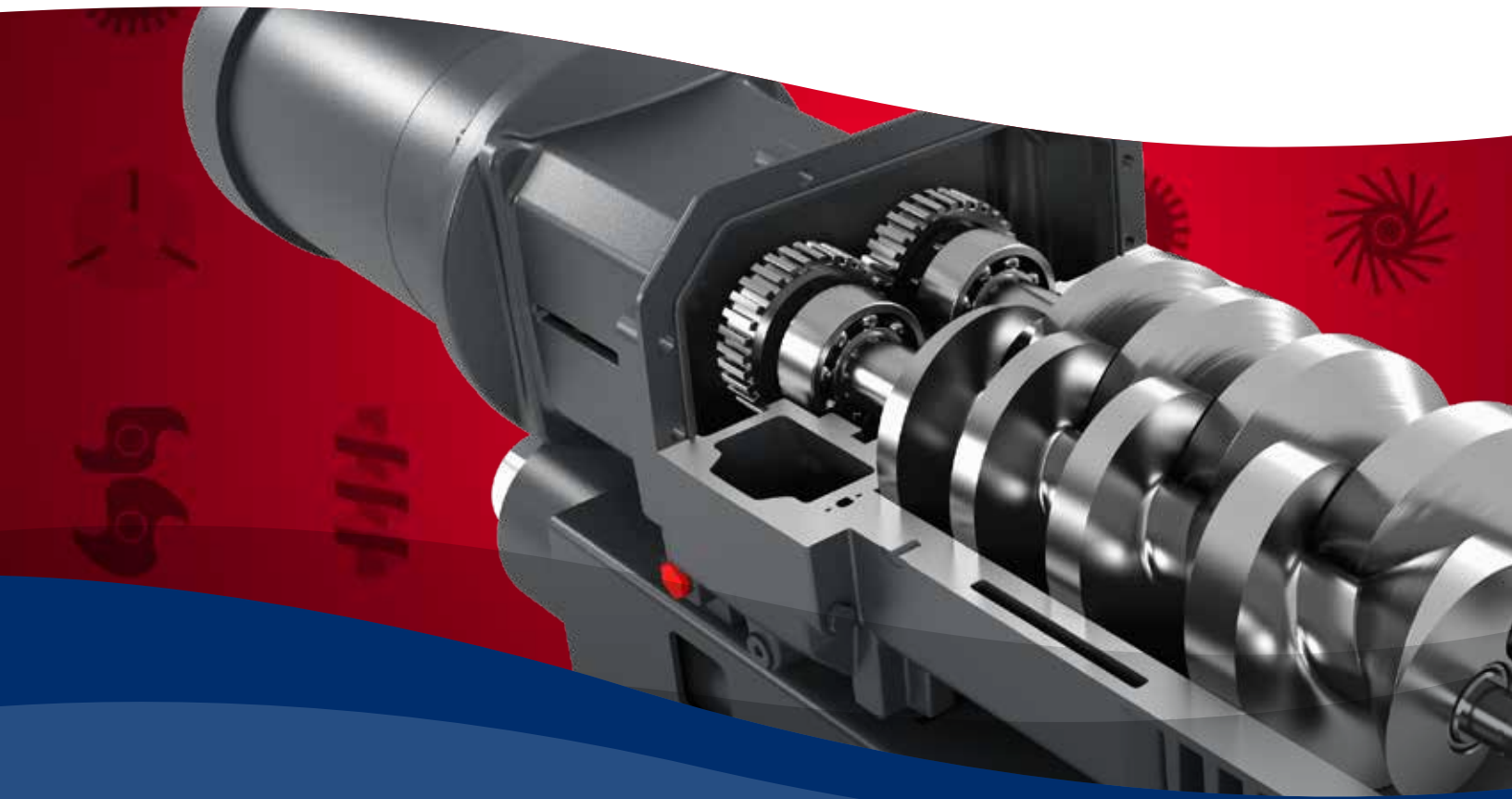
Gardner Denver

INDUSTRIAL

Vacuum Products



Did you know about...

our NETWORK?

