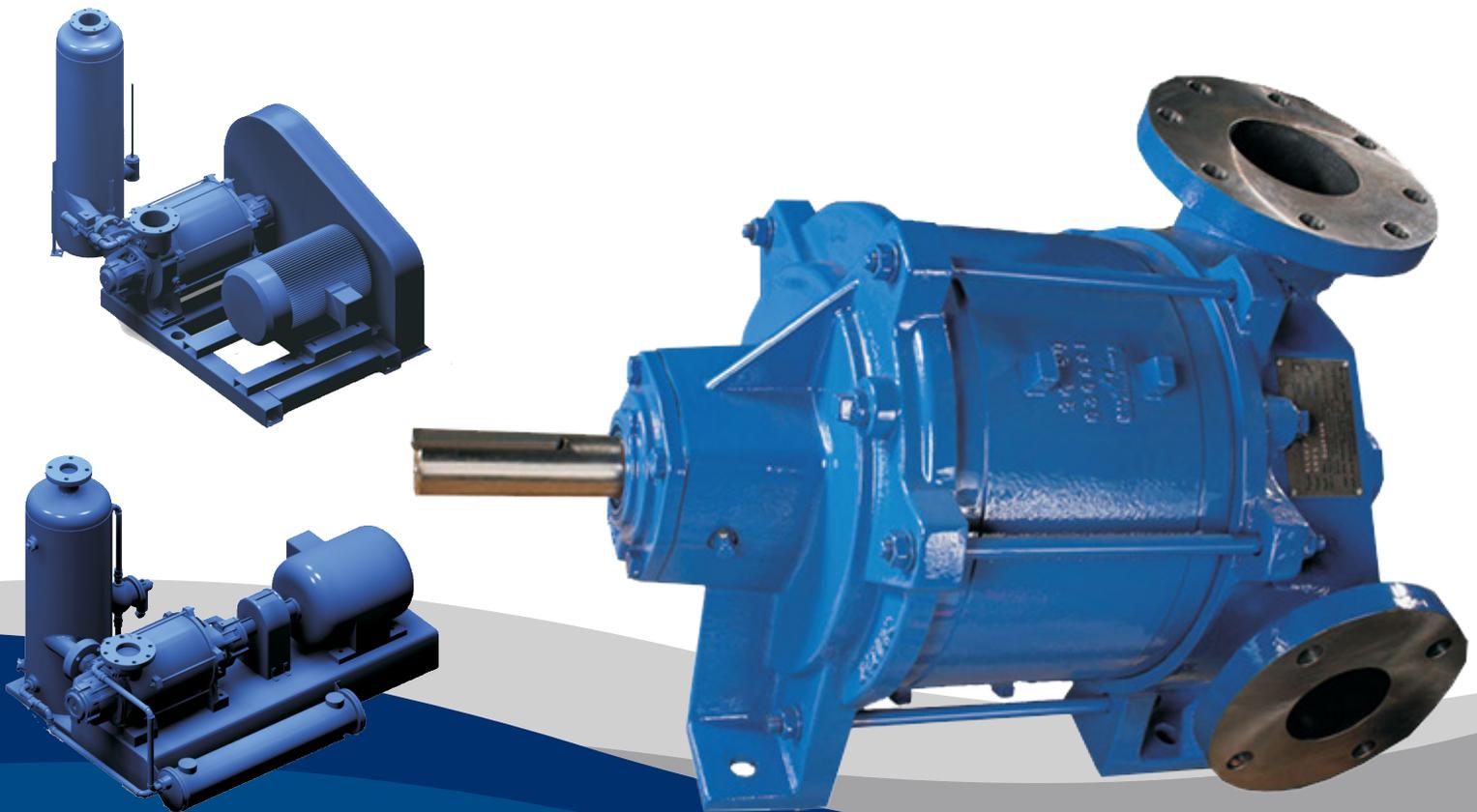
