

# Blower & Vacuum Product Guide



## Leading the Field

The Elmo Rietschle brand was created when the renowned vacuum companies Elmo Technology and Rietschle joined forces within Gardner Denver, a recognized leader providing compressed air and gas, vacuum and fluid transfer technologies to industries throughout the world. We offer an outstanding choice of **side channel blowers**, **radial fans**, dry running and oil lubricated **rotary vane** vacuum pumps and compressors, **screw** vacuum pumps as well as **liquid ring**, **rotary lobe** and **claw** vacuum pumps and compressors.



**Side Channel**  
18 to 2,000 m<sup>3</sup>/hr  
Pressure to 1 bar G  
Vacuum to 450 mbar A

### G-Series – Side Channel

Some technologies are so good that it is hard to improve them. Side channel blowers from Elmo Rietschle are such an example. They have proven their reliability in service for many decades, performing flawlessly day in and day out with virtually no down time. Noise levels have been lower than that of most other vacuum pumps and compressors. Side channel blowers are used for conveying gases and gas-air mixtures.



**Rotary Vane**  
10 to 1,500 m<sup>3</sup>/hr  
Pressure to 1.5 bar G  
Vacuum to 0.1 mbar A

### V-Series – Dry Running and Oil Lubricated Rotary Vane Pumps and Compressors

Elmo Rietschle offers dry running and oil lubricated rotary vane pumps which cover a wide performance range. The eco-friendly dry running rotary vane pumps are used for vacuum, pressure and combined pressure and vacuum applications. The time-tested oil lubricated rotary vane machines are typically used for generating vacuum.



**Screw**  
80 to 720 m<sup>3</sup>/hr  
Vacuum to 0.05 mbar A

### S-Series – The Screw: dry running and low maintenance vacuum pump

The S-VSI screw vacuum pump (sizes 100 and 300) represents modern, state-of-the-art dry running technology that excels when it comes to small carbon footprint and low life cycle costs. It is used in a variety of industrial applications such as drying and packaging. Click here to find out more. The S-VSA and S-VSB dry running, contact-free screw vacuum pumps are primarily used in the chemical and pharmaceutical industries for processing applications. A contamination with oil or other operating liquids is impossible. Several pump sizes are available with ATEX certification.



**Liquid Ring**  
10 to 950 m<sup>3</sup>/hr  
Pressure to 2.6 bar G  
Vacuum to 33 mbar A

### L-Series – Liquid Ring

Extreme conditions, which prevail in humid and wet processes, lead to lime scale or abrasion, and hence to a considerable reduction in the performance of the pump. Elmo Rietschle liquid ring pumps, however, meet these challenges. The use of high-quality materials such as stainless steel and ceramics ensure utmost reliability and constant operating characteristics – for years to come.

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## Application

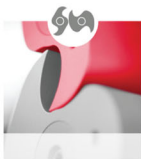
- ✓ plastic
- ✓ ceramic
- ✓ chemical
- ✓ electronics
- ✓ food industry
- ✓ wood industry
- ✓ Pharmaceutical



**Rotary Lobe**  
12 to 8.500 m<sup>3</sup>/hr  
Vacuum to 0.01 mbar A

### R-Series – Rotary Lobe Blowers

These compact rotary lobe blowers belong to the group of dry running positive displacement pumps. This means that there is no need for oil or grease in the compression chamber. Only gear box and bearings, which are separated from the pumping chamber, are oil lubricated. Two non contacting triple lobed rotary lobe rotors rotate against each other in the compression room. The triple lobed rotors avoid pulsation problems. The blowers are customized to cater for the varying demands of our customers' applications.



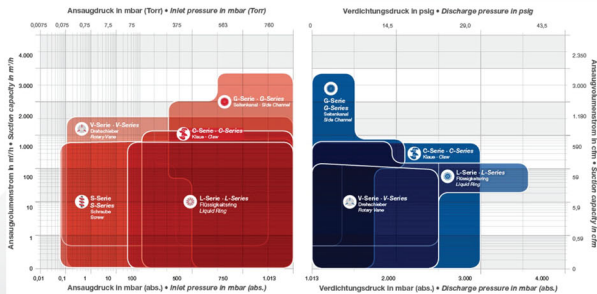
**Claw**  
60 to 1.200 m<sup>3</sup>/hr  
Pressure to 2.2 bar G  
Vacuum to 66 mbar A

### C-Series - Claw

The C-Series claw pumps and compressors of Elmo Rietschle generate contact-free vacuum or compressed air efficiently and economically. This is possible because of the principle of internal compression. The gas is pre-compressed within the compressing chamber and is then discharged. This leads to an evident energy saving compared to rotary lobe blower designs without internal compression.

## Widest Choice of Technologies

When customers want to buy a pump for an application, their requirements may vary widely. Perhaps they prefer dry-running to oil-lubricated and want to replace an old system. The deciding argument might be energy conservation or low noise emissions. Maybe a particularly small footprint is important – or reducing life cycle costs. But no matter what our customers' focus, we have the widest range of technologies for you to choose from and can satisfy all demands and requests for vacuum and pressure.



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