

ROTO-JET® VSR
HYPER-DRIVE™



FLEXIBLE DESIGN. PROVEN PERFORMANCE.

The Roto-Jet® VSR Hyper-Drive™ combines the proven hydraulic performance of the Roto-Jet® with an integrated direct-drive system built around standard induction motor technology. Designed for demanding process applications, it delivers precise variable-speed operation, installation flexibility, and simplified ownership while maintaining the high-pressure performance that defines the Roto-Jet platform.

Whether optimizing an existing process or designing a new installation, the VSR Hyper-Drive provides the flexibility to configure a single pumping platform around your application's requirements.

ADAPT TO YOUR PROCESS

Process requirements rarely remain static. Variable-speed operation allows the VSR Hyper-Drive to match pump performance to changing system demands, enabling operators to optimize flow, head, and pressure while maintaining reliable operation across a broad operating range.

INSTALLATION WITHOUT COMPROMISE

The integrated direct-drive design eliminates external gearboxes, flexible couplings, and field alignment while reducing the overall equipment footprint. Designed to fit common competitor footprints, the VSR Hyper-Drive simplifies retrofit installations by minimizing modifications to existing piping and foundations. Available in both horizontal and vertical configurations, it provides flexibility for both replacement projects and new installations.

SIMPLIFIED OWNERSHIP

With fewer mechanical systems to maintain, the VSR Hyper-Drive simplifies long-term service. Familiar industrial components, no gearbox or coupling upkeep, and proven Roto-Jet hydraulics help reduce lifecycle complexity while maintaining dependable performance.

Direct-Drive Advantages:

- No external gearbox
- Reduced installation footprint
- No flexible couplings
- Fewer mechanical components
- No field alignment
- Simplified maintenance



