**VEXO**™ **X-POT HFHP**® **150 & 435 PSI Spec**

**General Description**

**A** – The VEXO™ X-POT HFHP® 150 or 435 PSI 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:

* Closed Loop Cooling Systems
* 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® 150 or 435 PSI 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 150/435psi accordingly 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 Gallons.