- Our distribution network is factory-trained and certified
- Local service includes support for re-build

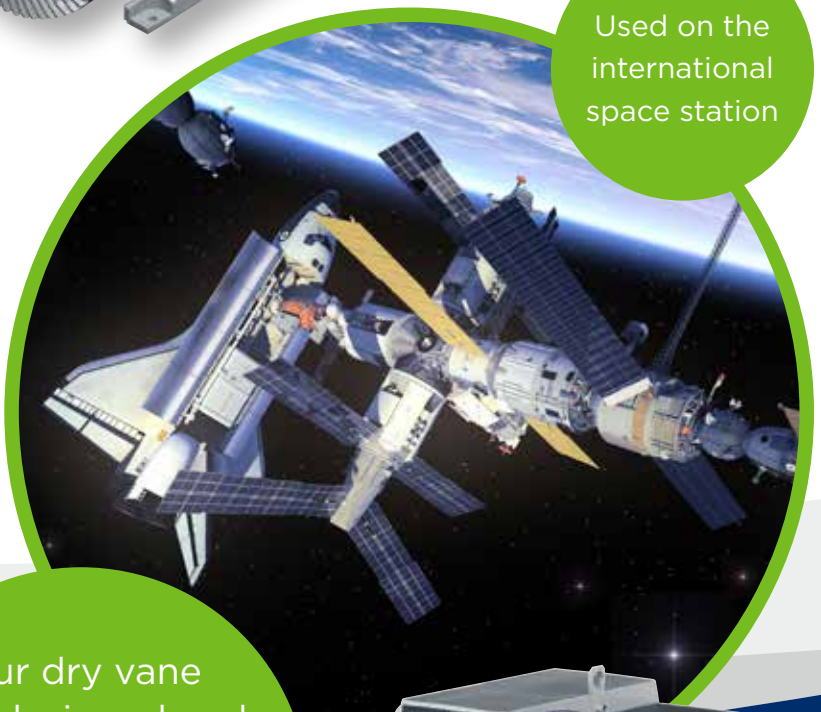
We’re Where You Need Us

Did you know about...

our EXPERTISE?

