac{\text{SYSTEM VOLUME}}{86,400\text{sec}} = \text{l/sec}$$

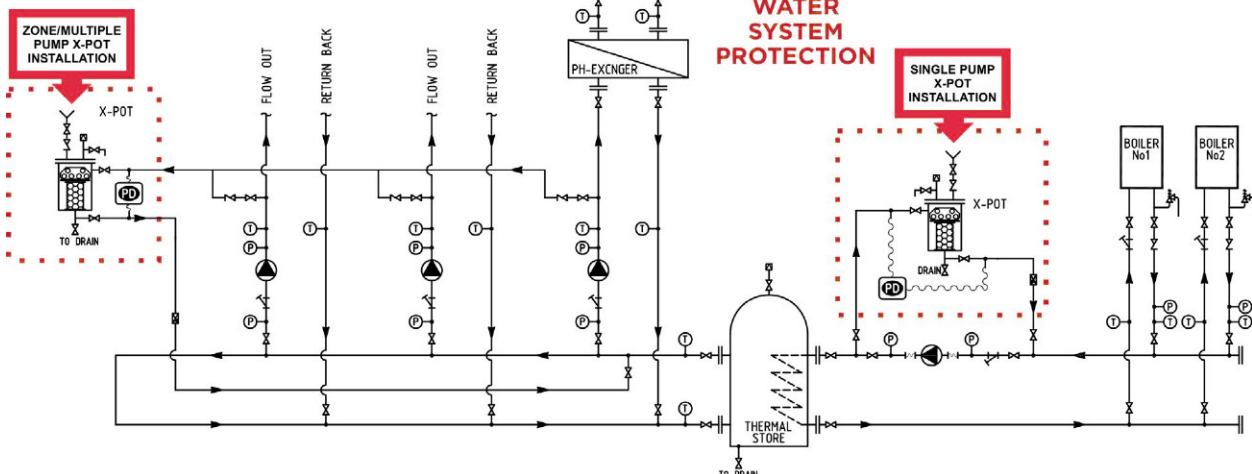
0.083 - 0.4 l/s = 1/2" Conn.
 0.4 - 0.6 l/s = 3/4" Conn.
 0.6 - 1.0 l/s = 1" Conn.
 1.0 - 1.2 l/s = 1 1/4" Conn.
 1.2 - 2.1 l/s = 1 1/2" Conn.
 2.1 - 3.5 l/s = 2" Conn.

EXAMPLE

Working Pressure: 30 Bar
 System Volume 90,000L = 1.04l/s
 Chosen Vessel: X-POT XXP
 Connection Size: 1 1/4"

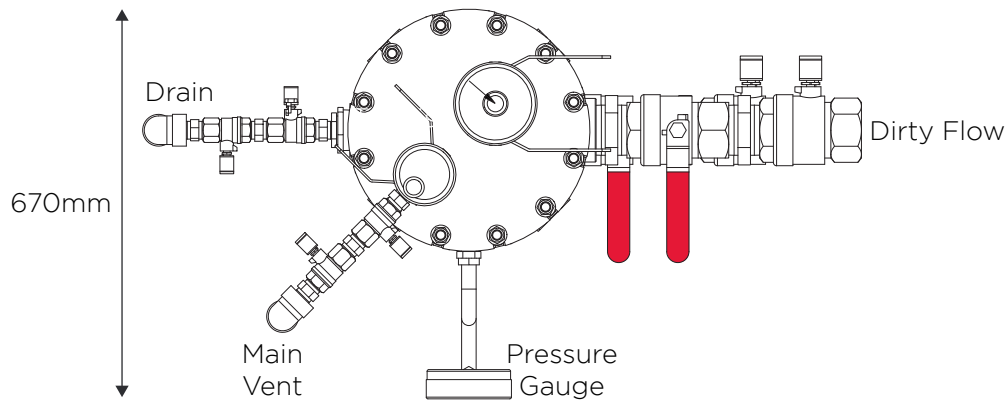
Indicative system placement

- ISOLATION VALVE
- NON RETURN VALVE
- STRAINER
- AUTO AIR VENT
- PRESSURE GAUGE
- TEMPERATURE GAUGE
- PRESSURE RELEASE VALVE
- FLEX CONNECTION
- PUMP
- BOSS[®] PD-MONITOR
- PRESSURE INDEPENDENT CONTROL VALVE
- COMMISSIONING VALVE
- 3 PORT VALVE

