

VR-D SERIES

5 m³/h - 130 m³/h

Robust, Efficient, Compact
& Low Noise Operation

ELGi[®]

Always Better.



Dry Rotary Vane Vacuum Pumps

VR-D Series

Dry Rotary Vane
Vacuum Pumps



The Ideal Choice for **Clean, Efficient, and Low-Maintenance Vacuum Solutions**

The **ELGi VR-D Series** dry rotary vane vacuum pumps are essential in various industries due to their oil-free operation, ensuring contamination-free environments. The ELGi VR-D Series offers high efficiency, reliability, and low maintenance, making it ideal for applications in pharmaceuticals, food processing, laboratories, electronics manufacturing and more.

The compact design, durability, and cost-effectiveness of the ELGi VR-D Series highlight the importance of maintaining clean and stable vacuum conditions across diverse industrial processes. With the ELGi VR-D Series, customers benefit from advanced technology that guarantees performance and longevity, making it a top choice for modern vacuum requirements.

APPLICATIONS

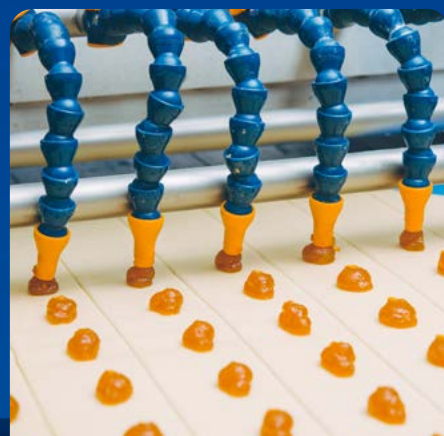
Discover the diverse sectors where ELGi VR-D Series Dry Rotary Vane Vacuum Pumps can be used.



LABORATORIES



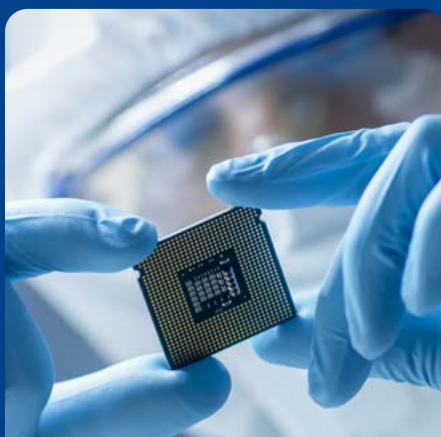
CONSTRUCTION



FOOD & BEVERAGE



MEDICAL



SEMICONDUCTOR



PACKAGING



PNEUMATIC CONVEYING



PRINTING & PAPER



MANUFACTURING

WORKING PRINCIPLE

How ELGi VR-D Series vacuum pumps deliver contamination-free, seamless performance

The ELGi VR-D Series dry rotary vane vacuum pumps are engineered to be robust, compact, and emission-free, ensuring zero contamination and silent operation with high efficiency.

These pumps feature an eccentrically positioned rotor inside a cylindrical body, equipped with grooves where the vanes

are inserted. During operation, the rotor's rotation generates centrifugal force, pushing the vanes outward to create sealed compartments.

This robust mechanism efficiently draws air from the container being evacuated and expels it through the outlet duct, ensuring seamless,

contamination-free performance.

The compact design and oil-free technology enable continuous operation at atmospheric pressure and at high vacuum levels, making the ELGi VR-D Series ideal for a wide range of demanding applications while maintaining high efficiency and quiet operation.

FEATURES AND BENEFITS



ROBUST DESIGN

Durable Graphite Vanes: Graphite vanes provide best-in-class longevity. **Compact Construction:** Space-saving design offers flexibility for various installations.



CLEAN AND EFFICIENT

Oil-Free Technology: Delivers dry vacuum without the need for oil. **Zero Emissions and Contamination:** Ensures a clean and environmentally friendly process. **Low Noise Operation:** The low-noise, low-vibration operation and compact design make them ideal for use in quiet and highly integrated working environments.



SAFE OPERATION

Direct Drive Mechanism: Guarantees smooth operation with minimal transmission losses. **Extended Service Intervals:** Longer intervals between maintenance provide reliability and peace of mind for users.