We were the
FIRST
TO PATENT
regenerative
blower technology

Used on the
international
space station



Our dry vane
was designed and
produced for
NASA

Our
PATENTED
Liquid Ring System
RECLAIMS
its own water

We
INVENTED
THE **FIRST**
combination
vac/pressure duty
vane pump

Our lubricated
vane uses unique
& proprietary
alloys

We Have a Legacy of Inventing Original Solutions

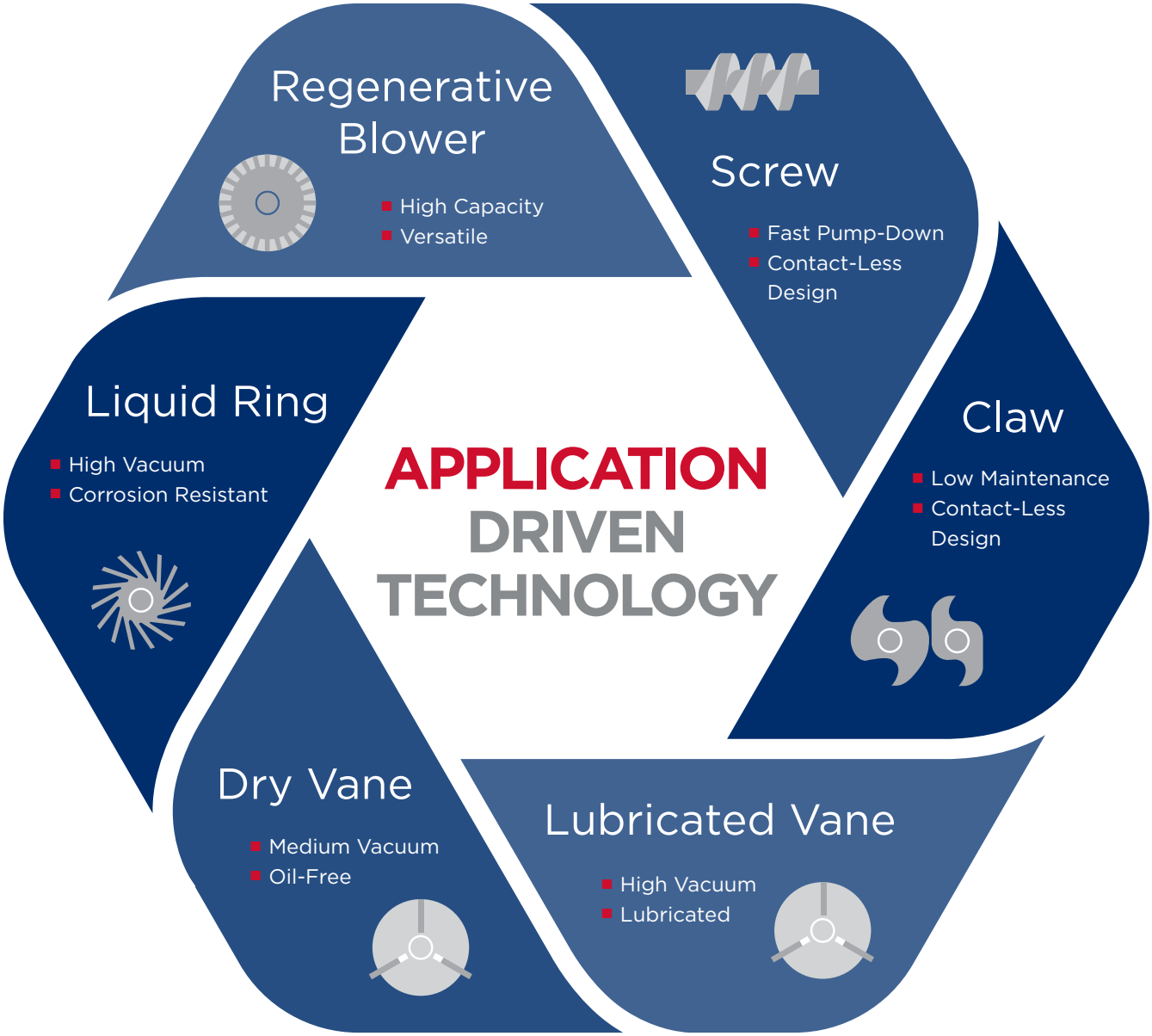
Did you know about...

our RANGE?

6 TECHNOLOGY **STYLES**

PRECISION OPTIONS FOR **YOUR APPLICATION**

OVER **420** **MODELS**



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?

Plastics

Aerospace

CNC Routers

Soil Remediation

Automotive

Dental

Medical

Oil Separation

Printing

Environmental

WoodWorking

Laboratory

Packaging

Conveying

Wind Turbine Blades

Parts Drying

Food Processing

Manufacturing

Surface Suction

Agriculture

Extrusion

Water Treatment

Biotech

Degassing

Poultry

Particle Analysis

Fish Farming

Beverage Production

Paper Production

Did you know about our...

REGENERATIVE BLOWERS?

