



POSITIVE DISPLACEMENT BLOWER

# Conveying **Solutions**



It's all about...

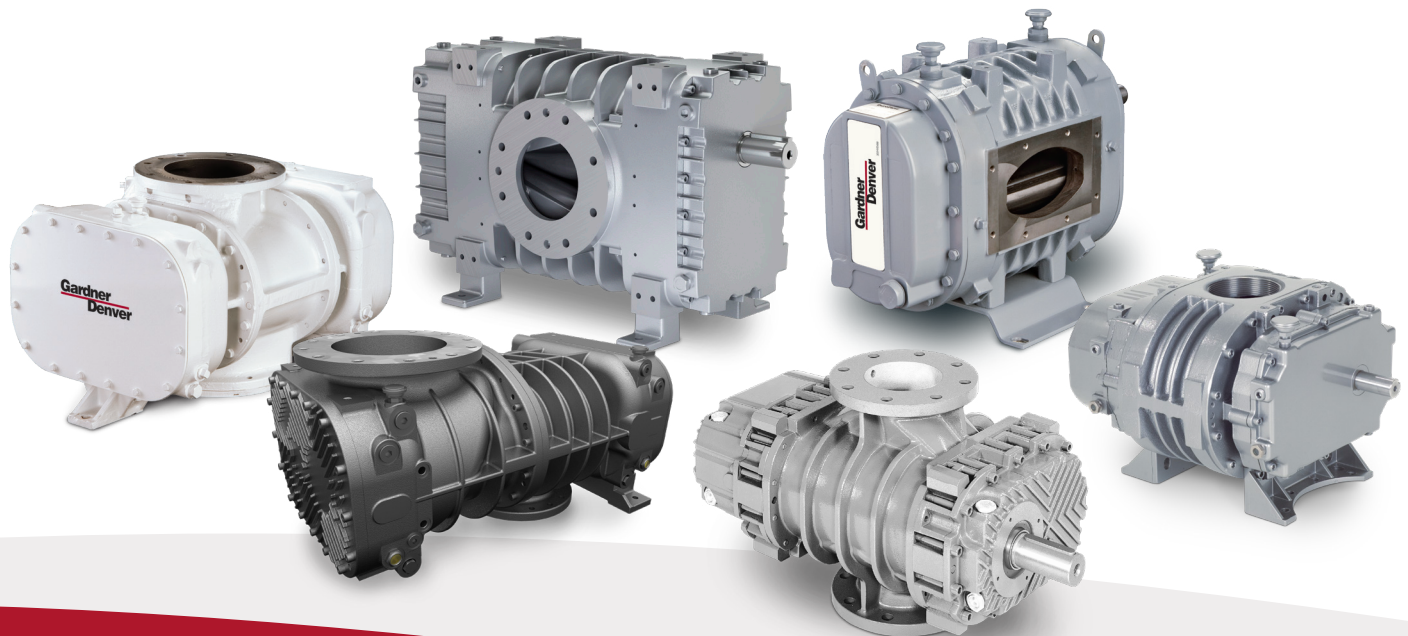
# the LEGACY

World-class Blower Design & Manufacturing

## Built to Suit Any Application

- Manufactured in the USA\*
- Diverse product offering to ensure your unique system requirements can be met
- Rigorously tested to meet high performance standards in the harshest environments
- Over 150 years of quality manufacturing with proven results
- Reliable delivery of oil-free clean air
- Backed by a network of experienced sales and service professionals

Gardner Denver has more blower technology styles than anyone else.





Coverage from  
Coast to Coast

Our regional distributor network ensures that we're here when you need us. With over 30 domestic locations, we're there when you require expert service.





Dilute & Dense  
Phase Conveying

**SOLUTIONS**



We're your first and **ONLY** call!

It's all about...

# the APPLICATION

Requested by Leading Original Equipment Manufacturers (OEMs) for  
A Wide Range of Industrial Processes & Product Mixtures

INDUSTRY	APPLICATION
Cement & Lime	Fluidization & Burner Feeding
Power Generation	Fly Ash Conveying & Aeration
Bulk Material Handling	Railcar Unloading
Pulp & Paper	Chip Conveying & Process Vacuum
Catalyst Producers	Handling of Sensitive Materials
Baking	Dry Ingredient Transport & Blending
Resin & Plastic	Processing & Conveying
Pharmaceutical	Contamination Free Handling
Food Packaging	Food Handling
Steel	Feed Lance Injection
Recycling	Conveying
Power Plants	Alternative Fuel Injection in Fluidized Beds
Pet Food	Post-extruder Transportation
Petroleum	Carbon Black/Prills
Adhesive & Sealant Manufacturing	Bulk Material Handling
Chemical	Soda Ash & Sodium Bicarbonate
Fertilizers & Agriculture	Transportation of Chemically Aggressive substances

## Dilute Phase Conveying

High velocity system well suited for continuous conveying.

