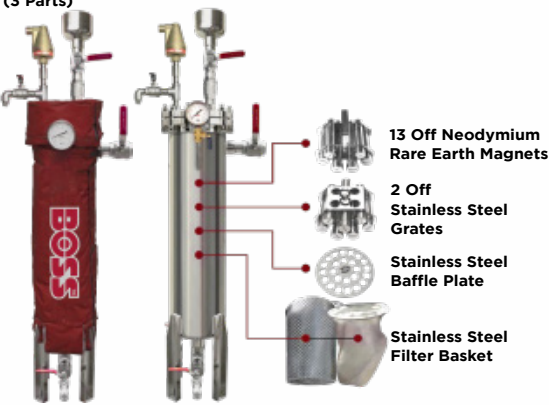
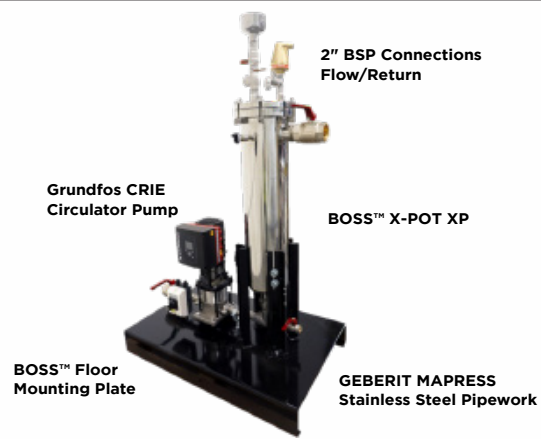


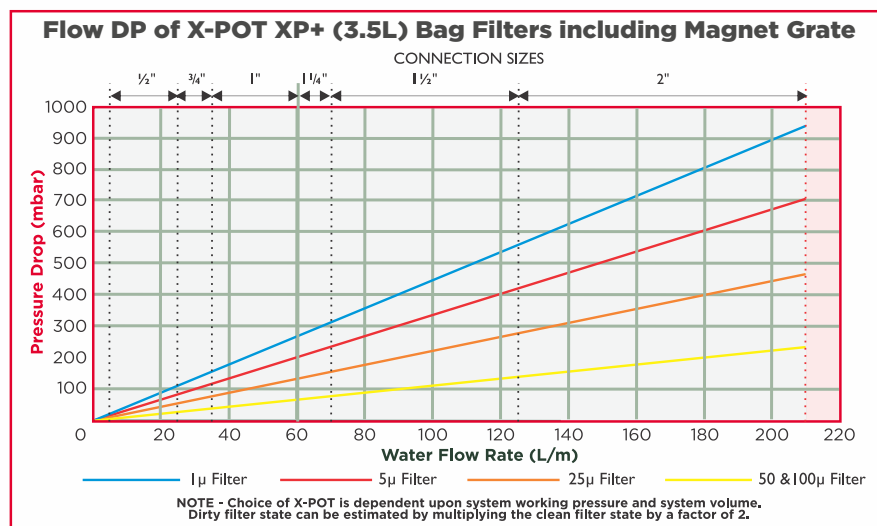
BOSS™ X-POT XP+ (3.5L) SIDE STREAM FILTRATION AND DOSING UNIT WITH INTEGRATED SMART PUMP AND BMS COMPATIBILITY

Code	BOSS Ref	Description
16920547	X-POTXP+	BOSS™ X-POT XP+ (3.5L) Side Stream Filtration & Dosing Unit with integrated pump and BMS Compatibility

Feature	Description
Maximum System Working Pressure	16 Bar
Suitable For System Volumes upto	302,400 Litres
Flow Rate Through the Vessel	1.00l/sec to 3.50l/sec (60L/min to 210l/min)
Temperature Range	0°C to 95°C
Filtration Rate	> 1 Micron
Weight	Dry: 126kg Operational: 151kg
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	Nickel Plated Brass
NRV and Fittings	304 Stainless Steel
AAV	Brass
Pipework	Stainless Steel
Pump	Grundfos IND-O-X-1-CRiE 10-2
Pump Electrical Requirement	1.5kW / 9.10-7.60 A / 230V / 1 Phase / 50/60 Hz
BMS Signal	5-amp Common Alarm Relay used to contact BMS System N/O
Insulation Jacket (3 Parts) 	
BOSS™ X-POT XP+ (3.5L) Side Stream Filtration and Dosing Unit	BOSS™ X-POT XP+ (3.5L) Frame & Components

