

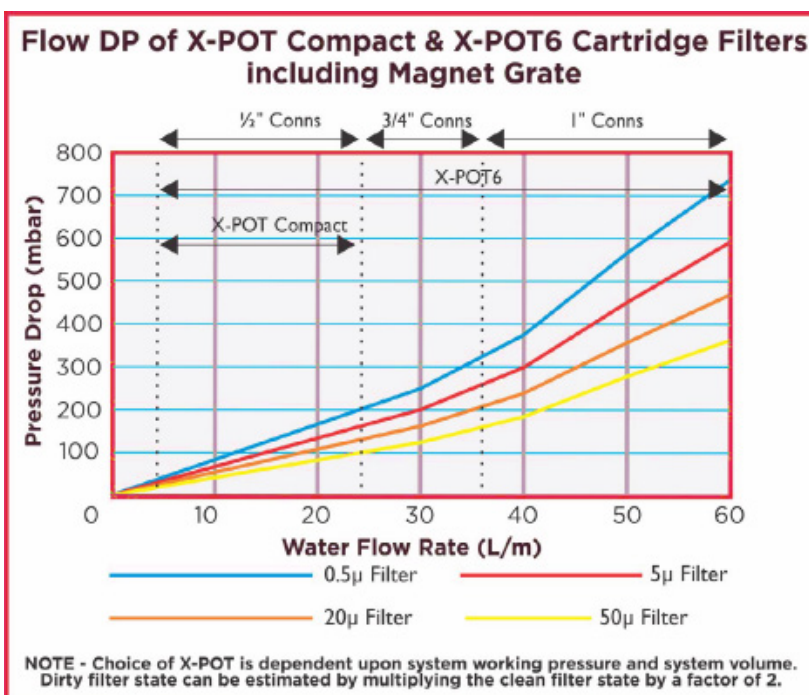
**BOSS<sup>™</sup> X-POT COMPACT SIDE STREAM FILTRATION AND DOSING UNIT**

Code	BOSS <sup>™</sup> Ref	Description
16920824	X-POT Compact C/W Starter Pack	BOSS <sup>™</sup> X-POT Compact C/W Starter Pack
16920503	X-POT Compact Unit Only	BOSS <sup>™</sup> X-POT Compact Unit Only
16920794	X-POT Compact Starter Pack Only	BOSS <sup>™</sup> X-POT Compact Starter Pack Only

Feature	Description
Maximum System Working Pressure	4Bar
Suitable For System Volumes upto;	34,560 Litres
Flow Rate Through the Vessel	0.083L/sec to 0.4L/sec (4.98L/min to 24L/min)
Temperature Range	0°C to 95°C
Filtration Rate	Down to 0.5 Micron
Weight	Dry: 17kg      Operational: 23kg
Isolation Valve Connections	½" BSP Female
Dosing Capacity	4.5L
Filter Body Mounting	Wall or Floor Standing (Metal Framing Channel)
Vessel Body	304 Stainless Steel - complies with PED 2014/68/EU SEP
Baffle Plate	316 Stainless Steel
Magnet Grate	316 Stainless Steel
Magnets x 4No	Neodymium Rare Earth
Cartridge Filter x 1No	Polypropylene Spun Bonded Fibre
Isolation Valves, NRV and Fittings	304 Stainless Steel
AAV	Brass
<p>including 4 No. Neodymium Rare Earth Magnets &amp; Stainless Steel Grate</p> <p>AAV in Contractor Pack</p> <p>Stainless Steel Baffle Plate</p> <p>Cartridge Filter in Contractor Pack only</p> <p><b>CRATE CONTENTS</b></p> <p>BOSS X-POT COMPACT Side Stream Filtration &amp; Dosing Unit</p>	<p>Insulation Jacket (2 parts)</p> <p>Assembly and Operating Instructions are included</p> <p>Auto AirVent</p> <p>1x 20 Micron Cartridge Filter</p> <p>1x BOSS Commercial Inhibitor</p> <p>1x BOSS Test Kit</p> <p><b>BOX CONTENTS</b></p> <p>BOSS X-POT Compact Starter Pack</p>

