

Vertical In-line HVAC Pumps



Close-Coupled Configuration

Patterson EnviroFlo™ vertical in-line HVAC pumps, with a legacy of quality and durability, offer reliability and full flexibility to serve all applications and overcome constraints.

BENEFITS

- High-efficiency design minimizes energy consumption
- Back pullout configuration for easy access and maintenance
- Gauge taps at the suction and discharge connections for complete monitoring flexibility
- Annular pressure reducing clearance with impeller balance holes to reduce axial thrust
- Precision-cast, dynamically balanced impeller minimizes vibration and maximizes bearing life
- Precision bearings and machining limit shaft deflection to only 0.002" at the seal face

FEATURES

- Flows to 2,500 GPM, heads to 400' TDH
- Split coupling design above 5 HP optional
- Double suction impeller on largest sizes (12" and 14")
- Machined mounting support surface
- Standard case wear ring
- Grease-lubricated motor bearing
- Mechanical seal is standard in carbon vs. silicon carbide (optional: tungsten carbide) with seal flush lines
- Every pump hydrostatically pressure-tested
- Optional 250-lb discharge flanges and external seal flush lines available on many models
- Bronze fitted construction with bronze shaft sleeves standard; optional stainless steel shaft and stainless steel sleeve available



ENVIROFLO
HYDRONIC PUMPING SOLUTIONS

Pumping Technology for Tomorrow's World
Patterson

SPECIFICATIONS: CLOSE-COUPLED

Pumps shall be high efficiency vertical in-line close-coupled design. The pumps shall be of the pullout design, single stage, and capable of being serviced without disturbing piping connections.

The pump volute case shall be class 30 cast iron. The pumps shall have case wear rings. The pumps shall be rated for a minimum of 175 psi working pressure (optional: 250 psi, many models). Casing shall have tapped holes on the suction and discharge to accommodate gauges, fittings, and drain ports.

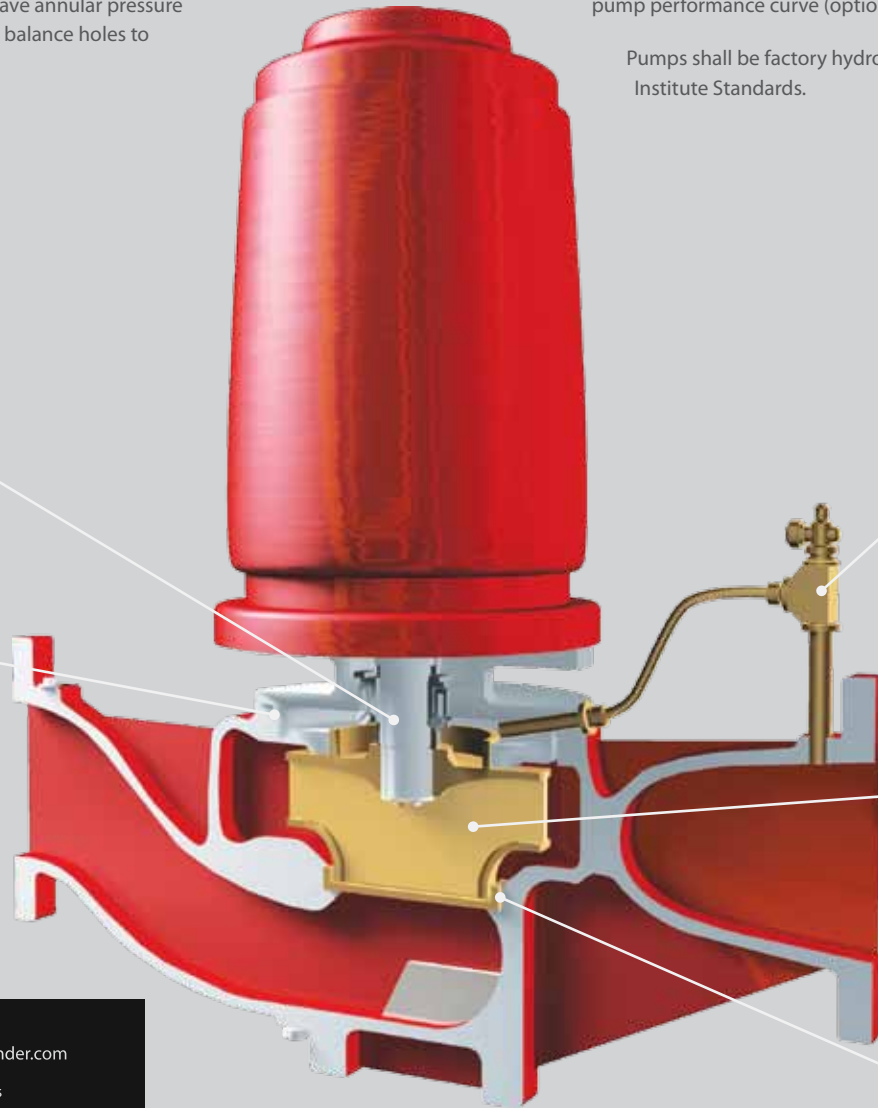
Impellers shall be precision-cast and dynamically balanced and shall be of the enclosed type, non-leaking brass and keyed to the shaft. The impellers shall have annular pressure reducing clearance with impeller balance holes to reduce axial thrust.

Pumps shall be designed for a maximum shaft deflection of 0.002" at the seal face.

The pumps shall have a replaceable bronze or stainless steel shaft sleeve and shall cover the liquid area under the seal. The pump shall have a mechanical seal type carbon vs. silicon carbide with seal water flush line (optional: tungsten carbide).

Motors shall be EPAC/Nema rated and shall be of the size, voltage, and enclosure (ODP/TEFC) as outlined in the plans and specifications. The motor shall be non-overloading throughout the entirety of the pump performance curve (optional: premium efficiency).

Pumps shall be factory hydrostatically tested per Hydraulic Institute Standards.



Designed for maximum shaft deflection of 0.002" at the seal face

External seal flush line

Registered fits at the volute cover maintain pump alignment

Precision-cast, dynamically balanced impeller

Casing rings provided to protect casing from wear

Size One!

Log on to www.pattersonpumpfinder.com

- View dynamic curves
- Generate system resistance curves
- Download data sheets
- Submit RFQs

Registration required; free 21-day trial.

PATTERSON PUMP COMPANY
 A Gorman-Rupp Company
 Post Office Box 790 • Toccoa, Georgia 30577
 (706) 886-2101
 E-mail: marketing@pattersonpumps.com
www.envirofloppumps.com

Pumping Technology for Tomorrow's World
Patterson[®]