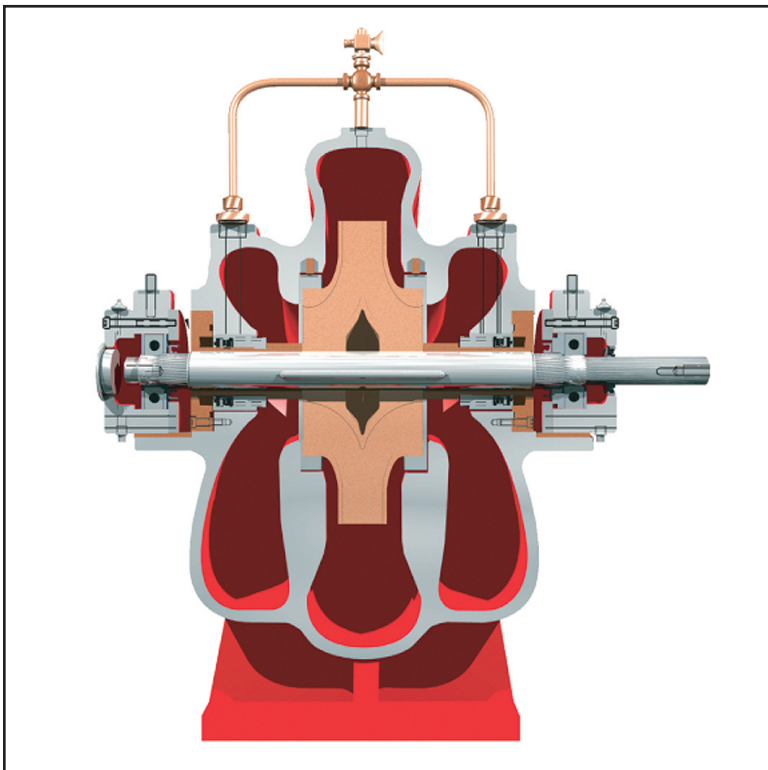
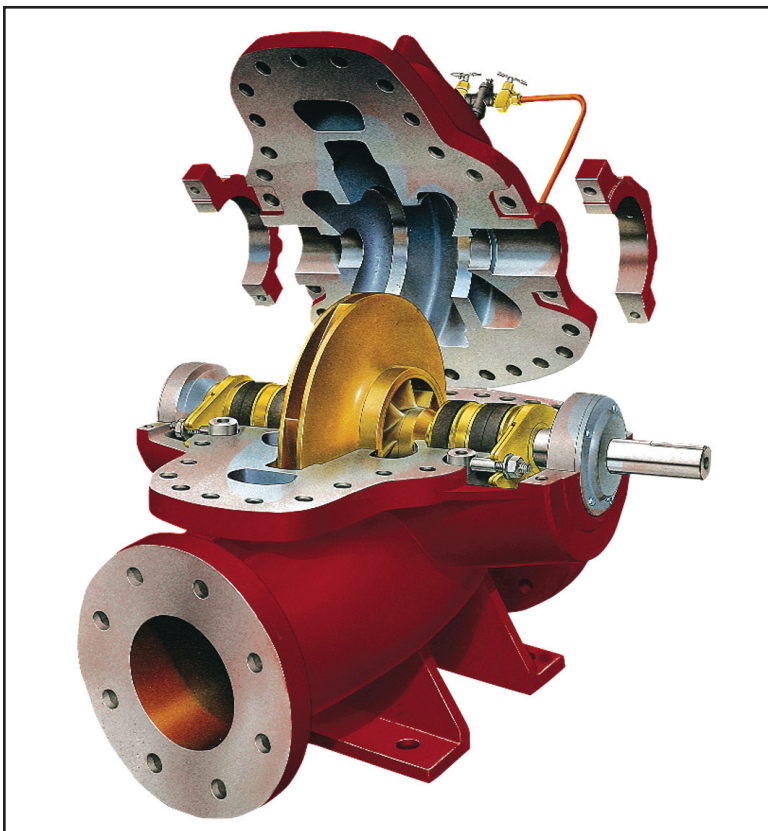


PRODUCT SPOTLIGHT OF THE MONTH

Patterson's Design Extends Useful Life of the Horizontal Split Case HVAC Pump



Note Patterson's shortened distance between inboard and outboard bearings to reduce cantilever effect on the pump shaft and cut deflection at the seal faces.



Patterson's horizontal split case pump offers a clear view of the entire rotating element.

Patterson Pump Company's ProMax® Horizontal Split Case HVAC Pumps offer a high-efficiency design that minimizes energy consumption and easy serviceability without disturbing piping connections. Their precision cast, dynamically balanced impeller minimizes vibration and maximizes bearing life. Durable flex coupling absorbs vibration, and precision bearings and machining limit shaft deflection to only 0.002 in. at the seal face. Flows to 6,000 GPM, with heads to 160 ft. TDH, are offered.

James B. (Burt) Rishel, P.E.—well-known and highly regarded pump consultant for over 50 years—considers the modern version of the century-old horizontal centrifugal pump the foremost workhorse of the HVAC pump industry, and Patterson's design the best for extended life and most efficient service.

This is how Burt puts it:

"If a lot of water has to be moved efficiently and with a minimum of fuss, no other pump can outperform the horizontal split case. Here is why:

- **Room.** The horizontal split case pump takes up less room than other types if you take into consideration the space needed to repair them, particularly the vertical split case pump. Just because the suction and discharge nozzles stick out the sides of the pump does not mean the total room needed is greater. Actually the HSC pump requires less total space than the vertical split case pump.

- **Inspection.** The HSC can be opened for inspection right over the lower casing without disturbing the motor or piping, while the vertically split case pump must have its rotating element pulled into an area at the end of the pump. Flip the lid on the HSC pump and you have a clear view of the

entire rotating element. You can turn it in place and see if there is dirt present or any damage to the element.

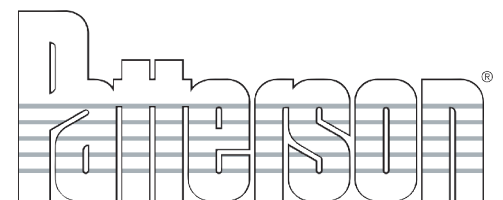
- **One Man Repair.** So easy with the HSC pump; a real bear with the vertically split pump. One man can repair the HSC pump for most HVAC sizes.

- **Longest Life.** Radial and axial thrusts wear out pumps. Patterson has an exceptional design for extending the useful life of the HSC pump. A cutaway look at their design shows how they have shortened the distance between the inboard and outboard bearings to reduce the cantilever effect on the pump shaft and cut the deflection at the seal faces. The results: longer seal life and fewer problems with case rings.

- **Efficiency.** With the double suction impeller and one-half as much flow through each suction, you have the foundation for the highest possible pump efficiency. A survey of Patterson's catalog will show their horizontal split case pump has an efficiency as high as—or higher—than any other pumps normally used in the HVAC field.

"Give careful consideration to these five advantages of the horizontal split case pump. Specify it and you will achieve the ultimate in pump quality and first cost on any project."

PATTERSON PUMP COMPANY



A Subsidiary of The Gorman-Rupp Company

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