

The internationally trusted choice in its class

SUPERIOR PROTECTION FOR HVAC SYSTEMS UP TO 95°C







ZERO CARBON PROTECTION READY

BOSS IT WITH BOSS



How neglecting your hydronic thermal fluid can affect your bottom line

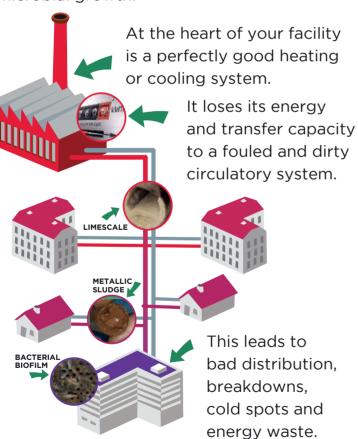
Your investment reduces as dirty system water slowly erodes your OPEX and reputation. YOUR INVESTMENT **Erosion corrosion** Reduction in efficacy of inhibitor Harbouring bacteria proliferation **Settlement of sediment** Non-repeatable commissioning readings **Delayed project handovers** Landlord losing tenants could lead to litigation **Efficiency losses** Lifecycle losses Damage to reputation WHAT'S LEFT OF YOUR INVESTMENT



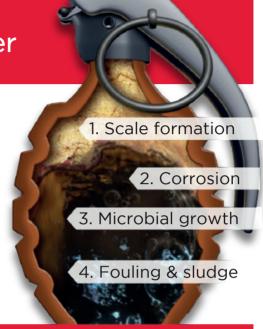
Why X-POT?

The problem with dirty water

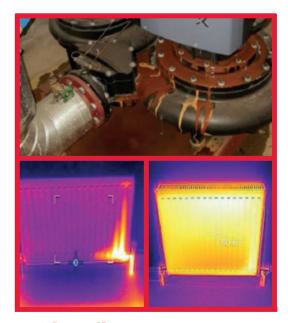
Water is the main means of closed system temperature distribution. It affects every single piece of equipment and every single person in the spaces that you manage. Wherever there is closed loop system water four problems will occur: scale formation, corrosion, fouling and microbial growth.



You could be losing over 10% energy from dirty system water alone!



Potential dangers hiding in closed system water.



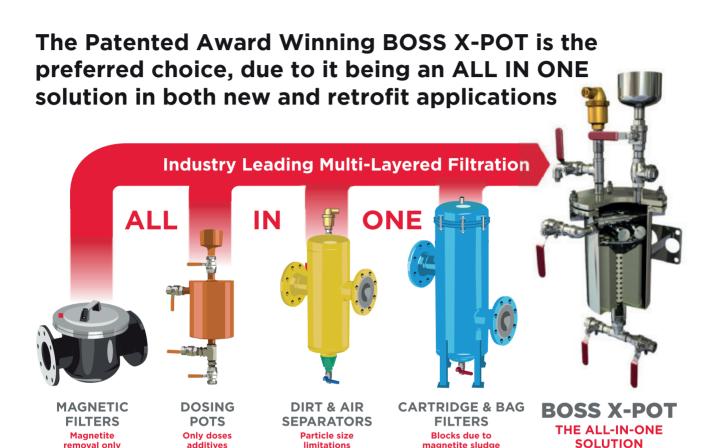
What dirty system water can do if left untreated.



What is the BOSS X-POT?







The X-POT combines most current system filtration units into one easy-install, easy-service, BSRIA acknowledged water conditioning product.

limitations

- Higher System performance at a smaller budget
- Greater reliability with reduced critical down time, increased heat distribution. AND fewer call outs.
- Retro-fit all-in-one Solution
- Multi-Functional Design

Improved system life cycle resulting in CAPEX savings, reductions in reactive maintenance and operational cost savings.

magnetite sludge

Protection for new zero carbon sensitive technologies and improved system efficiency for aged systems; with less flushing, a reduction in CO₂ and a more environmentally friendly facility.



removal only

Does the BOSS X-POT really work?

