

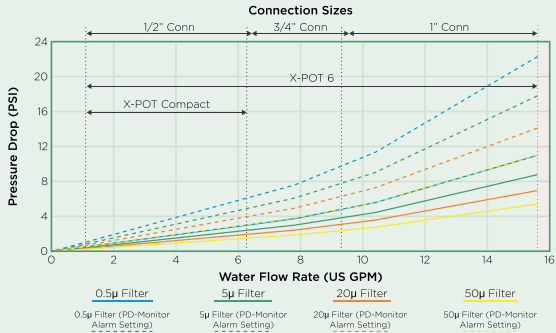
# VE XO X-POT Compact Specification Sheet

<b>Product / Model</b>	X-POT Series/Compact	<b>Art. Code</b>	
<b>Description</b>	Side Stream Filtration and Dosing Unit	<b>Date</b>	
<b>Customer</b>			
<b>Project</b>			
<b>Reference</b>			

## Design Criteria

- Medium:** Water/Glycol (Max 50%)
- Max. System Volume (24/12hrs):** 9,130/4,565 US Gal
- Max. System Btu/h (24/12hrs):** 7.61/3.80 MMBtu/h
- Max. System HP (24/12hrs):** 227/114 HP
- Max. Cooling TONS (24/12hrs):** 609/304 TONS
- Max. Pressure:** 150 PSI
- Min. Flow Rate:** 1.31 GPM
- Max. Flow Rate:** 6.34 GPM
- Max. Temp:** 32°F - 203°F (0°C - 95°C)
- Filtration Rate:** Filtration down to 0.5 Micron (Cartridge Filter)

**ΔP - Pressure Drop:** See below graph



NOTE - Choice of X-POT™ is dependent upon system working pressure and system volume. Dirty filter state can be estimated by multiplying the clean filter state by a factor of 2.

- Mounting:** Wall/Bracket Mounted
- Dosing Capacity:** 1.18 US Gal
- Design Standard:** ASME BPVC VIII Div.1

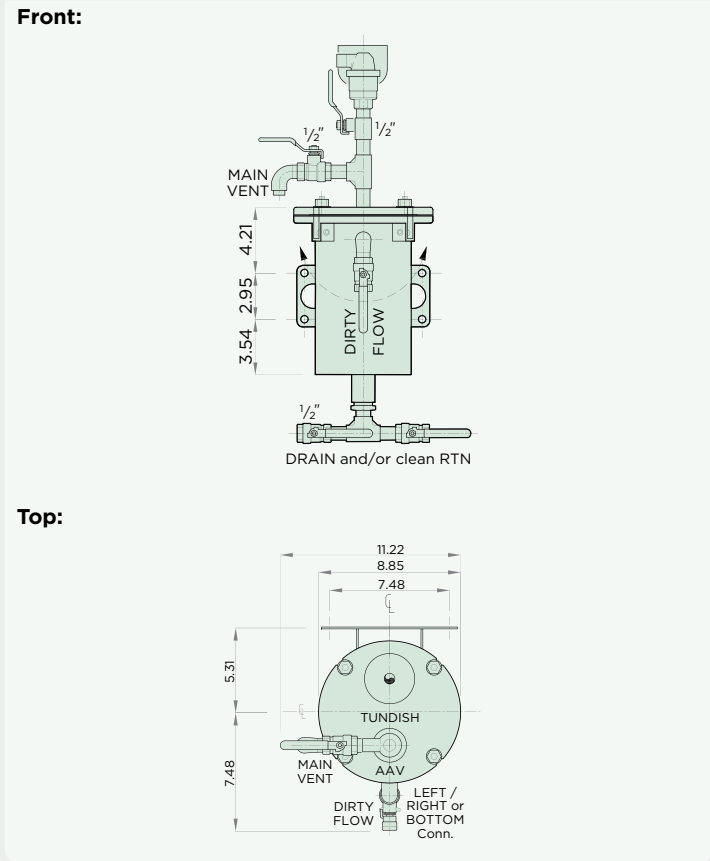
## Testing and Quality Assurance

- Test Pressure:** 225 PSI
- Test Medium:** Air
- Test Certificate:** Yes
- Drawing:** Yes
- Design Compliance:** ASME U Stamp
- Notified Body Inspection:** Yes
- Warranty:** 10 Years
- Industry Peer Reviewed Energy Savings:** Yes

