

INDUSTRIAL

Vacuum Products



Did you know about... OUR NETWORK?





We're Where You Need Us

Did you know about...

our EXPERTISE?



regenerative blower technology

ANISTRALICHES ANIS PATENTANT. PATENTSCHRIFT - N 185789 -RASSI 594. GRUPPL SUMENS-SCHRCENT WILL Partie to Market ANIS Partie to Mar

Used on the international space station

Our dry vane was designed and produced for

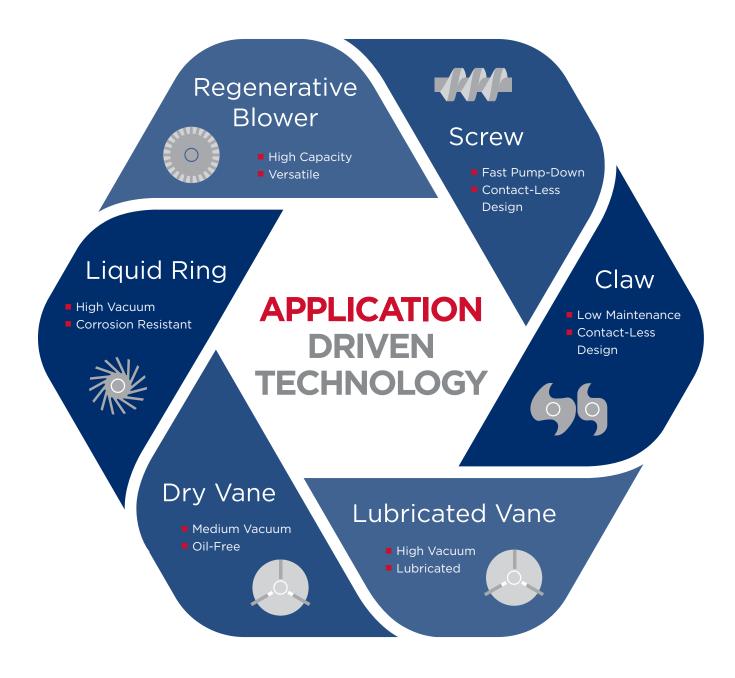
NASA



We Have a Legacy of Inventing Original Solutions

Did you know about... OUR RANGE?





Gardner Denver provides more technology styles than anyone else. This means **YOU** can tailor technologies to **YOUR** needs.

We're your first and ONLY call!

Did you know we operate in almost... EVERY INDUSTRY?

Aerospace CNC Routers Soil Automotive Remediation Medical Printing Environmental

WoodWorking Laboratory Packaging

Conveying

Wind Turbine Blades

Parts Drying

Food Processing

Manufacturing



Particle Analysis

Biotech Degassing

Poultry

Fish Farming

Beverage Paper Production Production

Did you know about our... REGENERATIVE BLOWERS?



Advantages at a Glance

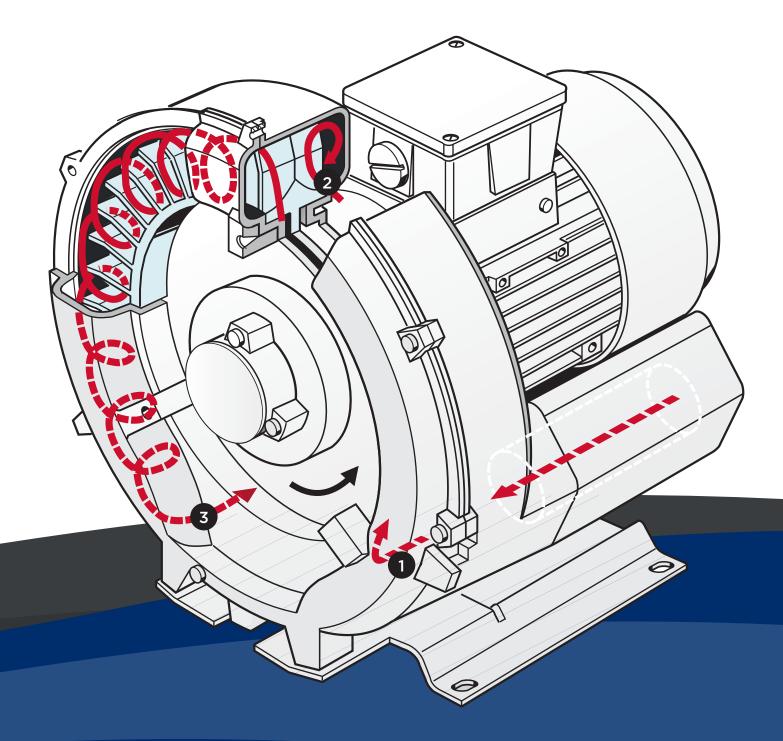
- High CFM capacities moderate pressure/vacuum
- Ideal for point of use applications
- Easy installation
- Contact-less Operation
- Tolerant to dust ingestion
- VFD Compatible
- Quiet operation
- Up to 40,000 operating hours without maintenance



Technology	Specifications									
Regenerative Blowers G Series	UP TO 1,550 14 16	CFM PSI inHg							-	

Operating Principle

- 1. Gas is taken in through the inlet and enters the side channel
- 2. The rotating impeller imparts velocity energy into the gas in the direction of rotation. Centrifugal force in the impeller blades accelerates the gas outward, increasing pressure. Kinetic energy is imparted with every rotation resulting in further pressure increase.
- 3. The side channel narrows at the rotor, sweeping gas off the impeller blades and discharging it through the outlet silencer where it exits the blower.





Did you know about our... LUBRICATED VANE?





Why Elmo Rietschle?