PRODUCT RANGE

VR 5D



VR 8D



VR 10D



VR 12D



VR 16D



VR 25D



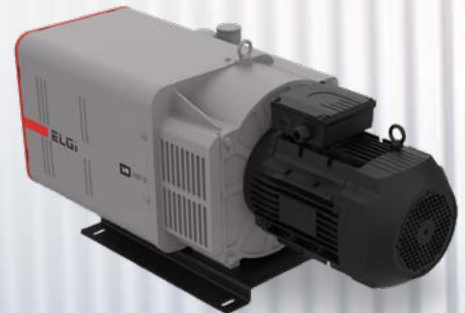
VR 40D



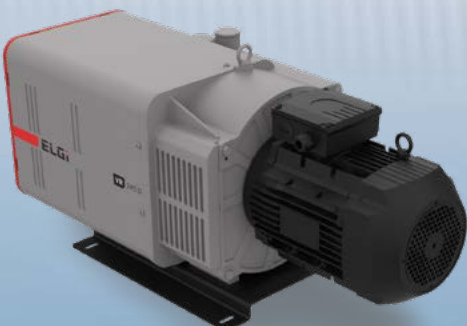
VR 60D



VR 100D



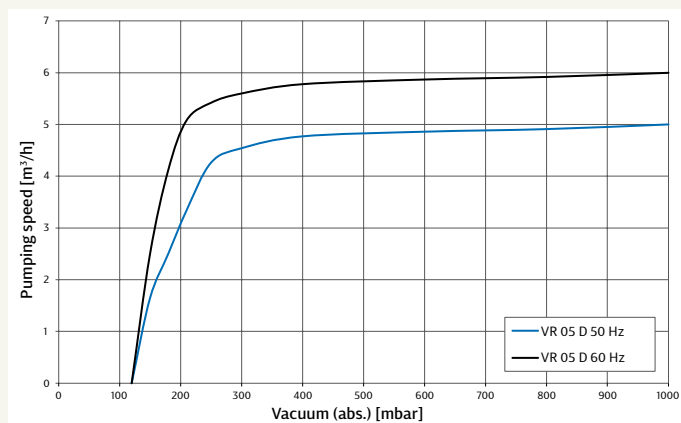
VR 140D



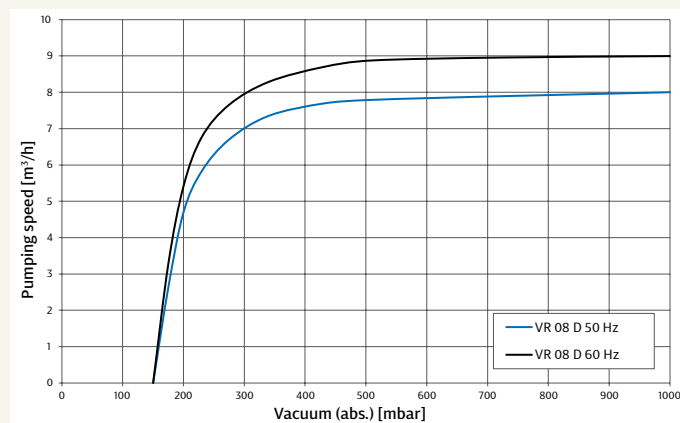
TECHNICAL SPECIFICATIONS - 50 HZ

Model	Nominal Flow (m ³ /h)	Vacuum Level (mbar)	Motor Power (kW)	Motor speed (rpm)	Weight (kg)	Dimensions L x B x H
VR 5 D	5	120	0.12	2800	5.4	226 x 139 x 138
VR 8 D	8	150	0.25	2800	8.5	259 x 167 x 147
VR 10 D	10	120	0.37	1400	15.5	304 x 182 x 167
VR 12 D	12	120	0.37	1400	14.5	304 x 182 x 167
VR 16 D	16	120	0.75	1400	31	412 x 206 x 271
VR 25 D	25	120	0.75	1400	30.5	412 x 206 x 271
VR 40 D	40	120	1.3	1400	41.5	485 x 230 x 293.5
VR 60 D	60	150	1.5	1400	66	692 x 365 x 382
VR 100 D	100	150	3.4	1400	87	820 x 365 x 382
VR 140 D	130	150	3.4	1400	95	820 x 365 x 382