## Construction Materials

- Vessel Body/Lid:** SS 304
- Baffle Plate:** SS 316
- Magnet Grate:** SS 316
- Magnets (4no.):** Neodymium Rare Earth (Encased in SS 304)
- Cartridge Filter:** Polypropylene Spun Bonded Fibre
- Isolation Valves:** SS 304
- AAV:** DZR Brass (CW602N) (Female)
- NRV:** SS 304
- Fittings:** SS 304

## Drawing



## Dimensions

- Overall Height:** 24.80"
- Overall Depth:** 12.79"
- Overall Width:** 11.22"

## Connections

- Isolation Valve:** 1/2" NPTF
- AAV:** 1/2" NPTF

## Volume & Weight

- Volume:** 1.18 US Gal
- Dry Weight:** 38.00 Pounds
- Operational Weight:** 51.00 Pounds

## Accessories

- Pressure Differential Monitoring:** PD-Monitor (Optional)
- Insulation Jacket:** Yes (Optional)

# VEXO X-POT Compact Specification Sheet

## General Description

**A** – The VEXO™ X-POT Compact™ assists in the restoration of water quality and flow rates within Hydronic Heating and Cooling Systems to remain reliable and run at their intended design capabilities, by keeping the thermal fluid within the system filtered, clean and free from suspended particulates and micro-bubbles. This also allows Chemical Inhibitor's and Biocides to remain effective, thus reducing the accumulation of Corrosion, Scale and Bio-film deposits which would otherwise cause flow loss, degradation of plant and pipeline material, as well as reduced system reliability, increased running and reactive maintenance costs, water losses and reduced lifespan of system components. Recent research presented at the CIBSE Technical Symposium in the UK in April 2023 and at the ASHRAE Summer Conference in the US in June 2023 has shed light on the significant energy savings that can be achieved by improving water quality and removing corrosion residuals with X-POT. The results were compelling, showing that poor water quality not only leads to plant failure but also significantly increases pump energy consumption. The X-POT reduced pump energy consumption by an average of 19% in multiple system pressure scenarios.

This is achieved by a combination of functions, as the X-POT™ acts as an all-in-one:

- Dirt & Air Separator
- Magnetic Filter
- Side Stream Filter (down to 0.5 micron)
- Shot Feeder (For adding Water Treatment Chemicals)

**B** – This section specifies cleaning and treatment of circulating HVAC water systems, including the following:

- I. Closed Loop Cooling Systems
- II. Closed Loop Heating Systems

## Product Description - Side Stream Water Filtration and Treatment Device

**A** – The Contractor shall furnish and install a full side stream filtration device that incorporates an industry peer reviewed 'all-in-one', shot feeder, magnetic filter and air and dirt separation device as shown and detailed on the contract documents. The product provided shall be the VEXO™ X-POT Compact™ manufactured by VEXO International ([www.vexo.com/us](http://www.vexo.com/us)) and exclusively supplied by Skidmore of Benton Harbor, MI or an approved substitution.

**B** - The product shall be all stainless steel construction including all valves and fittings. Maximum working pressure shall be 150psi with flow rates up to 6.34 GPM with a temperature range of 32°F to 200°F. Dosing capacity shall be a minimum of 1.18 Gallons and Cartridge Filtration range to be no less than 50µ to 0.5µ (bag filters are not acceptable). Magnetic filtration shall consist of no less than four (4) rare earth magnets - four (4) with a minimum of 26.5 lbs pull force each - designed for easy removal and cleaning. Air separation efficiency to be 100% removal to micro-bubble level and incorporate an automatic air vent. Total system volume capacity shall be no less than 9,130 Gallons. The product must be provided with 1/2" isolation and drain valves and have an option for an insulation jacket with filter PD condition alarm installed to notify of timely filter changes and alert to water quality.