Absolutely. We have independently proven **3.5% energy saving** after just **1 week**

"The X-POT Side Stream filtration system reduced energy consumption by 3.5% within the first 7 days of use"

Johnathan Cripps, MSc Dissertation:

Low Energy Building Services Engineering (Effects of Corrosion on Heat Transfer Efficiency within a Heating System)

Loughborough University

The results speak for themselves with thousands of X-POT's installed, all with 100% positive client feedback. Below are examples of the X-POT's ability to remove contaminants.















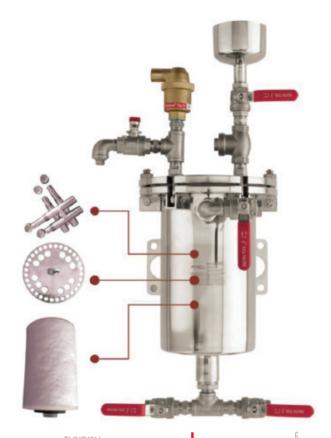


Side stream filtration for small to medium commercial systems



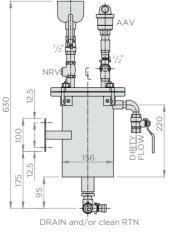




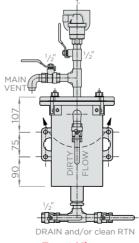


Side stream filtration including a magnetic filter, cartridge filter, air and dirt separator and dosing unit for small to medium commercial systems.

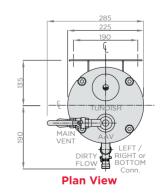
- Max working pressure:4 Bar
- Max system volume: 34,560 litres
- Flow rate: Up to 0.4 l/s
- Pipe connection:1/2" BSP
- Filtration rate:Down to 0.5 micron







Front View



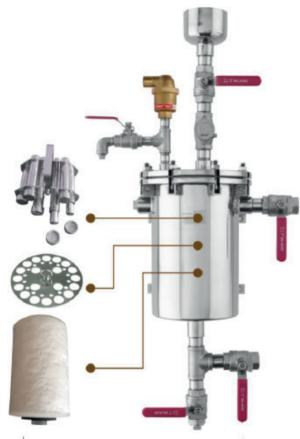


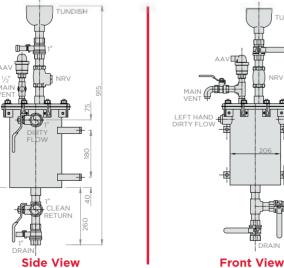
Side stream filtration for medium to large commercial systems





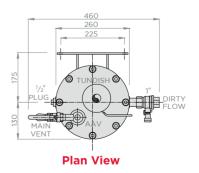






Side stream filtration including a magnetic filter, cartridge filter, air and dirt separator and dosing unit for medium to large commercial systems.

- Max working pressure:7 Bar
- Max system volume: 86,400 litres
- Flow rate: Up to 1 l/s
- Pipe connection:1" BSP
- Filtration rate: Down to 0.5 micron





Side stream filtration for large to district commercial systems







Side stream filtration including a magnetic filter, bag filter, air and dirt separator and dosing unit for extreme high-pressure systems

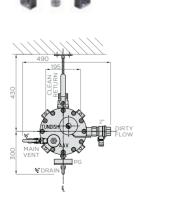
• Max working pressure: 16Bar

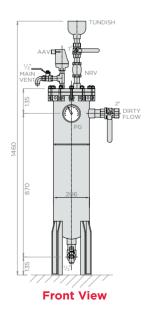
Max system volume: 302,400 litres

Flow rate: Up to 3.5 l/s

Pipe connection: 2" BSP

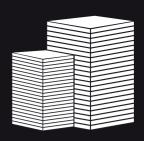
Filtration rate: Down to 1 micron





Plan View

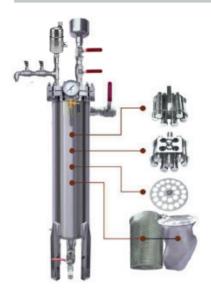
Made to order filtration for extreme high pressure or flow











- Max working pressure: 30Bar
- Max system volume: 302,400 litres
- Flow rate: Up to 3.5 l/s
- Pipe connection: 2" BSP
- Filtration rate: Down to 1 micron

Side stream filtration including a magnetic filter, bag filter, air and dirt separator and dosing unit for very large commercial systems.