Elmo Rietschle
by Gardner Denver

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

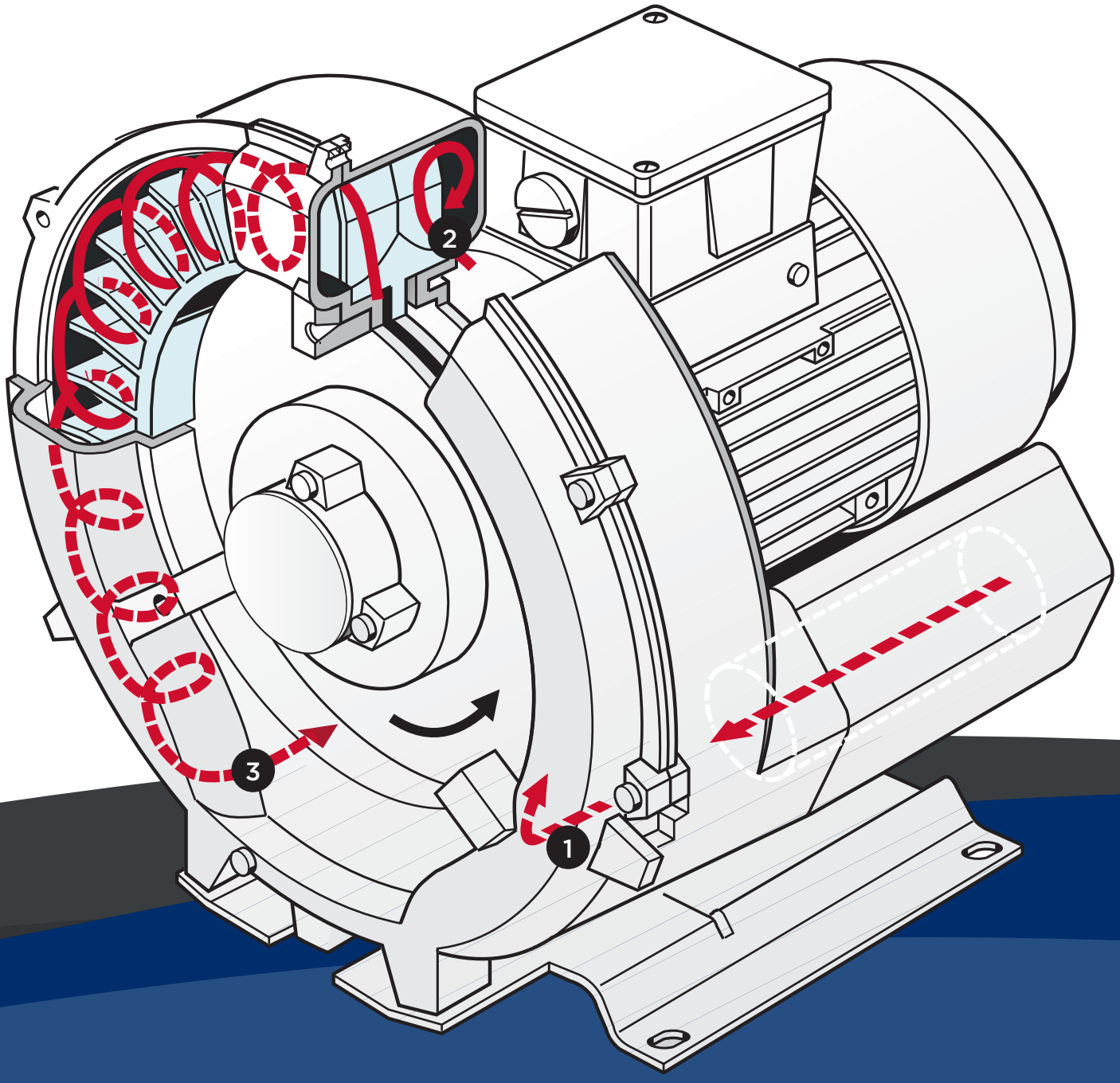
Technology	Specifications
Regenerative Blowers G Series	UP TO **1,550** CFM **14** PSI **16** inHg

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.



Elmo Rietschle
by Gardner Denver

Did you know about our...

LUBRICATED VANE?

Technology	Specifications
Rotary Vane Pumps V Series	UP TO **903** CFM **29.91** inHg 0.38 Torr

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?

Elmo Rietschle
by Gardner Denver

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

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?