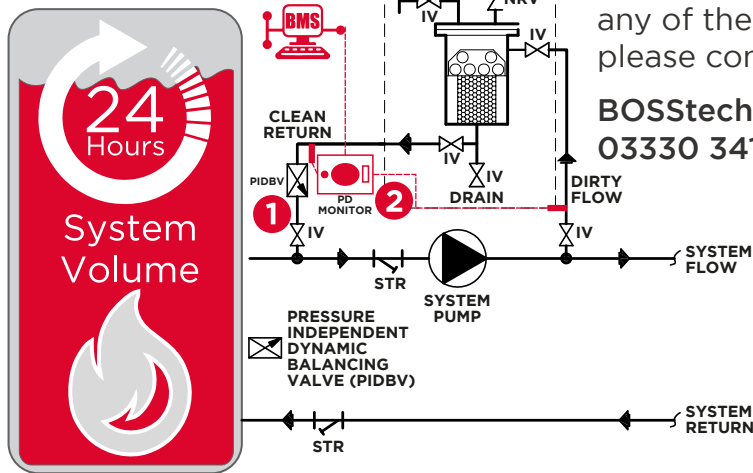
**BOSS™ X-POT COMPACT SIDE STREAM FILTRATION AND DOSING UNIT (Continued)**

Feature	Benefits
Compliance	Engineered for BSRIA BG29 and BG50 Guidance for Chemical Dosing, Magnetic Filtration, Fine Filtration, Passive Deaeration and Side Stream Filtration.
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 Cartridge Filter.
Polypropylene Cartridge Filter	Removes non-magnetic system debris, available in 50, 20, 5 & 0.5 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.
4.5L Dosing Pot Capacity	Enables installers and maintenance personnel to quickly dose the system with water treatment additives.
Connections ½" BSP	Suitable for all types of closed loop LTHW Heating and Cooling Water Systems up to 34,560 litres in volume.
4No 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.
Installation Bracket	Complete with backing plate for simple installation to wall or frame.
Servicing	The cleaning of the filters can simply be achieved without the need to shut the main system down and the dosing of water treatment chemicals is achieved simply and safely, again without the need to shut the 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	Supplied as part of the Contractor Pack. 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 dumber 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**  
**03330 341920**



### 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.

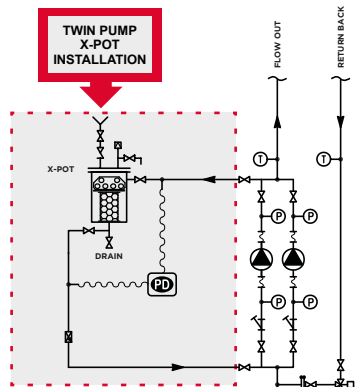
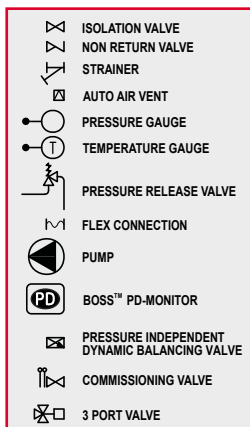
$$\frac{\text{SYSTEM VOLUME}}{86,400\text{sec}} = \text{l/sec}$$

0.083 - 0.4 l/s = ½" Conn.  
0.4 - 0.6 l/s = ¾" Conn.  
0.6 - 1.0 l/s = 1" Conn.  
1.0 - 1.2 l/s = 1 ¼" Conn.  
1.2 - 2.1 l/s = 1 ½" Conn.  
2.1 - 3.5 l/s = 2" Conn.

### EXAMPLES

Working Pressure: 3 Bar  
System Volume 22,500L = 0.26l/s  
Chosen Vessel: X-POT Compact  
Connection Size: ½"

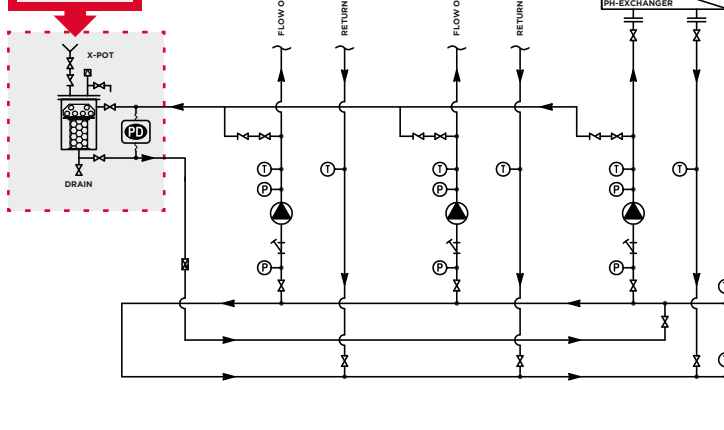
Working Pressure: 10 Bar  
System Volume 90,000L = 1.04l/s  
Chosen Vessel: X-POT XP  
Connection Size: 1 ¼"