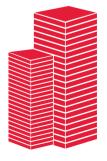






- Max working pressure: 10 or 30 Bar options
- Max system volume: 2,592,000 litres
- Flow rate: Up to 30 l/s
- Pipe connection: 6" PN 10 or 6" PN 30
- Filtration rate: Down to 1 micron.

Side stream filtration including a magnetic filter, bag filter, air and dirt separator and dosing unit for extremely high pressure, high flow commercial systems.





Side stream filtration with integrated pump, alarm and BMS compatibility











Max working pressure: 10 Bar

Max system volume: 86,400 litres

• Flow rate: 1.0 l/s

Pipe connection: 1" BSP

• Filtration rate: Down to 0.5 micron

BOSS™ X-POT6+ Side Stream Filtration & Dosing Unit with integrated pump, fault alarm and enhanced BMS compatibility for medium to large commercial systems.











Max working pressure: 16 Bar

Max system volume: 302,400 litres

• Flow rate: 1.0-3.5 l/s

Pipe connection: 2" BSP

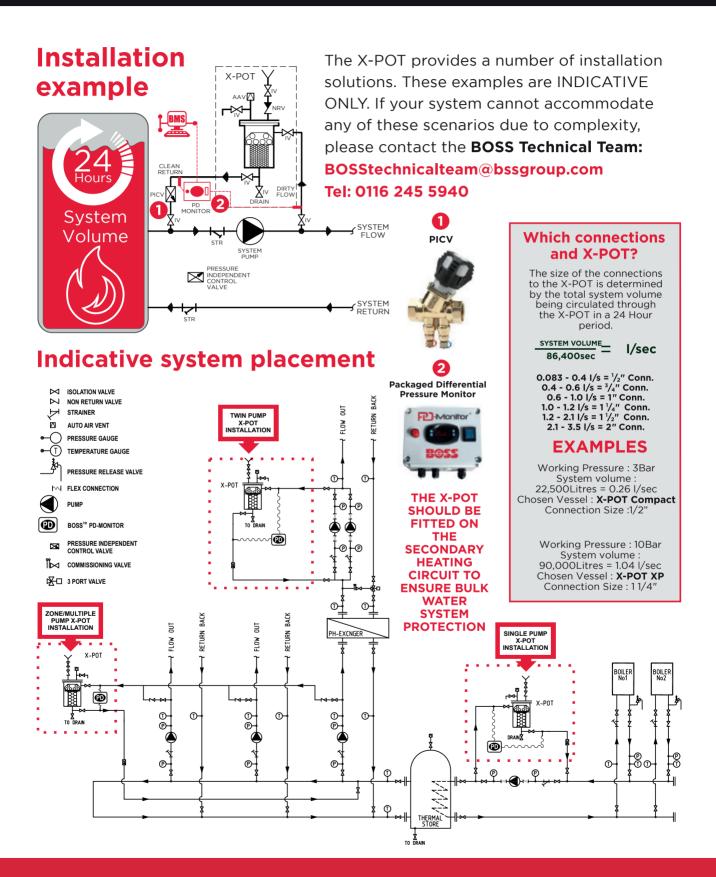
Filtration rate: Down to 1 micron.

BOSS™ X-POT XP+ Side Stream Filtration & Dosing Unit with integrated pump and BMS compatibility for district and data centre systems.





Indicative X-POT Side Stream Filtration Installations





Upgrade your X-POT with a simple and adaptive monitor for system flow issues





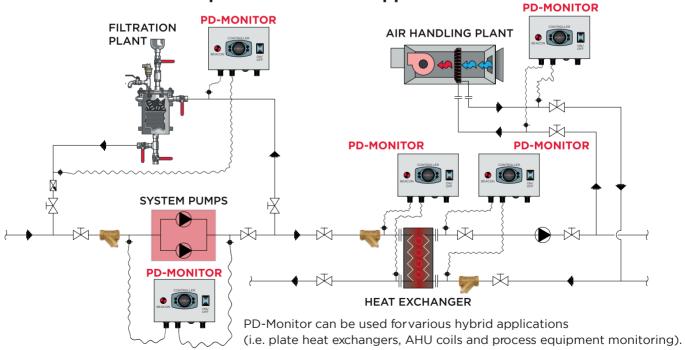




A packaged, wall mounted, and IP54 factory tested differential pressure monitoring unit incorporating controller, two pressure transducers, 240V ac mains cable and BMS capability.