DESIGNED AROUND FLEXIBILITY



Horizontal or Vertical Installation



High-Pressure Single-Stage Performance



Standard Induction Motor



Variable-Speed Operation



Compact Integrated Package



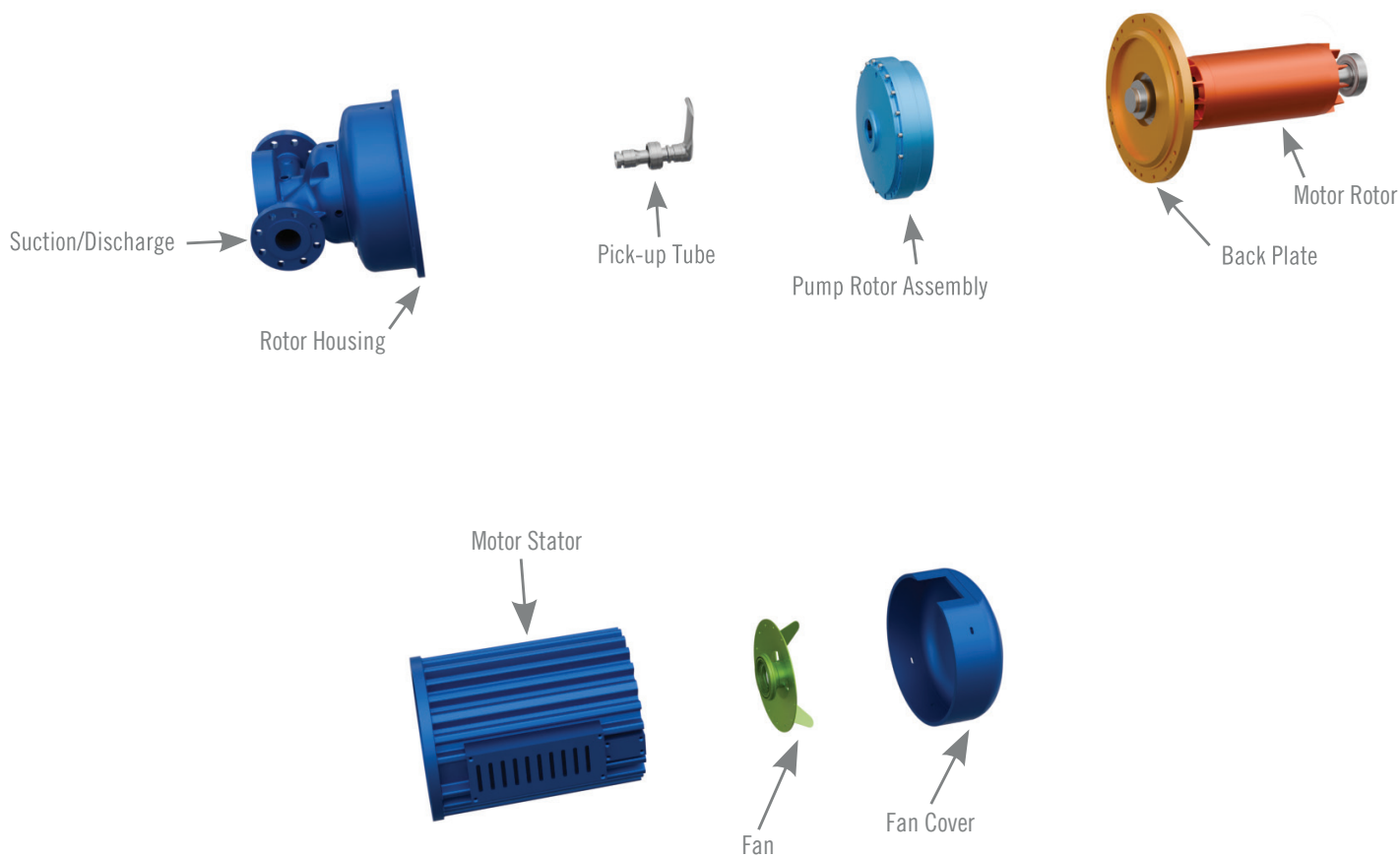
Fits Competitor Footprint



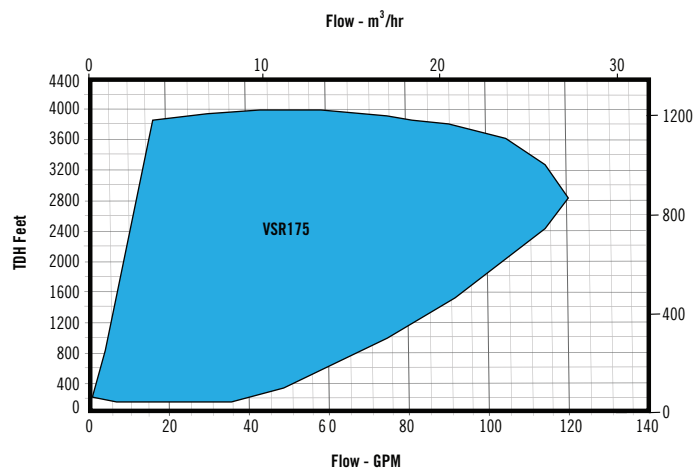
Worldwide 50/60 Hz Compatibility

ONE PLATFORM, ENDLESS POSSIBILITIES.

The VSR Hyper-Drive is designed to provide a single pumping platform that can be configured around the needs of the application. Rather than selecting different drive arrangements for different operating conditions, operators can tailor pump performance through variable-speed operation while maintaining the proven Roto-Jet hydraulic design.



Roto-jet VSR Hyper-Drive Curve



Roto-Jet VSR Hyper-Drive Performance Capabilities

Maximum flow	125 gpm	28 m³/hr
Maximum head	4000 ft	1200 m
Maximum suction pressure	50-200 psi	3.5-14 bar
Maximum suction temperature	180° F	82° C
Maximum suction temperature with flush	250° F	121° C
Maximum speed	5443 rpm	

STANDARD TECHNOLOGY. INTELLIGENT CONTROL.

The Roto-Jet VSR Hyper-Drive is designed for operation with a Variable Frequency Drive (VFD). The VFD is not integral to the pump and is mounted separately — it can be supplied by Trillium as part of a complete package or provided by the customer to suit existing site standards.

FLEXIBLE DRIVE SOURCING

The VFD adjusts motor speed by varying voltage and frequency, allowing the pump to operate at the precise speed required for the application. Because the drive is a separate, panel-mounted component rather than an integral one, it can be supplied by Trillium or sourced by the customer to match existing site standards.

SOFT STARTING AND STOPPING

Gradual acceleration and deceleration minimize inrush current and reduce mechanical stress during startup and shutdown.

PRECISE PROCESS CONTROL

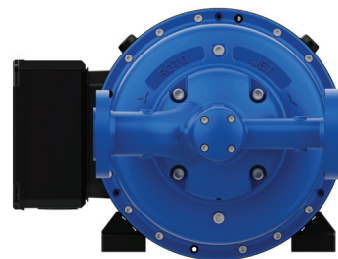
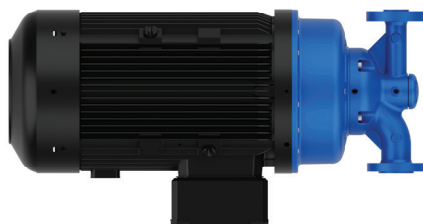
Advanced VFD functionality enables accurate speed regulation to support applications requiring consistent flow or pressure.

EFFICIENT OPERATION

Matching pump speed to process demand allows the VSR Hyper-Drive to operate efficiently across a wide operating range.

PROVEN MOTOR TECHNOLOGY

A squirrel-cage induction design with no brushes or commutators delivers dependable operation with minimal maintenance, using components familiar to any plant maintenance team.



NOTES:



Support for the Life of Your Pump

Keep your equipment operating reliably with OEM replacement parts, repairs, field service, and technical support. Our aftermarket team helps extend equipment life, improve performance, and reduce unplanned downtime.

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