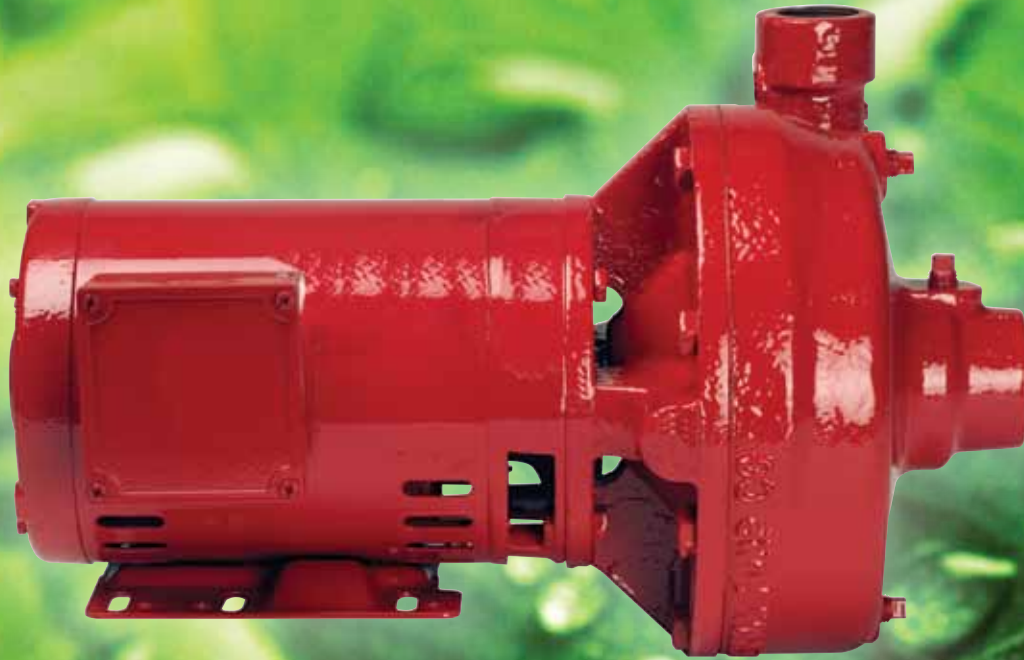


# End Suction HVAC Pumps



## Close-Coupled Configuration

Patterson EnviroFlo™ end suction HVAC pumps offer a high-efficiency design that minimizes energy consumption, and their back pullout configuration provides easy access for maintenance without disturbing piping connections.

## BENEFITS

- 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 450' TDH
- Standard case wear ring and grease-lubricated bearings
- Standard silicon carbide mechanical seal (optional: tungsten carbide) external seal flush line
- Every pump hydrostatically pressure-tested
- Bronze fitted construction with bronze shaft sleeves standard
- Machined mounting surfaces (optional: c-channel base)



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## SPECIFICATIONS: CLOSE-COUPLED

Pumps shall be high efficiency, end suction, close-coupled design. The pumps shall be of the back 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 bronze case wear rings and grease lubricated bearings.

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.

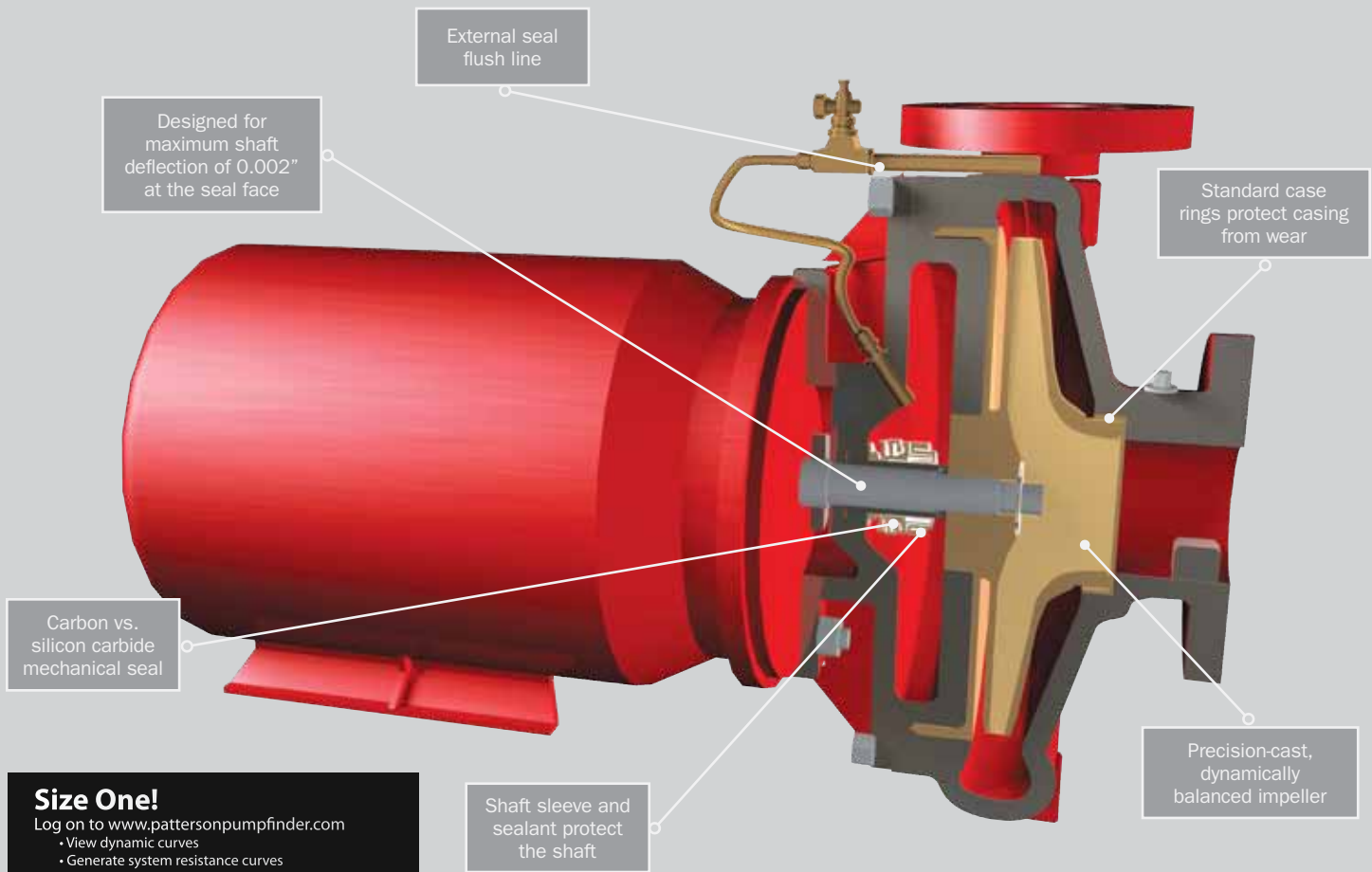
The pumps shall have a replaceable bronze or stainless steel shaft sleeve and shall cover the liquid area under the seal. The pump shall have a mechanical seal type carbon vs. silicon carbide with seal water flush line (optional: tungsten carbide).

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

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.

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).

Each pump shall be factory hydrostatically tested per Hydraulic Institute Standards.



### Size One!

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**PATTERSON PUMP COMPANY**  
A Gorman-Rupp Company  
Post Office Box 790 • Toccoa, Georgia 30577  
(706) 886-2101  
E-mail: [marketing@pattersonpumps.com](mailto:marketing@pattersonpumps.com)  
[www.enviroflopumps.com](http://www.enviroflopumps.com)

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