- Remote alarm for blocked X-POT filters
- Modbus RS485
- 30 Bar Max. working pressure
- Can be linked to BMS
- Audible alarm and flashing beacon
- Simple, adaptive monitor for system flow issues

Compatible with all PD applications.





The X-POT Compliance Packs





The X-POT Compliance Pack completes your X-POT installation in accordance with BSRIA BG29/2021 & BG50/21 Best Practice Guidance.

The X-POT Compliance Pack features a pre-settable PICV for simple and accurate commissioning, insulation jacket for the PICV to reduce thermal loss, and the BOSS PD-Monitor to accurately notify of a blocked filter state – ensuring best practice water quality is maintained



BSRIA BG29/21 '6th Edition' & BSRIA BG50/2021 recommends '5% of the circulating water should be diverted through the side stream filter' and 'filters should be easily maintainable and fitted with a differential pressure indicator or BMS sensor'.

X-POT COMPLIANCE PACK VARIATIONS & ORDER CODES



X-POT Compact

DN20 Product Code: 16920750

X-POT6

DN32

Product Code: 16920761

X-POT XP LF

DN50

Product Code: 16920772



Each Compliance Pack contains:

- 1 off Pre-Settable PICV
 (X-POT Compact DN20) (X-POT6 DN32)
 (X-POT XP LF DN50) (X-POT XP HF DN50 Flanged)
- 1 off Insulation Jacket
- 1 off BOSS PD-Monitor 0-30 Bar Modbus



X-POT fine filtration

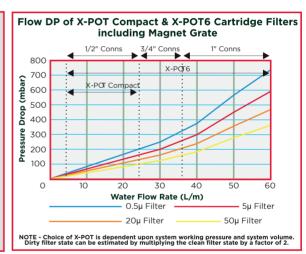
Our range of superior quality filters provides top class filtration, surpassing international Industry Standards.



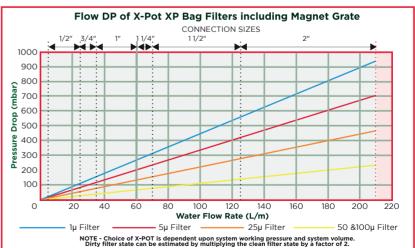
BSRIA BG29/21 '6th Edition' Pre-commission 'Cleaning of Pipe Work Systems' recommends a 5 micron filtration rate. The X-POT utilizes industry leading 0.5 micron Cartridge Filters (10x Finer) and 1 micron Bag Filters (5x Finer), capturing more debris resulting in greater energy savings and prolonged life cycle realisation.

BOSS's industry leading side stream filtration range is fully compliant with BS EN ISO 9001:2015

The water samples below were taken from a 2 year old LTHW Heating System. The system contained a dosing pot (closed off), D&A Seperator and no trace of water treatment chemicals. The system contained corrosion debris. After installing an X-POT and Commercial Inhibitor, the results speak for themselves. Simple and very effective!









The X-POT and ancillary order codes

Order your X-POT, filter or PD-Monitor below by quoting the BSS code (shown in red text) and quantity of units.

REPLACEMENT FILTERS PRODUCT CODES X-POT PRODUCT CODES **PD-MONITOR 16910467 CARTRIDGE FILTERS** CARTRIDGE FILTERS X-POT COMPACT, X-POT6 X-POT COMPACT, X-POT6 & X-POT6+ & X-POT6+ **UNIT & STARTER PACK** (Box of 4) (Box of 20) X-POT Compact 16920824 50µ 16920643 50µ 16920687 **20μ 16920632** 20µ 16920676 X-POT 6 16920835 5u 16920621 5u 16920665 X-POT XP 16920846 0.5µ 16920610 0.5µ 16920654 **UNIT ONLY** BAG FILTERS X-POT XP, X-POT XXP, X-POT XP+, X-POT X-POT 6+ 16920536 HFHP (Box of 5) X-POT XP+ 100µ 16920739 5µ 16920706 16920547 **50μ 16920728** 1µ 16920698 X-POT XXP 16920558 25µ 16920717

Essential for Installation (2 of 2 product)







Exclusive to BSS

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