

PRECISION SMART SYSTEMS | GREATER THAN THE SUM OF THEIR PARTS

# Industrial Vacuum System Solutions



# A Systematic Approach to Vacuum System Solutions

Elmo Rietschle offers a comprehensive choice of standard and engineered to order systems for a wide range of applications and duty points. Whether you require custom built solutions, ready to make standard systems or stand-alone pumps, we can help make sure the system solution you choose matches your needs.



**STANDARD & CUSTOM**  
package solutions available.



**FULL COMPLIANCE**  
with ISO 9001:2015.



**OUTSTANDING**  
delivery and performance.



**WORLDWIDE**  
after sales care and  
technical support.



**ENGINEERING EXPERTISE**  
utilizing our system  
configurator or applications  
support team, we have  
support throughout the  
development process.

NOW WITH  
**PLUG  
& PLAY**  
CAPABILITIES



# Experts in Vacuum Innovation & Technology

When looking for system solutions that support your vacuum applications, you need to be confident that you are working with trusted specialists that provide the knowledge and allow the opportunity for you to benefit from their real, hands on experience.

## Advantages at a glance

- Over 100+ years of engineering experience.
- Unmatched Range of solutions available, all from one source.
- High Quality Products. Elmo Rietschle is known for quality and performance
- Center of Excellence at our Missouri locations.
- A global Service Network with on-site support.
- Knowledge in the form of system configurators, applications, design and manufacturing.

## Plug & Play System Solutions

Elmo Rietschle offers standard systems for a wide range of requirements and applications. With our Center of Excellence capabilities, we can design & build system units that specifically match each client's particular needs.



working for your  
**APPLICATION**



WAREHOUSE DISTRIBUTION



PLASTIC PROCESSING



FOOD MANUFACTURING

# Stay a Step Ahead with Monitoring Equipment

Vacuum pumps are designed and fitted with a wide range of monitoring equipment to suit the industrial applications involved. Typically, for our VC Series of oil lubricated vane pumps and VLR Series of claw pumps we monitor the options listed below.

- Oil Level
- Temperature Measurement
- Process Parameter & Pressure Measurement
- Data Management & Transfer
- Optional preventative maintenance monitoring PredictER™ package. High discharge temperature, oil quality and vibration monitoring.



**MANAGEMENT  
CONTROL SYSTEMS**



**ENERGY  
EFFICIENCY**



**EASY  
MAINTENANCE**



**UNRIVALED RANGE**  
of vacuum and low  
pressure technologies.



**KNOWLEDGEABLE  
EXPERTISE**  
Fusing Elmo Rietschle  
Vacuum knowledge  
with Gardner Denver  
Systems expertise.



CHEMICAL PROCESSING



WOODWORKING



GENERAL MANUFACTURING



# Reduce the Costs of Installation & Ownership

Concerns over cost of ownership, process control and ever growing demands for pump efficiency have led us to focus on providing simple pumping packages that can drastically reduce installation time and cost. By removing pumps from the production environment and locating them remotely, you can minimize the impact of servicing disruption, provide a better working environment, and with a self- managed control system, deliver the exact performance need.

## Save Maintenance Time

Remote and central systems can take the pain out of pump maintenance. Central vacuum systems generally require fewer pumps resulting in less part wear, lower use of consumables such as oil and filters and therefore negligible service costs.

## Environmental Concerns

Stricter legislation around employee wellbeing drives us to find the best solutions we can. Dry pumping technologies eradicate the problems associated with oil and oil mist created by traditional oil lubricated pumps while providing best in class noise level pumps can also contribute to a better work environment.

## Pump Management

Process control is important to production machine management whether to reduce cycle times, provide constant pressure control, or to provide vacuum or pressure on demand to reduce energy costs when not needed. Our control solutions can be tailored to suit your exact needs, from simple automated on/off pump control to smarter engineered solutions incorporate variable speed drives (VSDs), a Human Machine Interface (HMI) or remote management and monitoring.



MORE  
RELIABLE  
& **EFFICIENT**  
THAN THE  
COMPETITION

# General Industrial Applications

## Standard Vacuum Systems

Our VC and VLR Series of systems can be configured as simplex, duplex, triplex or quad pump packages give you the built-in flexibility demanded of modern system solutions. Pump speed can range from 10 m<sup>3</sup>/hr up to 1200 m<sup>3</sup>/hr and can be expanded by combining multiple pump sets that communicate to provide a seamless interaction between pumping stations.