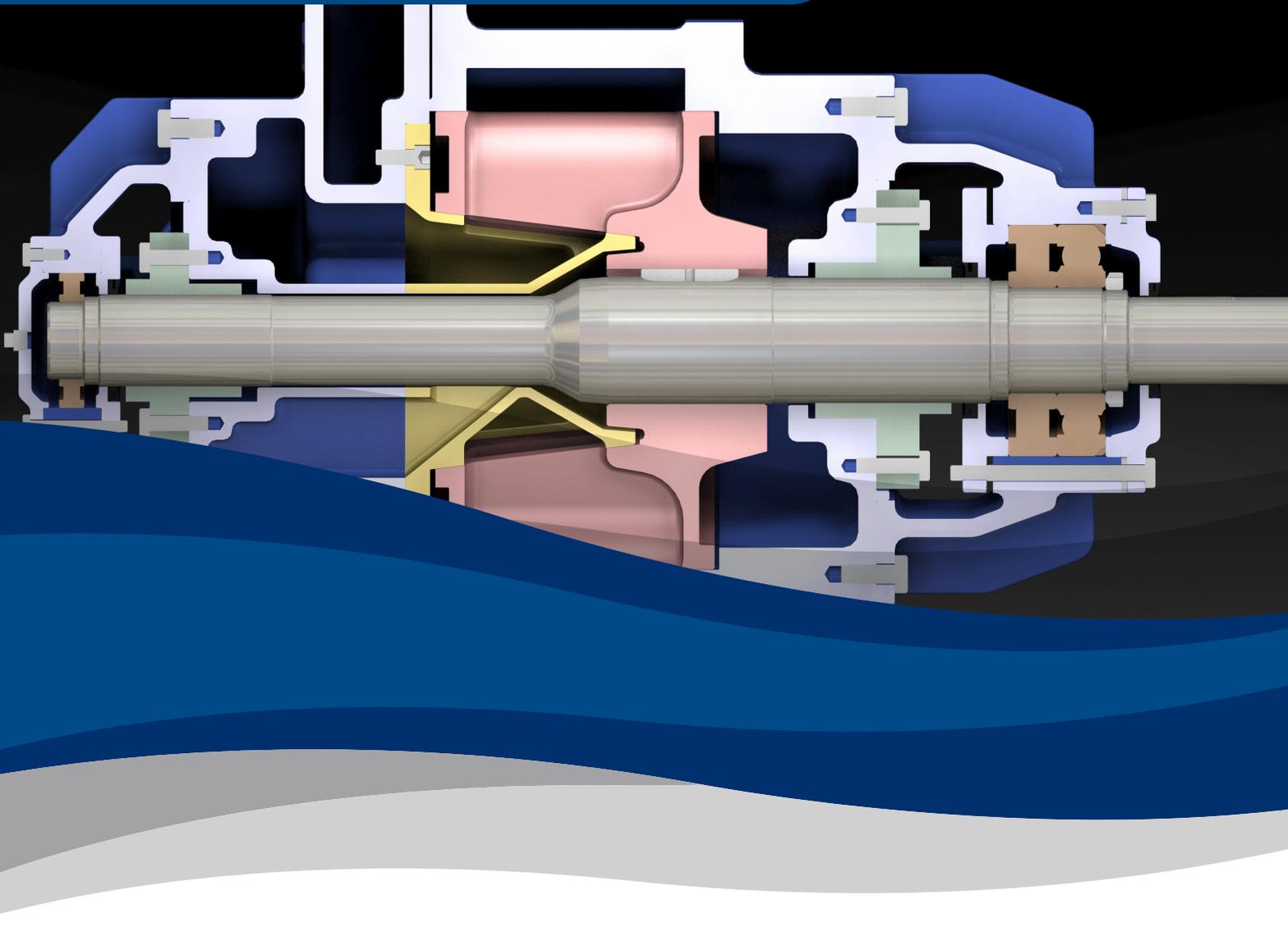