Claw Advantages

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

Technology	Specifications
Claw C Series	UP TO **671** CFM **32** PSI **27** inHg

Elmo Rietschle
by Gardner Denver

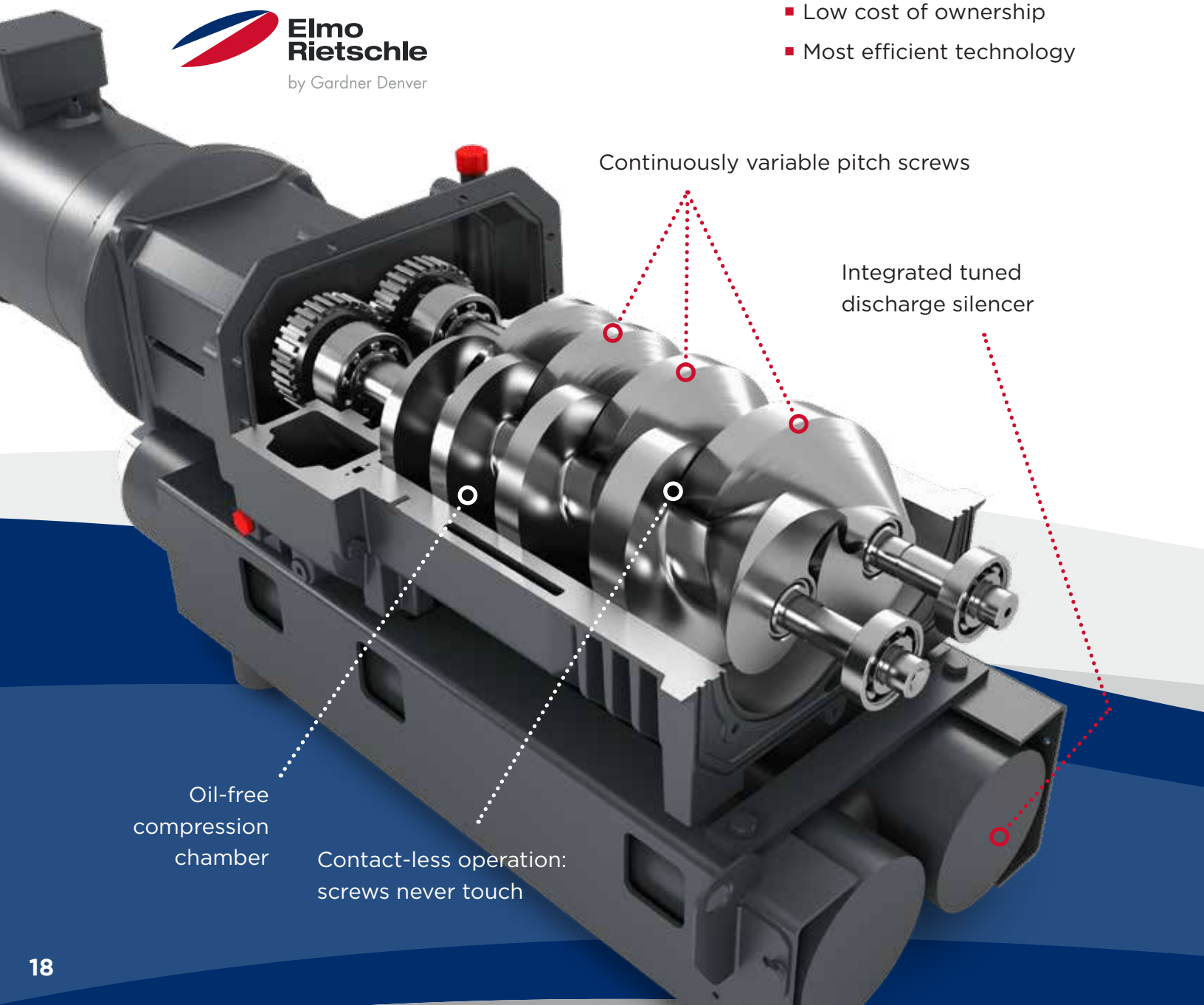
Did you know about our...

SCREW?