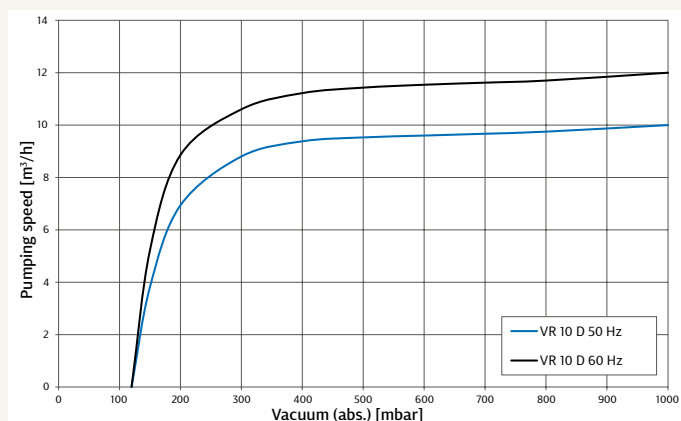
PERFORMANCE CURVES



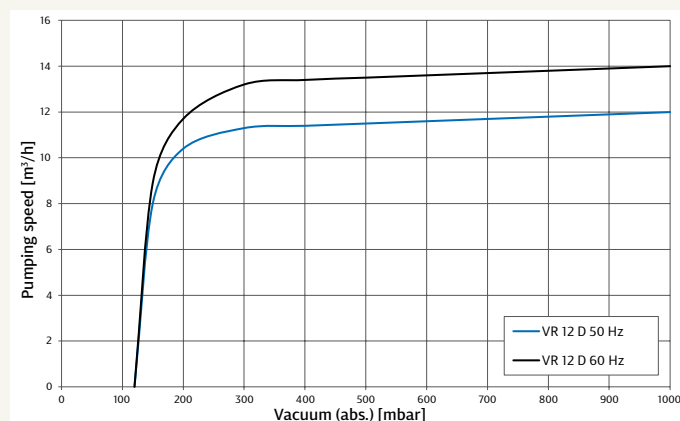
VR 5D



VR 8D

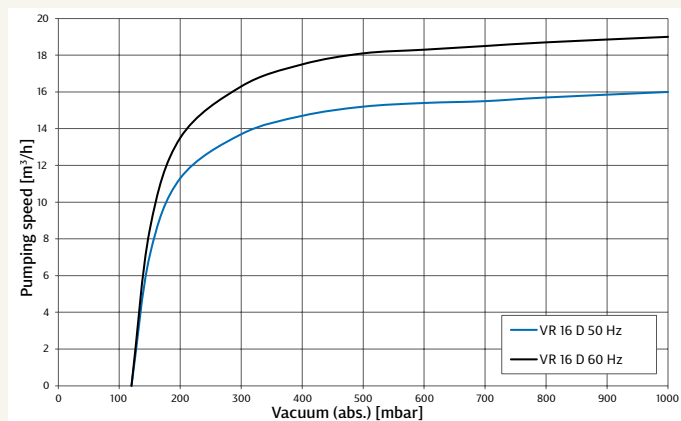


VR 10D

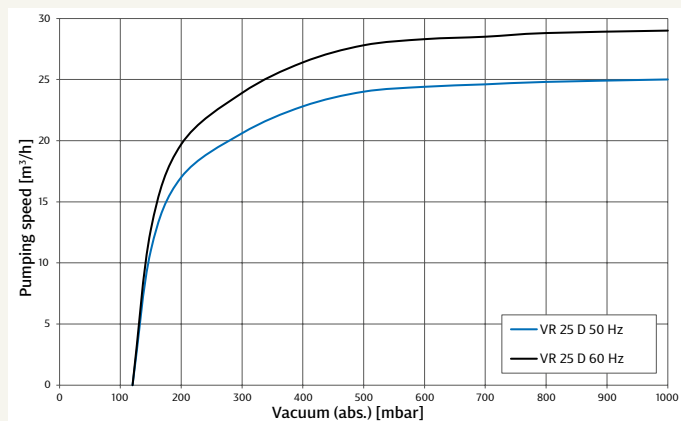


VR 12D

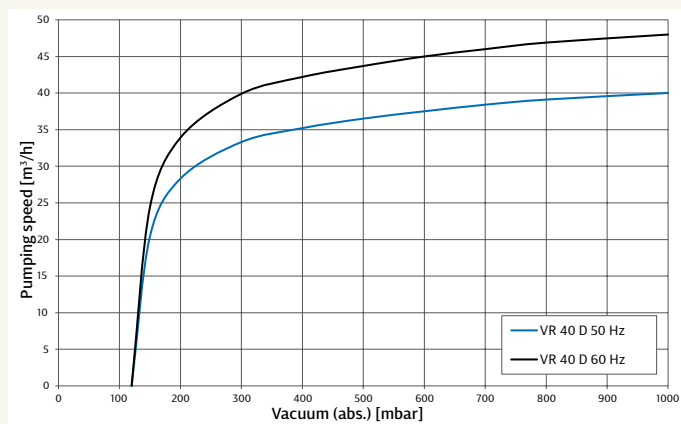
PERFORMANCE CURVES



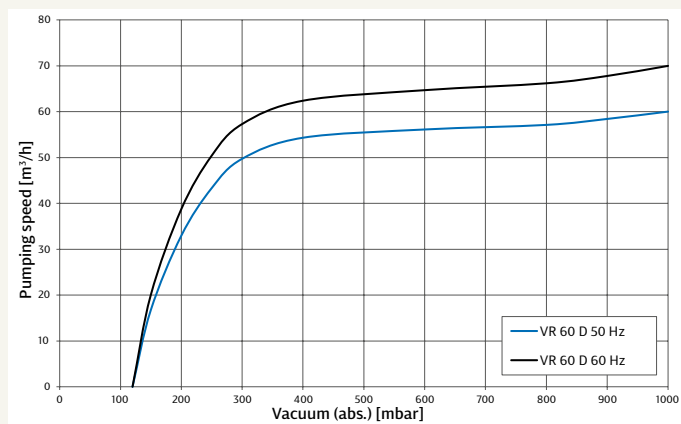
VR 16D



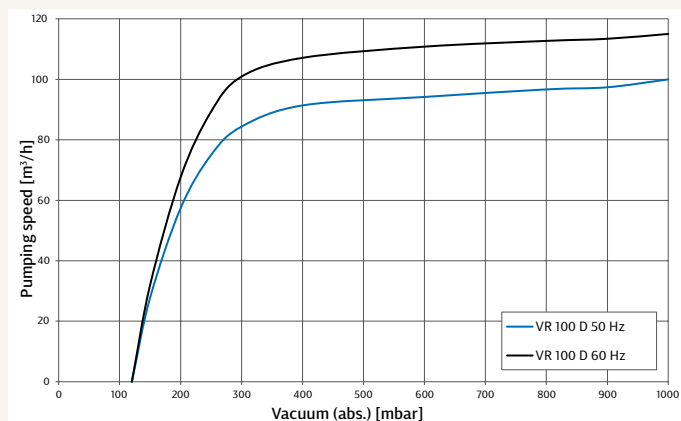
VR 25D



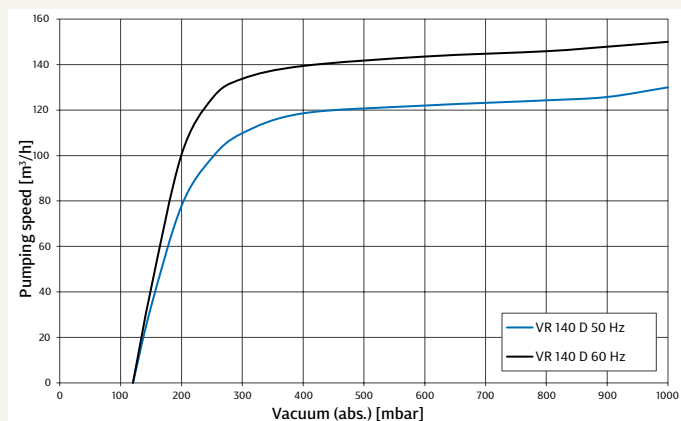
VR 40D



VR 60D



VR 100D



VR 140D

VR-D SERIES ACCESSORIES

Inlet Filter | Shock Mounts | Buffer Tank | Exhaust Filter | Vacuum Gauge | Vacuum Regulating Valve | Non Return Valve



AFTER SALES SERVICES

The after-sales services from ELGi is designed to maximize value for customers. ELGi's efficient service processes ensure reliability of vacuum pumps while minimizing operating costs.

Comprehensive Maintenance Solutions

ELGi takes charge of the maintenance planning and regular servicing of your vacuum pump. By utilizing the latest technology, ELGi ensures high energy efficiency and optimizes service schedules to minimize your total cost of ownership while maximizing productivity.

Expert Vacuum Specialists

ELGi's vacuum specialists are dedicated to enhancing your system's uptime and safeguarding your processes. Regular maintenance by ELGi's specialists reduces the

risk of wear and tear. Damaged or worn components are replaced with genuine ELGi spare parts, protecting your investment and extending the lifespan of your vacuum pumps.

Genuine Parts and Professional Service

ELGi uses authentic ELGi spare parts and oil, and ELGi's services are performed by vacuum specialists following the manufacturer's guidelines. This approach enhances the performance of your vacuum pump, minimizes the risk of downtime, and ensures smooth, uninterrupted production.

ELGi

Always Better.

Elgi Equipments Limited is a global air compressor manufacturer with a broad line of innovative and technologically superior compressed air systems.

ELGi has consistently worked towards ensuring that its customers achieve their productivity goals while keeping the cost of ownership low. ELGi offers a complete range of compressed air solutions from oil lubricated and oil free rotary screw

compressors, oil lubricated and oil free reciprocating compressors and centrifugal compressors, to vacuum pumps, dryers, filters, and downstream accessories.

With its world-class technology, superior service, and best-in-class warranty, the company's portfolio of over 400 products has found wide application across various industries.



60+

Years of Customer-Centric Innovation

2 Mn+

Installations Worldwide

120+

Countries and Counting



DEMING PRIZE 2019

ELGi is the first globally established industrial air compressor manufacturer to be awarded the Deming Prize for Excellence in Total Quality Management.

ELGI[®]
Always Better.