LIQUID RING PUMPS, COMPRESSORS & SYSTEMS

VECTRA GL SERIES





NASH VECTRA GL SERIES

Pumps, Compressors & Systems

NASH liquid ring vacuum pumps are known as tireless workhorses, designed to stand up to the rigorous, nonstop demands of harsh industrial environments. Built better than industry standards, NASH pumps have been known for their reliability for over 110 years.

The Vectra GL series combines the highest standard of this reliability with a new level of ingenuity. Nash employs advanced design technologies to achieve optimum performance and unprecedented production efficiencies. As a result, Vectra GL pumps are economical and provide great value to our customers.

Designed based on customer defined market requirements; and the input from R&D, manufacturing, marketing, and most importantly, process engineers, the Vectra GL series is a revolutionary line of pumps tough enough to be branded NASH.

Need efficient and reliable vacuum solutions? You need NASH.

NASH LIQUID RING TECHNOLOGY ADVANTAGES

Cool Running

- Safe handling of process gases

One Moving Part

- Long term reliability

Quiet Operation

- Improved work environment

Handles Liquid Carryover

- Minimizes process downtime

NASH CERTIFIED™ 2-Year Performance Guarantee

RELIABLE TECHNOLOGY FOR DEMANDING INDUSTRIAL PROCESSES

Based on over 110 years of engineering expertise, the Vectra GL series delivers patented features and design elements that only the NASH engineering team can provide.

- NASH Patented Gas Scavenging - Increased High Vacuum Performance
- Meets High Combustible Range Standards
- Improved Cone Design - Decreased Pump Size

PACKAGED SYSTEM SOLUTIONS

Our packaged system offers NASH engineered solutions in a pre-configured design for fast turnaround, and delivery in as little as 6 to 8 weeks depending on pump stock availability .

- Pre-engineered Solutions
- Quick Delivery
- Configured to Meet the Demands of a Wide Range of Industrial Applications
- Plug & Play Installation

DEPENDABLE & EFFICIENT PERFORMANCE FOR A WIDE RANGE OF INDUSTRIAL APPLICATIONS

HIGH VACUUM

- Bottling
- Central Vacuum Systems
- Chucking
- Deaeration/Degassification
- Distillation
- Ethanol Evaporation
- Evisceration
- Fiber Molding
- House Vacuum
- Packaging
- Paper Converting
- Poultry Processing
- Wood Treatment

