

# HP®1220HFSYS

## SYSTEM SPECIFICATION SUMMARY

**HP®1220HFSYS** Liquid Phase Ion Exchange Systems are designed to treat a wide range of contaminated process streams. Piping and valves are configured for series, parallel, or vessel isolation flows. System includes inlet and outlet piping, and backwash capabilities. The system consists of two (2) vessels, with all piping, valves, and gauges assembled for ease of operation. Each vessel is equipped with an underdrain capable of a maximum flow rate of 2,000 GPM.

### EACH VESSEL:

Vessel Diameter.....	144"
Side Shell Height .....	60"
Overall Height (Approx.).....	16'-4"
Maximum Working Pressure .....	125 psi @ 150 °F
Manway:	
Flanged at side shell .....	24"
Elliptical type at head .....	14" x 18"
Vessel Volume.....	7,520 gal.
Resin Bed Volume-Typical .....	300-600 Ft <sup>3</sup>
Maximum Flow Rate .....	2,000 GPM
ASME Code Stamping .....	YES
Material.....	Carbon Steel
Supports .....	Legs and Baseplates
Lifting.....	Lifting Lugs
Seismic.....	IBC 2009
Interior Surface Prep.....	SSPC-SP5
Interior Surface Coating.....	Plasite 4110 35 mil dft min
Exterior Surface Primer.....	Rust Preventative Epoxy 4 mil min dft
Exterior Surface Coating.....	High Solids Urethane 3mil min dft
Standard Color.....	Cashew #9225

### UNDERDRAINS:

External Ring Header.....	12" Carbon Steel
Screens .....	8 ea. 316L Stainless Steel V-Wire X-Box Screens 6 5/8" dia. x 12"

### VALVE ASSEMBLY AND PIPING:

#### Piping:

Process Piping.....	12" Carbon Steel
Resin Transfer Piping .....	4" Schedule 40 Lined Carbon Steel

#### Valves:

Process.....	12" Butterfly, Cast Iron Body w/Stainless Disk, Gear Operator
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Resin Transfer..... 4” Flanged 316 Stainless Steel Full Port Ball Valve  
Vent/Wash..... 2” Bronze Ball Valve  
Sample Ports (3) ..... 1/2” Bronze Ball Valve

**SYSTEM WEIGHT:**

System Shipping weight (Two Vessels Piping & Manifold) ..... 43,500 lbs.  
Operating Weight ..... approx. 169,000 lbs.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT YOUR NEAREST  
CARBON SERVICE BRANCH AT:

**866-613-5620**

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