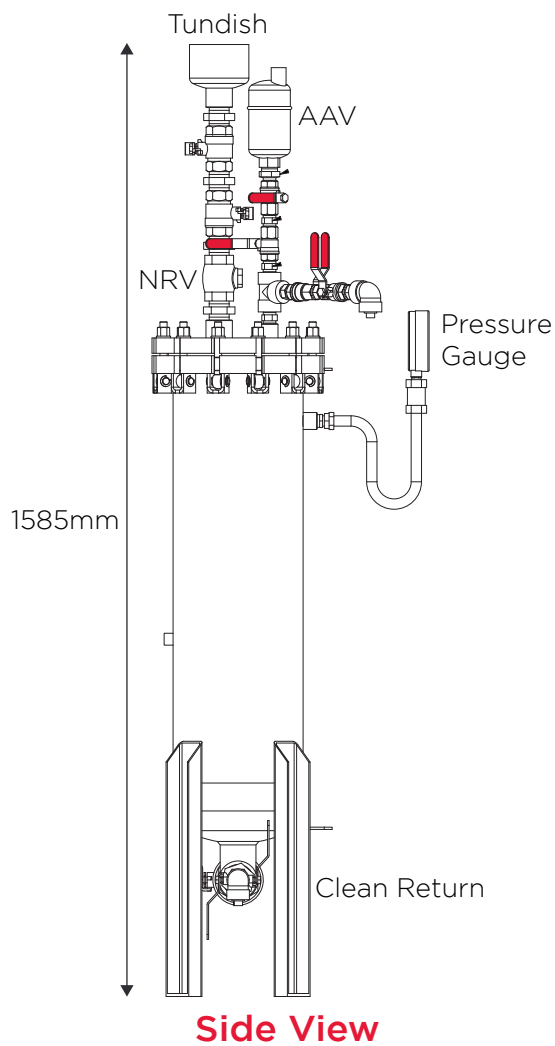


THE X-POT SHOULD BE FITTED ON THE SECONDARY HEATING CIRCUIT TO ENSURE BULK WATER SYSTEM PROTECTION

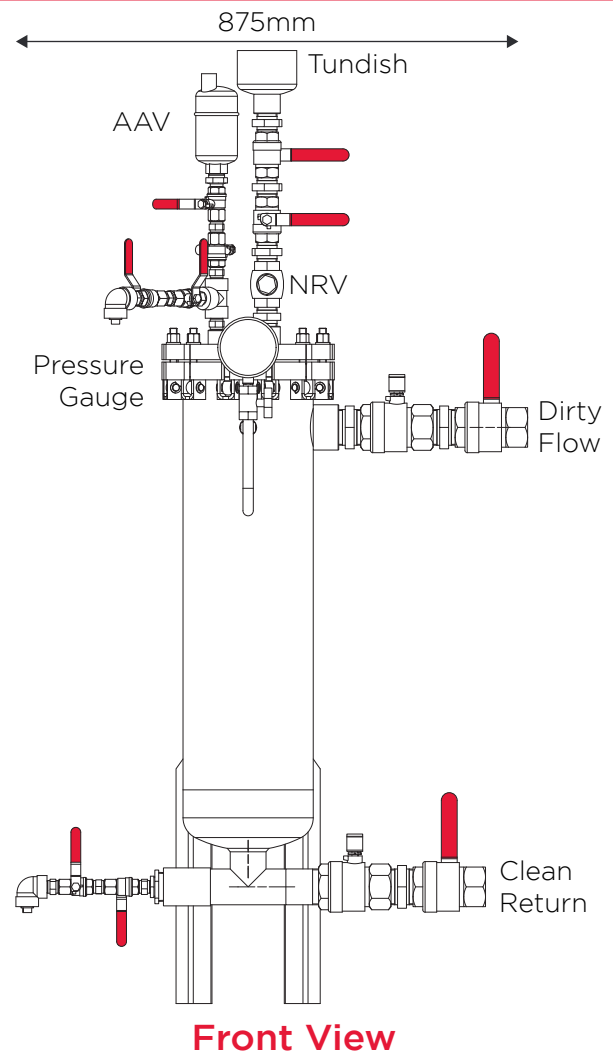
Line Drawings



Plan View



Side View



Front View