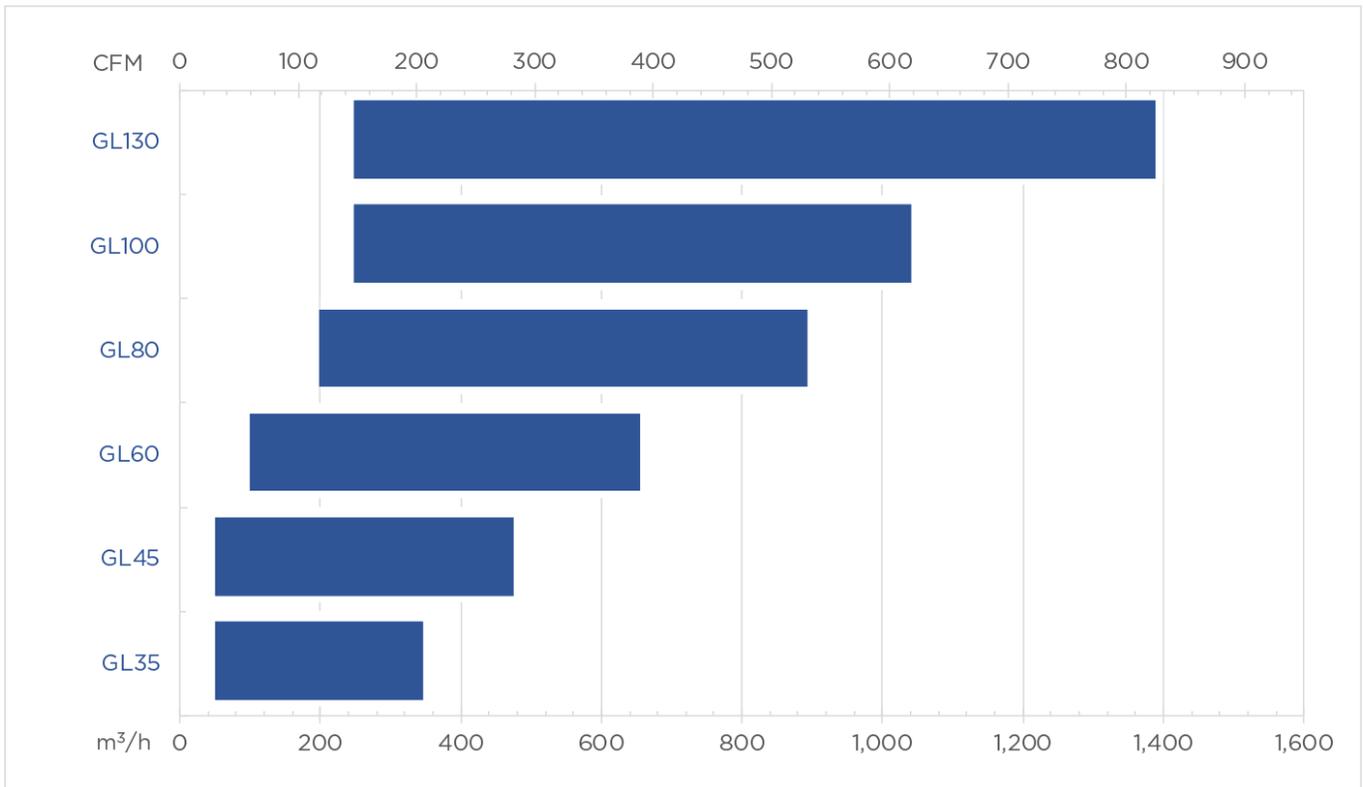
COMPRESSOR

- Wastewater Treatment
- Digester Gas
- Aeration
- Gas Boosting



VECTRA GL LIQUID RING VACUUM PUMPS & COMPRESSORS

INDUSTRIES & APPLICATIONS	designed to stand up to harsh environments found in a wide range of industries
MATERIALS OF CONSTRUCTION	ductile iron only
TECHNOLOGICAL ADVANCEMENTS	patented cone design & rotor configuration
DESIGN SPECIFICATIONS	designed to excel in applications requiring discharging against positive back pressure



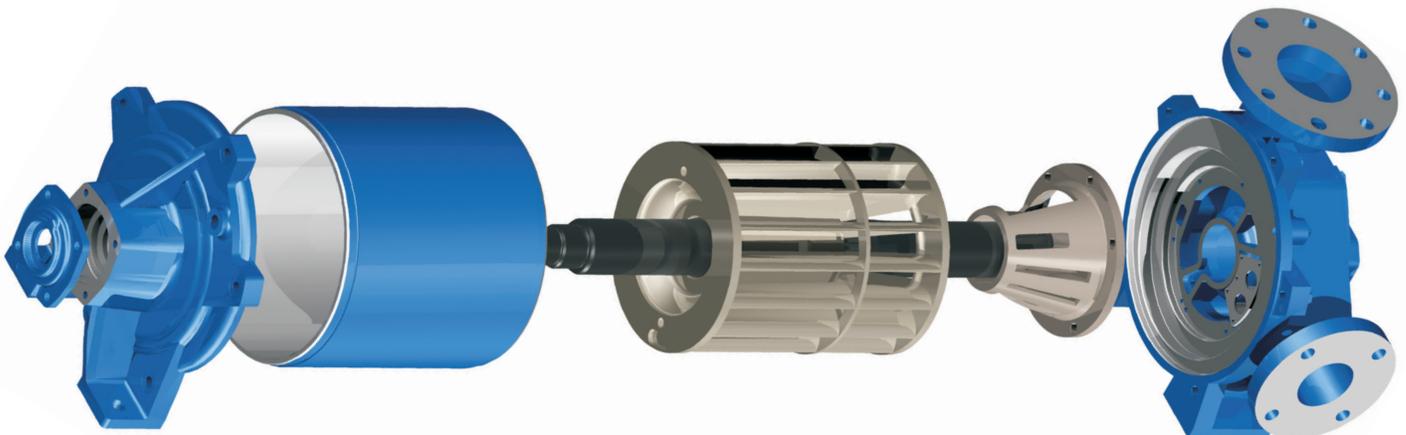
PERFORMANCE	SPECIFICATIONS
VACUUM RANGE	0-29in. Hg; to 33 mbar abs.
MECHANICAL SEAL	single
DIFFERENTIAL PRESSURE	15 psi/1 bar
COMPRESSOR PRESSURE	15 psig/2 bar abs.
HYDROTEST PRESSURE	75 psig/6 bar abs. standard



DIMENSIONS - IN INCHES (MM IN BLUE)

MODEL	LENGTH	WIDTH	HEIGHT	INLET	OUTLET
GL 35	21 533	13.4 340	14 356	3 FLG 80 FLG	2 FLG 50 FLG
GL 45	24 610	13.4 340	14 356	3 FLG 80 FLG	2 FLG 50 FLG
GL 60	27 686	17 432	16 406	4 FLG 100 FLG	3 FLG 80 FLG
GL 80	31 787	17 432	16 406	4 FLG 100 FLG	3 FLG 80 FLG
GL 100	29 737	19 483	19.5 495	4 FLG 100 FLG	4 FLG 100 FLG
GL 130	33 838	19 483	19.5 495	4 FLG 100 FLG	4 FLG 100 FLG

All dimensions are approximate.



