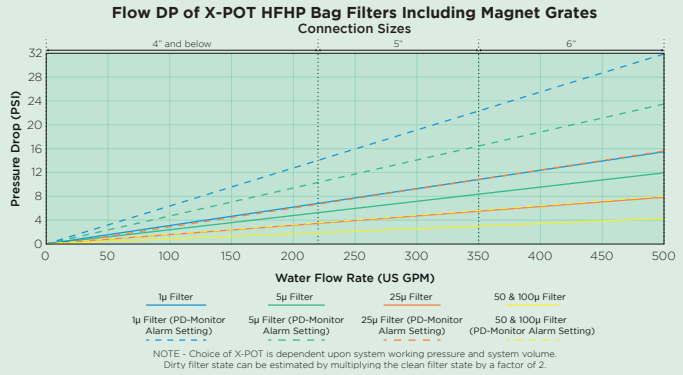
VEXO X-POT HFHP 150 PSI Specification Sheet

Product / Model	X-POT Series/HFHP 150 PSI	**Art. Code**	
Description	Side Stream Filtration and Dosing Unit	**Date**	

Customer	
Project	
Reference	

Design Criteria

Medium: Water/Glycol (Max 50%)
Max. System Volume: 684,733.96 US Gal
Max. Pressure: 150 PSI
Max. Flow Rate: 475.51 Gal/M
Max. Temp: 32°F - 203°F (0°C - 95°C)
Filtration Rate: Filtration down to 1 Micron (Bag 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: Floor Standing
Dosing Capacity: 40 US Gal
Design Standard: ASME BPVC VIII Div.1

Testing and Quality Assurance

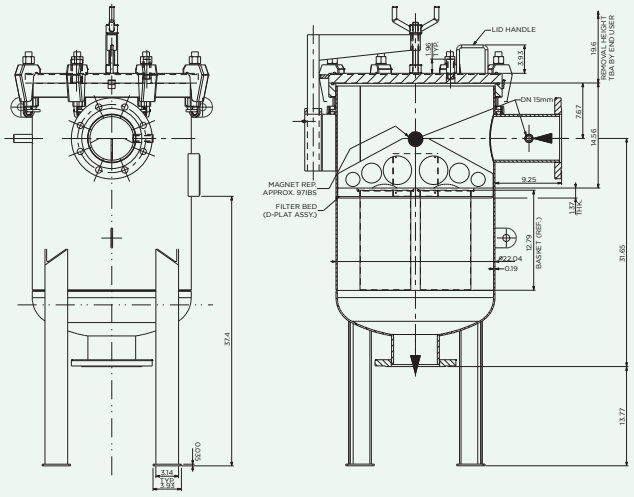
Test Pressure: 225 PSI
Test Medium: Air
Test Certificate: Yes
Drawing: Yes
Design Compliance: ASME BPVC U-Stamp
Notified Body Inspection: Yes
Warranty: 10 Years
Industry Peer Reviewed Energy Savings: Yes

Construction Materials

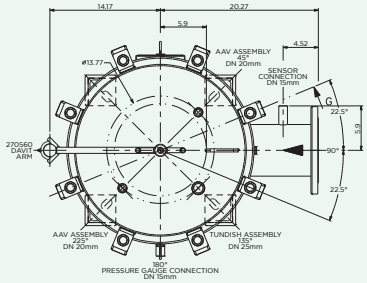
Vessel Body/Lid: SS 316
Baffle Plate: SS 316
Magnet Grate: SS 316
Magnets (52no.): Neodymium Rare Earth (Encased in SS 304)
Bag Filter: Polypropylene Needlefelt Type 19-2G
Isolation Valves: SS 316
AAVs: SS 316
NRVs: SS 316
Fittings: SS 316

Drawing

Front & Side:



Top:



Dimensions

Overall Height: 73.09”
Overall Depth: 35.00”
Overall Width: 30.31”

Connections

Flange Connections: 6” PN10 Flanged
AAV: 1/2” NPTF

Volume & Weight

Volume: 37.8 US Gal
Dry Weight: 315 Pounds
Operational Weight: 430 Pounds

Accessories

Pressure Differential Monitoring: PD-Monitor (Optional)

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General Description

A – The VEXO™ X-POT HFHP™ 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, X-POT has valid peer reviewed white papers - detailing potential energy savings.

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 1 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 HFHP™ manufactured by VEXO International (www.vexoint.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 150 PSI with flow rates up to 475.51 GPM with a temperature range of 32°F to 200°F. Dosing capacity shall be a minimum of 37.77 Gallons and Bag Filtration range to be no less than 50µ to 1µ (cartridge filters are not acceptable). Magnetic filtration shall consist of no less than fifty-two (52) rare earth magnets - thirty-two (32) with a minimum of 26.5 lbs pull force each, and twenty (20) with a minimum of 35 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 684,733.96 US Gal.