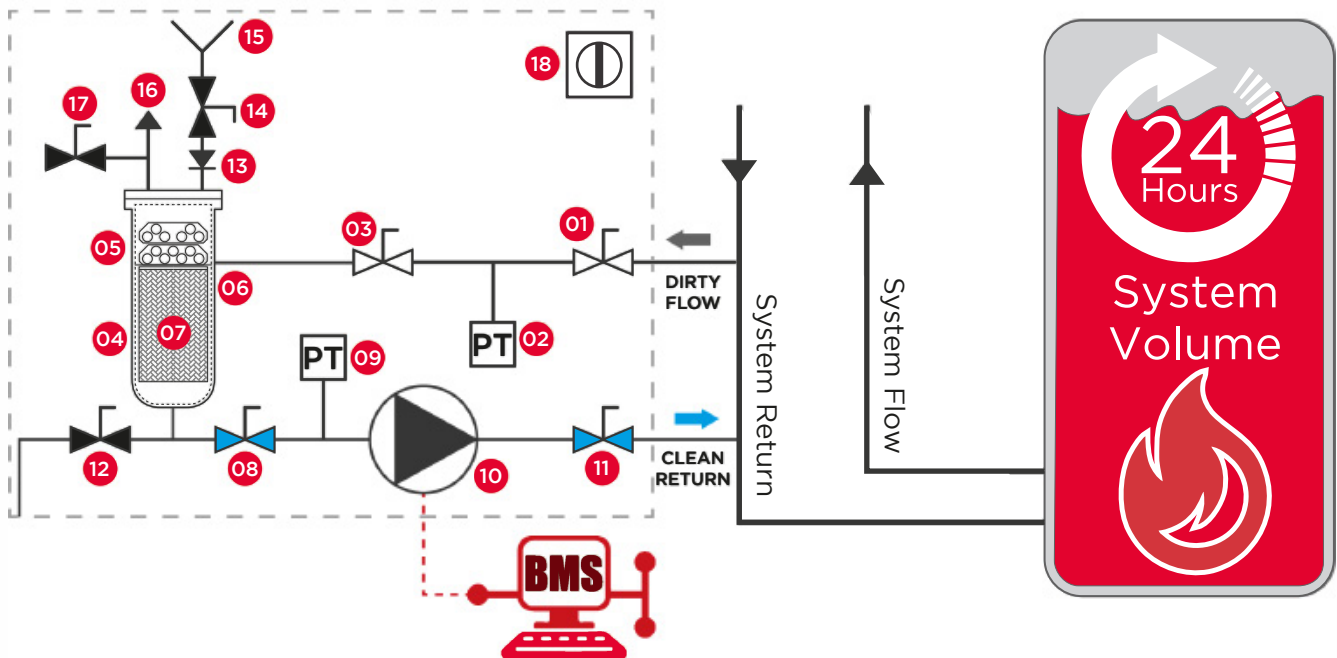
BOSS™ X-POT XP+ (3.5L) SIDE STREAM FILTRATION AND DOSING UNIT WITH INTEGRATED SMART PUMP AND BMS COMPATIBILITY

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.
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 Nickel Plated Brass isolation valves do not restrict system flow and increases ease of installation.
Bespoke Insulation Jacket	The bespoke insulation jacket ensures heat losses are minimised.
Grundfos CRiE Smart Circulator E Pump	The Grundfos CRiE Smart E Pumps are a High Efficiency Single Phase Circulator Pump with built in variable frequency drive (VFD). With use of an integral pressure sensor and an additional sensor positioned on the rear of the X-POT XP+ (3.5L) unit the Grundfos Smart E-Pump are configured to operate in differential pressure control. This enables a host of benefits including but not limited to; Energy Savings, control and monitoring of the pump performance and increased filtration reliability.
Warranty	2 Years excluding filters and AAV.