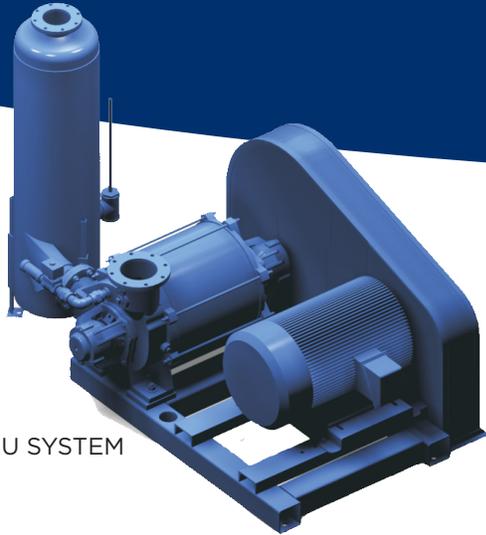


NASH VECTRPAK STANDARD & CONFIGURED-TO-ORDER PACKAGES

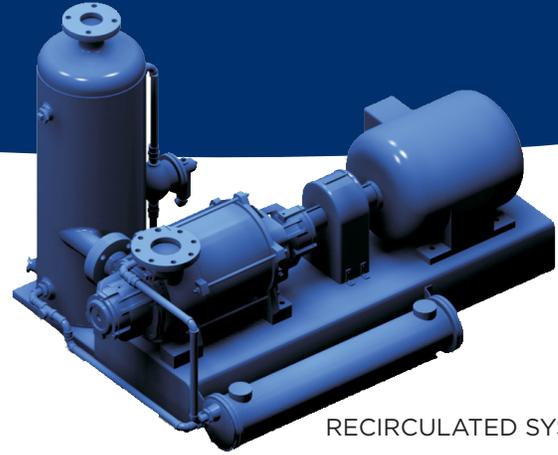
- **Quick Delivery** - delivery in 6 to 8 weeks depending on pump stock availability
- **Plug & Play** - quick installation
- **System Options** - once-thru, fully recirculated
- **Materials of Construction** - iron, stainless steel
- **Vacuum Levels** - to 29in. Hg (to 33 mbar abs.)
- **Additional Option** - Oil Sealed Packages

SYSTEM OPTIONS	ONCE-THRU	FULLY RECIRCULATED
Inlet Check Valve	X	X
Inlet Isolation Valve	X	X
Mechanical Seals	X	X
Relief Valve	X	X
Vacuum Gauge	X	X
Flow Switch	X	
Partial Recirculation Seal Flow	X	
Seal Line Isolation Valve	X	
Spray Nozzle	X	
Seal Line Solenoid Valve	X	X
Motor Options:		
• TEFC (Standard)		
• TEFC-SD	X	X
• Explosion Proof		
• Inverter Duty		

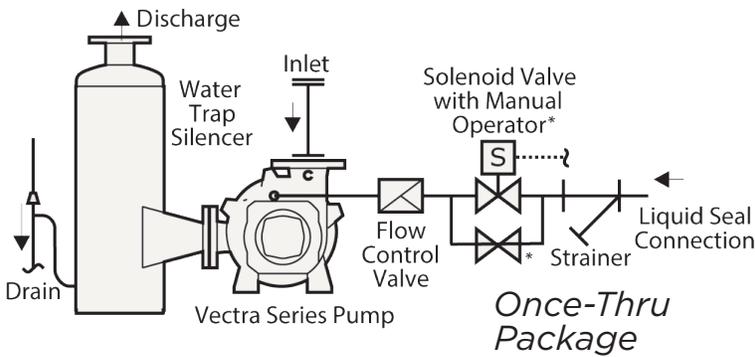
	MOUNTED PUMPS	ONCE-THRU	RECIRCULATED
Use When...	...replacing an existing system or where accessories can be reused	...contamination is not a problem and the supply of seal liquid is plentiful	...liquids and gases are hazardous or toxic and where contamination is a concern
Benefits	<ul style="list-style-type: none"> • Lowest initial cost 	<ul style="list-style-type: none"> • Simplicity • Low initial cost 	<ul style="list-style-type: none"> • Low water consumption • Condensable inlet gases may be recovered • Seal liquid contained and isolated from non-hazardous coolant systems
Standard Components	<ul style="list-style-type: none"> • Pump • Base • Drive • Guard • TEFC motor 	<ul style="list-style-type: none"> • Pump • Base • TEFC motor/drive/guard • Seal water accessories • Water trap silencer 	<ul style="list-style-type: none"> • Pump • Base • TEFC motor/drive/guard • Seal water accessories • ASME-coded separator with sight glass • Heat exchanger • Automatic makeup system