See why we have Best-In-Class PERFORMANCE

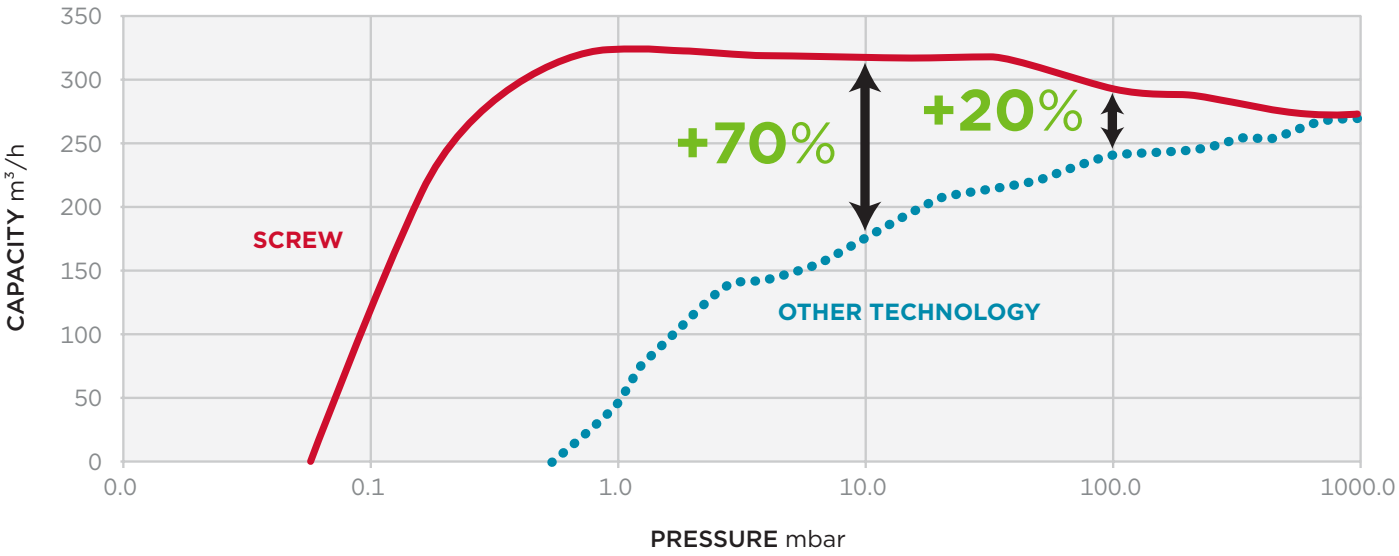
- Contact-less design
- Fast pump down-times
- Innovative screw pitch design
- Oil-free compression
- Low cost of ownership
- Most efficient technology

Elmo Rietschle
by Gardner Denver



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

Screw vs. Alternative Technology AT THE SAME HORSEPOWER



Up to **70**% more flow during pump-down

= FASTER pump-down

= FASTER cycle time

= MORE $

Available in Chemical Grade & Industrial Versions

FOOD PLANT PRODUCTION MANAGER

"After installing the VSI

OUR PRODUCTION

MORE THAN

DOUBLED

from 4 Packs to 9 packs per minute."

Did you know about our...

LIQUID RING?

