HEAT TRANSFER FLUID & OIL FILTRATION SYSTEM

- Reduce Fouling
- Control Degradation
- Minimize Unscheduled Maintenance
- Increase Heat Transfer Efficiency
- Clean Fluids Without Disrupting System Operation
- Reduce Wear of Seals, Pumps, Valves
- Reduce Overall Heat Transfer Fluid Cost
- Increase Production Rates

Patent # 6221246

VECTOR SERIES WITH BYPASS

Flow Rates 5 USGPM and 15 USGPM or 19 LPM and 57 LPM

LIQUID PROCESS SYSTEMS, INC.

1025-A Technology Drive
Indian Trail, NC 28079-7523

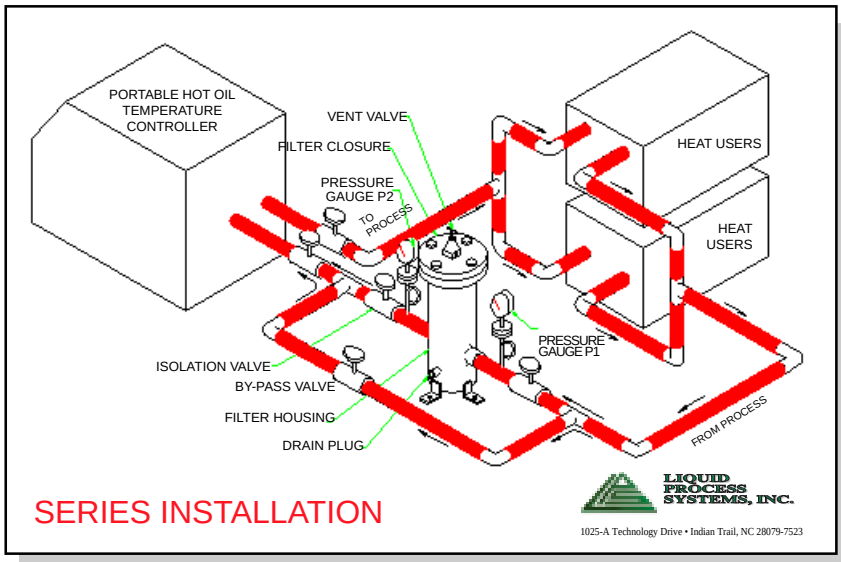
Telephone: (704) 821-1115
Fax: (704) 821-1190
Website: www.lps-filtration.com

TO 650°F or 345°C & 150 PSIG or 10.5 BAR

VECTOR WITH BYPASS SERIES SPECIFICATIONS

MODEL	FLOW RATE	INLET/ OUTLET	ESTIMATED DIMENSIONS WxLxH IN/CM	WEIGHT LBS KG	NO. of ELEMENTS*
VA10C-BP	5 USGPM or 19 LPM	1" or 25.4 MM	13"x13"x24" 33x33x61 CM	100 LBS or 45 KG	1
VB10C-BP	15 USGPM or 57 LPM	1" or 25.4 MM	13"x13"x44" 33x33x112 CM	120 LBS or 54 KG	1

**Elements range from 100, 50, 25 and 10 microns particle size removal.*



The patented Vector filter system is designed for immediate incorporation, on a side stream and continuous basis, as part of a heat transfer fluid recirculation system. Installed on the filter are inlet and outlet gate valves on either side of the filter and a bypass globe valve for constant circulation of the oil around the filter. The bypass valve is always left open to maintain flow through the system as the filter element gets loaded with carbon, coke and sludge.

The element is replaced without shutting down the heating system. The inlet and outlet valves are shut off, maintaining flow through the bypass. The filter is cooled and the element removed and replaced with a new one. To re-commission the filter, tighten and torque the top closure plate, open the valves on the filter and purge any air from the housing through the vent valve on top. The filter is now "on line."

Filtration on existing systems can be initiated at 100 to 50 microns and reduced down over time to 10-micron particle removal. On new systems, filtration can be initiated at 10-micron particle removal.