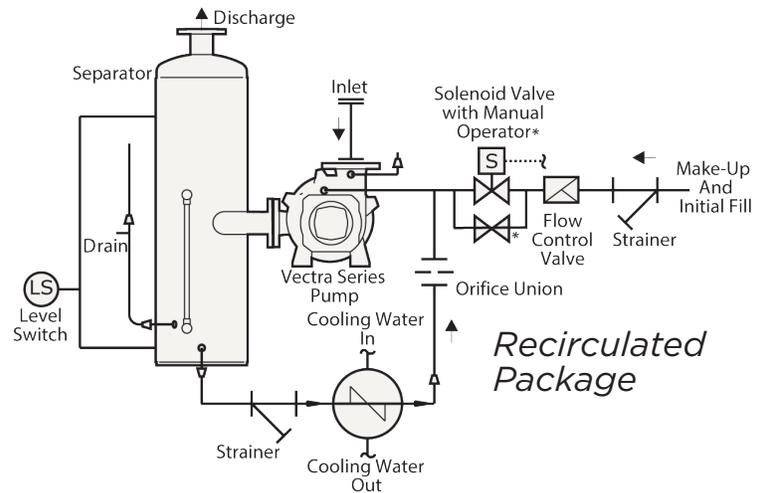
ONCE-THRU SYSTEM



RECIRCULATED SYSTEM



Once-Thru Package



Recirculated Package

*With Manual Operator or Manual Bypass Line with Ball Valve.

FEATURES

BENEFITS

Compact Design

Less Floor Space Required

Built-in Mechanical Seals

No Shaft Leakage

Global Product Design

Direct Drive Speeds for 60Hz & 50Hz Motors

Conical Design

Better Ability to Handle Water/Particulate Slugs

One Moving Part

Long-term Reliability

Variable Port Design

High Efficiency

Lobe Purges

Reduce Erosion Wear

NASH Patented Gas Scavenging

Increased Performance at High Vacuum Levels

Redesigned Cone Angle

Reduced Pump Length

Optimum Design Using Finite Element Analysis

Improved Efficiency, Performance, and Value

100% Performance Tested

Trouble-Free Start-Up & Operation

Backed by a 2-Year Warranty and Over 100 Years of Experience

Peace of Mind

Nash Products & Systems



NASH® Liquid Ring Vacuum Pumps & Systems

The reliable and durable solution for demanding process applications. Through ongoing commitment to innovation, Nash continues to introduce liquid ring vacuum pumps that meet the rigors of the most demanding applications while improving efficiency and lowering total cost of ownership.



NASH and GARO® Liquid Ring Compressors & Systems

The rugged, reliable solution for demanding process applications. Designed to handle toxic, explosive and corrosive gases, and backed by a reliable history of performance under the most demanding conditions.



DRY-PRO® Dry Vacuum Pumps & Systems

Designed to meet your specific process needs, NASH engineered systems are ready for operation, easy to integrate into process automation, help minimize installation & operating costs, and meet the rigors of the most demanding applications.



ENER-JET™ Ejectors & Systems

Whether on their own, or as part of a NASH ENER-JET Hybrid Vacuum System, NASH steam jet ejectors are engineered for optimum efficiency, reducing steam consumption, while maintaining their ability to handle large volumes at very high vacuum levels.

NASH

Gardner Denver Nash, LLC

www.GDNash.com

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