- All systems can be designed in various configurations to best utilize space. Tank sizes range from 80 to 240 gallons in volume.
- Claw pumps work extremely well at a multitude of motor rotation speeds that offer versatile flexibility and energy efficiency in their performance to perfectly match process requirements.
- The VC Oil Lubricated Vane pumps meet most Central Vacuum System needs with vacuum levels of 29.92 in. HgV for all pump sizes.
- Our VR systems utilize VLR dry claw vacuum pump technology that delivers improved efficiency, a cleaner environment, and minimal maintenance.
- For deeper vacuum performance, our systems can incorporate VSI dry screw vacuum pumps on an engineered to order process.
- No system is complete without filtration. We provide simplex or duplex filter arrangements.
- If you are simply considering an upgrade to an existing vacuum system, or an expansion to include more capacity, we have the expertise and knowhow to offer stand-alone control and motor start systems with a series of control panel capabilities that include touchscreen, and HMI displays.



# Enjoy the Benefits of a Central Vacuum System

Central vacuum systems are common in many industries and offer considerable advantage over pumps located more specifically in the production environment. Our expertise & experience has helped many customers realize the true benefits of centralized system solutions. Simplicity is key and we ensure that all of our systems are capable of expansion to meet future needs. Commonality in components and design ensure efficiency and well thought-out system solutions that improve performance and reduce costs.

As well as achieving operational cost efficiency, our vacuum equipment is designed for reliability and to maximize potential operational life. Minimal maintenance requirements ensure that all of our central vacuum systems offer outstanding vacuum performance and reduced energy impact. A full system design, installation and commissioning service is available along with complete project management support from the initial advisory stage right through to ongoing system maintenance.



## INNOVATIVE BENEFITS

- Remote Tanks Standard
  - Vertical 80, 120 or 240 Gallon
- Base & Skid Mounted
- Bare VC & VLR vacuum pumps available for service replacements or expansion.





Elmo Rietschle

## Central Vacuum System Features



### **BUILT IN REDUNDANCY**

For guaranteed vacuum supply and minimum downtime in the event of pumps being off-line.



### **TURNKEY PROJECT**

We can handle the whole installation process; from project management right through to pump, pipework, control systems installation and commissioning.



### **INTELLIGENT CONTROL**

Reliable PLC driven control systems are at the heart of the CVS. They offer complete flexibility and control of your process along with the option to build in remote management and monitoring.



### **PRE-DELIVERY TESTING**

For every pump and system.



### **PUMP MANAGEMENT**

The PLC offers pump rotation and redundancy management to maximise uptime and even out pump performance. Careful monitoring of hours run allows effective predictive maintenance scheduling. During pump down-time the system can still provide seamless operation.



### **PEACE OF MIND WITH OUR COMPREHENSIVE WARRANTY**

12 months standard system warranty on vacuum pumps.



### **ENVIRONMENT MATTERS**

Locating the pumps remote to the production environment reduces noise levels, lowers the workplace temperature and eliminates any oil residue in the workplace resulting in a much more pleasant and eco-friendly environment.

# Technologies that Combined, Offer Total Capability

Elmo Rietschle delivers outstanding choice for both oil lubricated and dry running pump solutions and offers the widest range of vacuum pumps, blowers and low pressure compressors technologies available. Quality products and expert know-how have helped many industries see us as their first choice for all industrial vacuum or pressure applications.

Dedicated product engineers are focused on developing world leading vacuum and low pressure solutions. Our aim, to make your manufacturing process faster, safer and increasingly efficient with minimal downtime. Continual investment in product development and research ensures technologies are kept at the forefront of the industries we serve.

Numerous technologies enable us to offer the optimum solution for specific application requirements that help to ensure client needs are met. We also have the capability to build multi-stage solutions that use booster pumps, ejectors, condensers, vessels, filtration, control valves and instrumentation to help protect and manage system solutions.

All in all, a comprehensive portfolio, that can be purposed to match each and every client's set of needs absolutely.



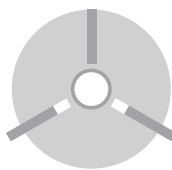
## **C-SERIES**

Claw vacuum and  
compressor pumps



## **L-SERIES**

Liquid ring  
pumps



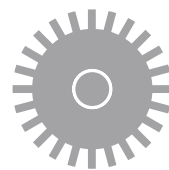
## **V-SERIES**

Rotary vane  
pumps



## **S-SERIES**

Screw vacuum  
pumps



## **G-SERIES**

Side channel  
blowers



## Midwest Innovation | Engineered in the USA

Elmo Rietschle vacuum systems are manufactured at our facility in Springfield, MO – a center of excellence for vacuum products. Each system is designed with the user in mind, for ease of selection, ordering, installation and maintenance. Elmo Rietschle has captured all the expertise, across the organization and built these systems with industrial applications in mind and is ISO 9001 Registered and committed to quality.



The leader in every market we serve  
by continuously improving all business processes  
with a focus on innovation and velocity



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