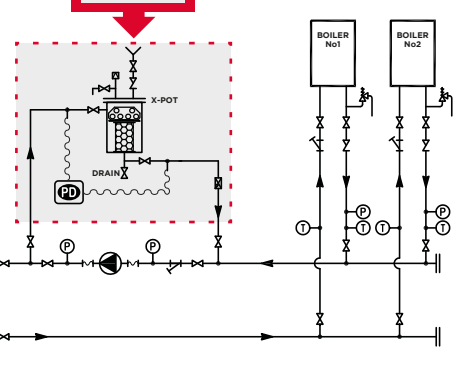
PACKAGED DIFFERENTIAL PRESSURE MONITOR

THE X-POT<sup>®</sup> SHOULD BE FIT ON THE SECONDARY HEATING CIRCUIT TO ENSURE BULK WATER SYSTEM PROTECTION

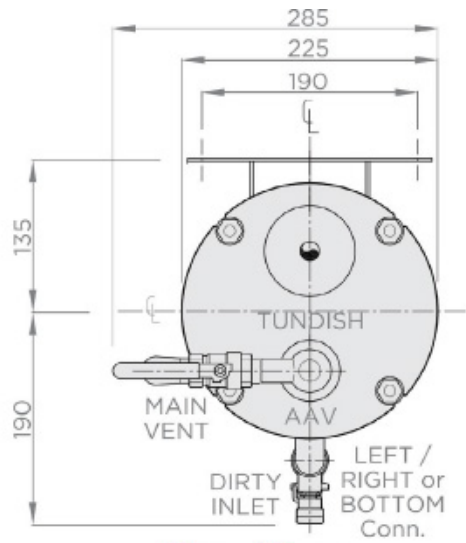
ZONE/MULTIPLE PUMP X-POT INSTALLATION



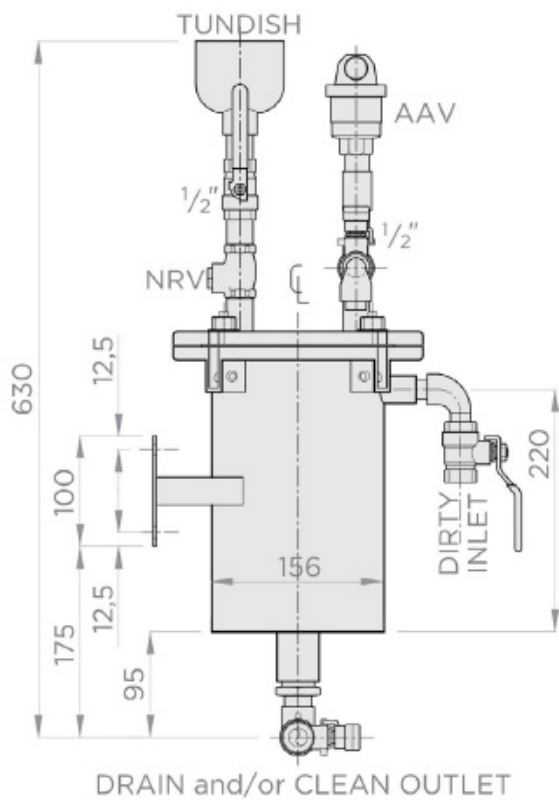
SINGLE PUMP X-POT INSTALLATION



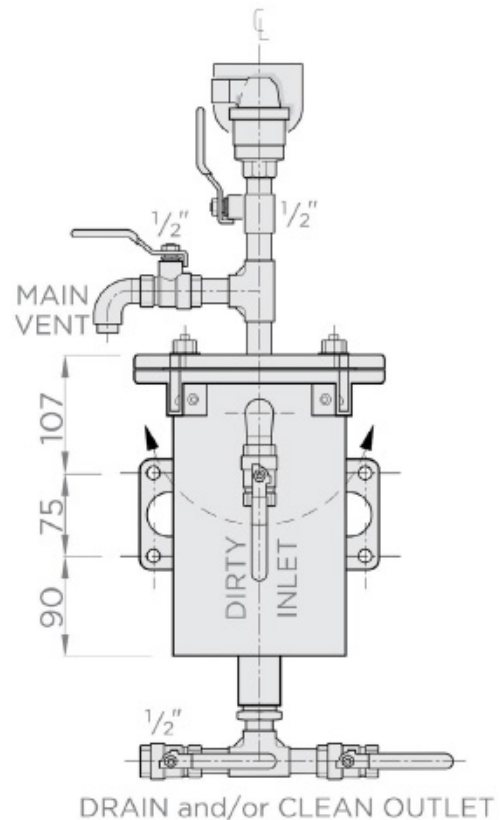
**Line Drawings**



**Plan View**



**Side View**



**Front View**