High Water Carry-Over

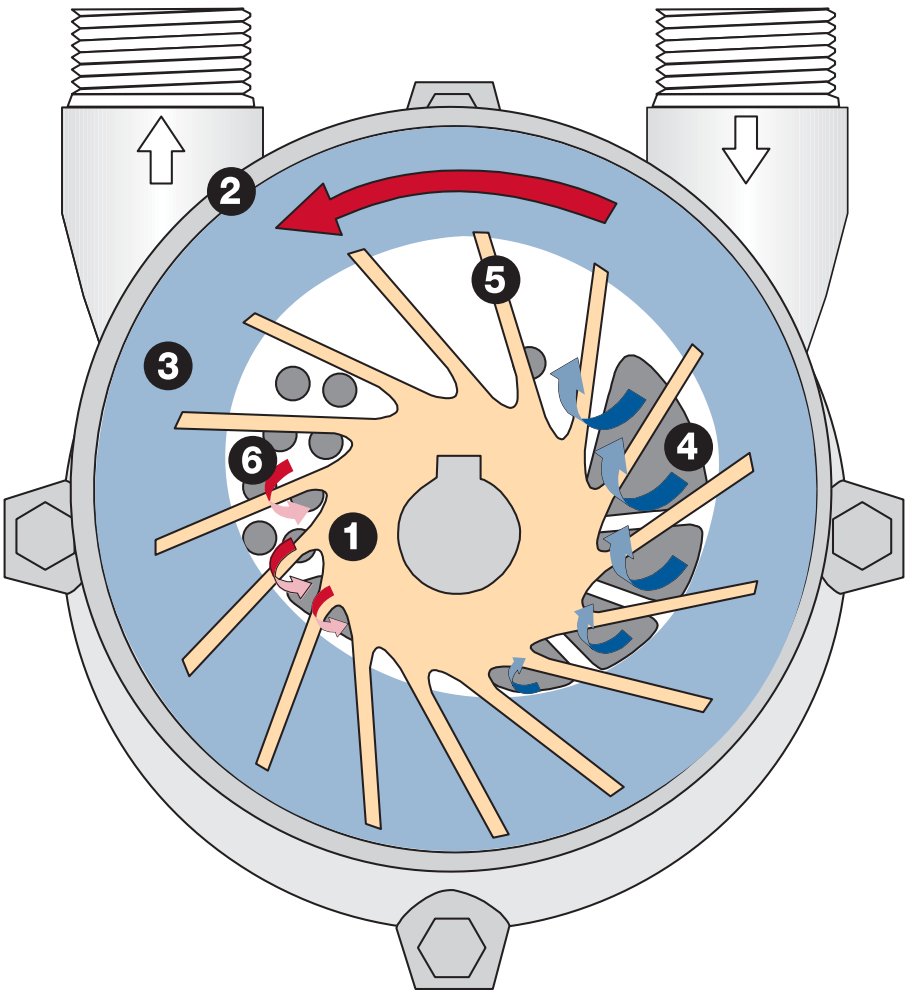
= LOWEST in Class for Horsepower Use

= SAVINGS

Small but Mighty

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

Technology	Specifications
Liquid Ring Pumps L Series	UP TO **353** CFM **36** PSI **29** inHg



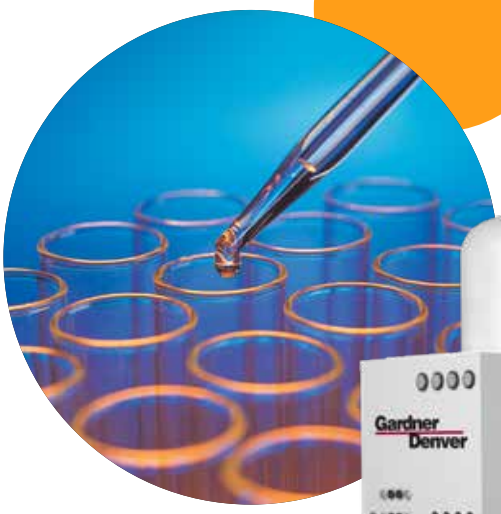
Operating Principle

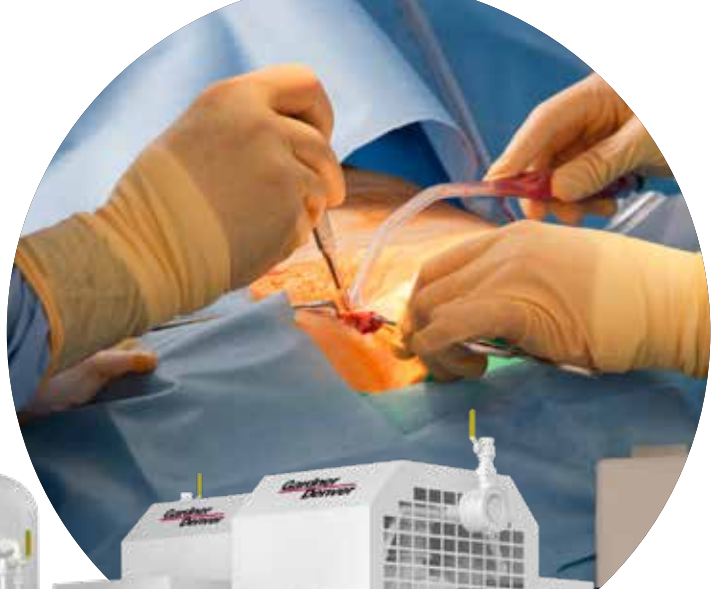
- The impeller **(1)** is the only moving part.
- It rotates without contact inside the pump casing **(2).**
- A rotating liquid ring **(3)** seals the impeller on the front and seals its blades against one another.
- Gas flows through the inlet slot **(4)** into the blade cells.
- The impeller is offset 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®

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Please recycle after use.