Simple Schematics

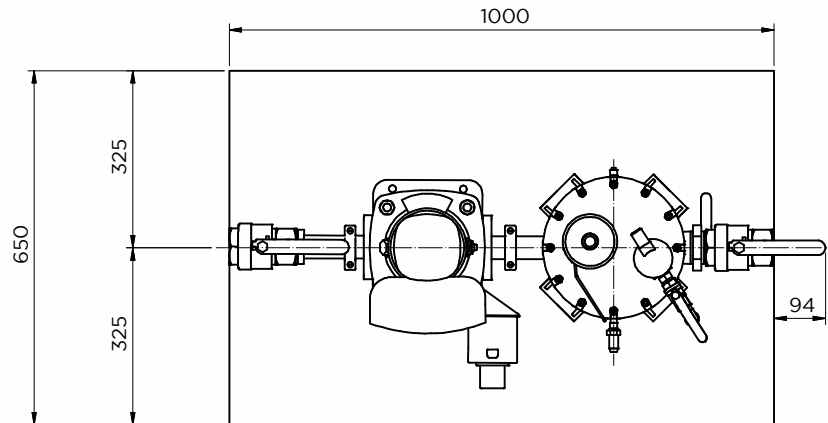
Installation Example



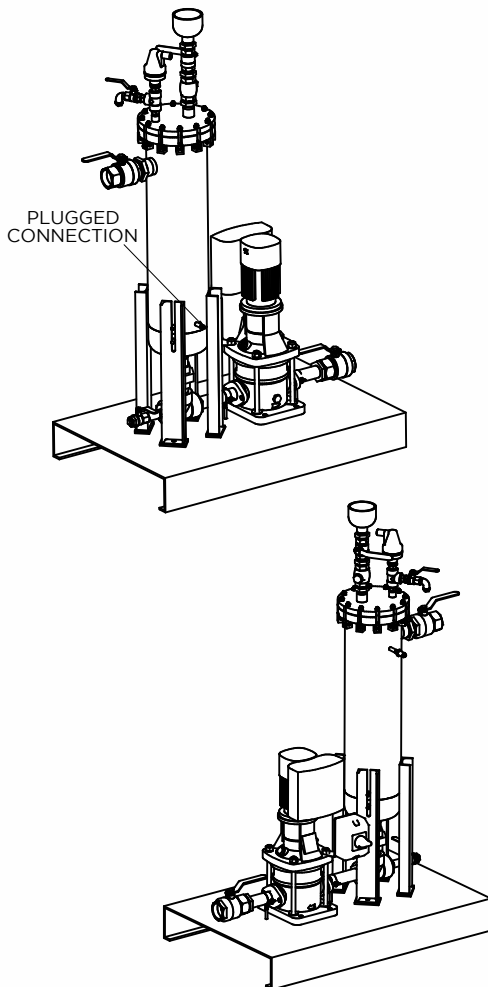
01	Isolating Valve	10	Grundfos CRIE (Smart Circulator E Pump)
02	Pressure Transducer 1 (Dirty Flow)	11	Isolating Valve
03	Isolating Valve	12	Drain Valve
04	BOSS™ X-POT XP+ (3.5L) Vessel Body	13	Swing Check Valve
05	Magnet Grate (Internal) 13 Magnets	14	Isolating Valve
06	Baffle Plate (Internal)	15	Chemical Fill Tundish
07	Bag Filter & Filter Basket (Internal)	16	Automatic Air Vent
08	Isolating Valve	17	Manual Vent Isolating Valve
09	Pressure Transducer 2 (Clean Return)	18	Mains On/Off Power Switch

The schematic above shows an indicative example only. For further support please contact the BOSS Technical Team:
03330 341920 / BOSStechteam@bssgroup.com

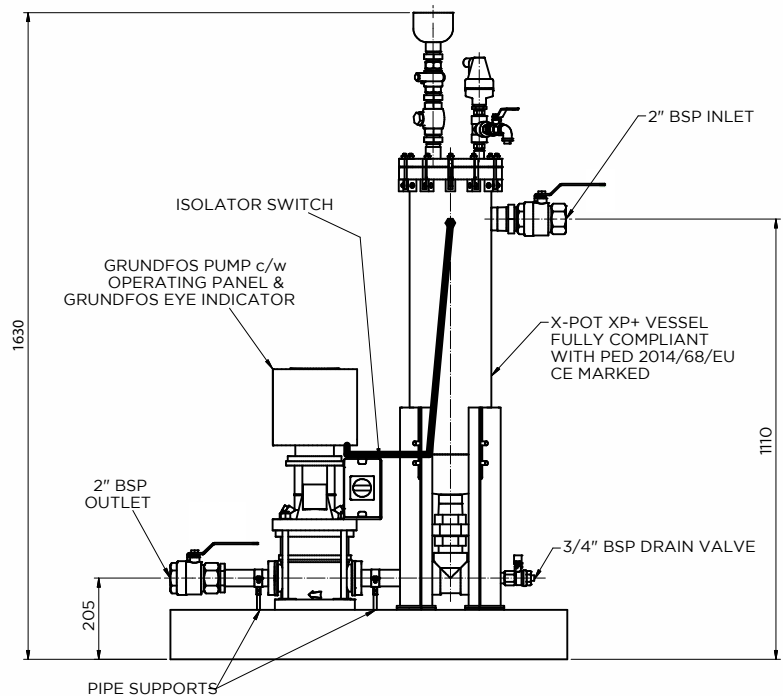
Line Drawings



Plan View



Side View



Front View