- Deep vacuum level
- Faster pumping speeds
- Quieter, smaller footprint
- Patented filter design
- Easier maintenance, less downtime

Why Aluminum Alloy?

- Proprietary material blend
- Won't delaminate or absorb oil: eliminates stuck/failed vanes
- Channels can be milled to enhance lubrication
- Incredibly durable
- Soft enough to wear if lubrication deteriorates
- Track record: years of operation
- 5 Year Warranty!

Did you know about our... DRY VANE?



Technology	Specifications								
Rotary Vane Pumps	UP TO 91 22	CFM PSI							
V Series	25.5 112	inHg Torr		1	, ,	1	1		

Dry Vane Advantages

- Multiple sizes
- Oil-free
- Optimized cylinder design
- Long-life graphite vanes
- Environmentally friendly
- Minimal maintenance
- Low noise level
- Compact size

Ideal For

- Vacuum Lifting
- Medical Vacuum
- Pick n' Place
- Woodworking, CNC Routers
- Central Vacuum System



Did you know about our...

CLAW?



- Contact-less design: oil-less compression
- Service intervals up to 5 years
- Environmentally friendly
- Compact footprint
- Lowest in class dBA





Did you know about our... SCREW?

See why we have Best-In-Class PERFORMANCE

Elmo

Rietschle

by Gardner Denver

- Contact-less design
- Fast pump down-times
- Innovative screw pitch design
- Oil-free compression

Continuously variable pitch screws

- Low cost of ownership
- Most efficient technology

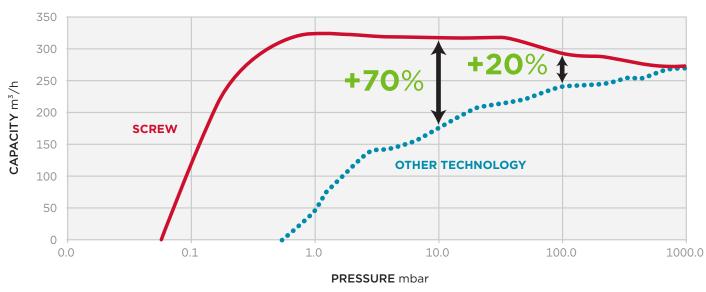
Integrated tuned discharge silencer

Oil-free compression chamber

Contact-less operation: screws never touch

Technology	Specifications									
Screw Pumps S Series	UP TO 212 29.917 0.075	CFM inHg Torr			, ,				I	

Screw vs. Alternative Technology AT THE SAME HORSEPOWER



Up to 70% more flow during pump-down

- = FASTER pump-down
- = FASTER cycle time
- = MORE \$

FOOD PLANT PRODUCTION MANAGER

"After installing the VSI

OUR PRODUCTION MORE THAN

Available in Chemical Grade & Industrial Versions DOUBLED

from 4 Packs to 9 packs per minute."

Did you know about our... LIQUID RING?

High Water Carry-Over

= LOWEST in Class for Horsepower Use

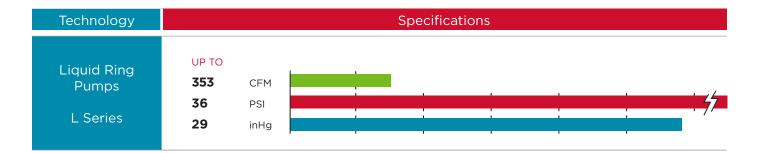
= SAVINGS

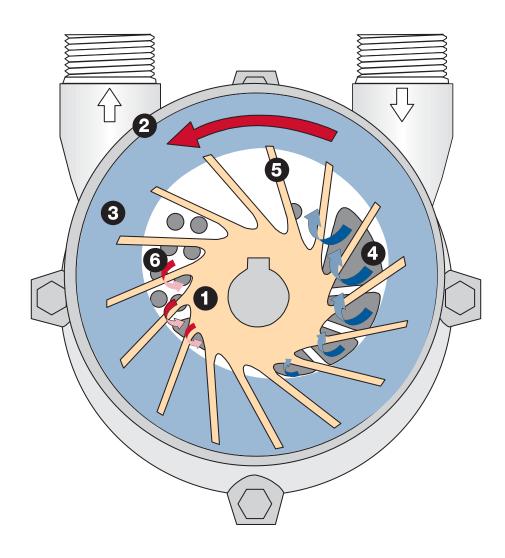


Small but Mighty

- Patented water reclamation system
- Unique coatings
- Stainless Steel options
- Bronze alloy impellers
- Anti-cavitation as standard







Operating Principle

- The impeller (1) is the only moving part.
- It rotates without contact inside the pump casing (2).
- A rotating liquid ring (3) seals the impeller on the front and seals its blades against one another.
- Gas flows through the inlet slot (4) into the blade cells.
- The impeller is offset within the casing. This creates variable compression chambers between the blades (5), which compresses the gas within a full revolution.
- In order to stabilize the ring, liquid is also permanently sucked into the compression chamber and is expelled (6) together with the conveyed gas.

Did you know about our... ENGINEERED SYSTEMS?

- We can offer system design and specification support
- In-house engineering team
- Compliant with chemical and medical grade specifications
- Meets NFPA 99 & CSA Code
- Expandable systems for future facilities growth
- System multiplexing to meet demand requirements
- Modular systems with increased handling flexibility
- Compressed air and vacuum systems are available



One Company, One Source, One Choice Technical Expertise for You

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



Gardner Denver, Inc.

1800 Gardner Expressway Quincy, IL 62305 866-249-2275 www.gd-elmorietschle.com

©2018 Gardner Denver, Inc. Printed in U.S.A. VAC-IND-PROD 2nd Ed. 5/18