## Semi-Dense Phase Conveying

Medium-rate transfer offers lower particle degradation and abrasive wear at a higher velocity than dilute phase conveying.

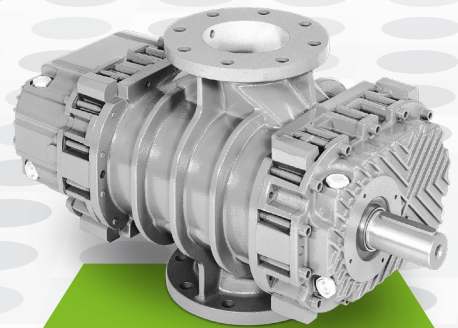
## Dense Phase Conveying

Low velocity suited for fragile or abrasive materials.

It's all about...

# the BLEND

Your systems are not all the same—  
why should your blower be?



## RBS SERIES

Tri-Lobe

Heavy Duty

Efficient



## DUROFLOW

Solid Bi-Lobe

Heavy Duty



## SUTORBILT & SUTORBILT DSL

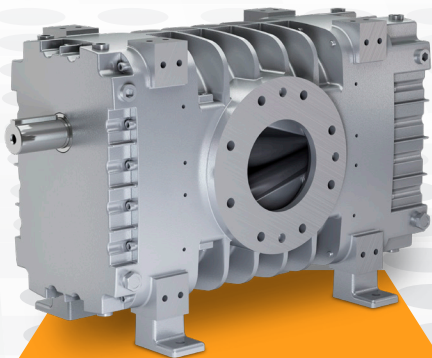
Bi-Lobe & Tri-Lobe

Cool Air

# LARGE AIR BLOWER SERIES

Gardner Denver offers a wide range industrial application blowers.

Our experts can help you customize your system to meet your needs; more technology styles provides tailored solutions for your system.



**HELIFLOW**

Twisted Tri-Lobe

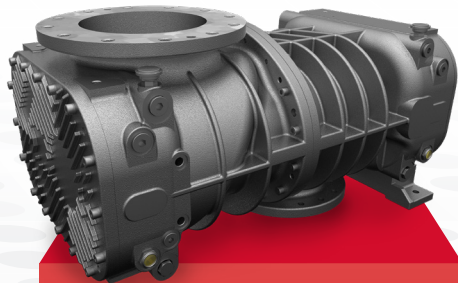
Low Noise  
Heavy Duty



**CYCLOBLOWER**

Screw

Energy Savings  
Low Noise  
Heavy Duty



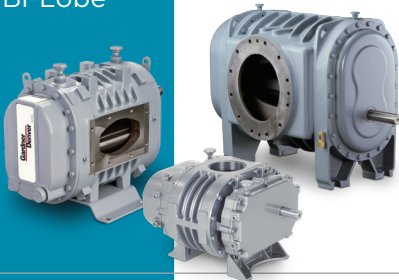

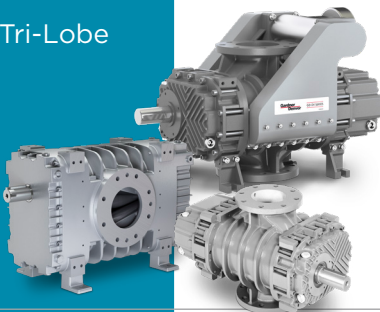


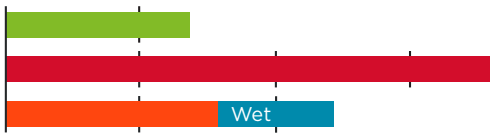


**CYCLOBLOWER H.E.**

Screw

Most Efficient  
High Pressure  
Low Noise  
Heavy Duty

It's all about...

# the RANGE

Technology	Specifications		
<div>Bi-Lobe</div> <div></div>	<div>UP TO</div> <div>26,000</div> <div>15</div> <div>24</div> <div>CFM</div> <div>PSI</div> <div>inHg</div>	<div></div> <div>GD DuroFlow®, GD Sutorbilt®</div>	
<div>Tri-Lobe</div> <div></div>	<div>UP TO</div> <div>14,570</div> <div>15</div> <div>27</div> <div>CFM</div> <div>PSI</div> <div>inHg</div>	<div></div> <div>GD HeliFlow®, GD RBS, GD Sutorbilt Tri-Lobe</div>	
<div>Helical Screw</div> <div></div>	<div>UP TO</div> <div>6,700</div> <div>36</div> <div>24</div> <div>CFM</div> <div>PSI</div> <div>inHg</div>	<div></div> <div>GD CycloBlower®, GD CycloBlower® H.E.</div>	
<div>Blower Packages</div> <div></div>	<div>UP TO</div> <div>5,625</div> <div>36</div> <div>17</div> <div>CFM</div> <div>PSI</div> <div>inHg</div>	<div></div> <div>IQ, IQ-RB, IQ-HE</div>	

# It's all about... **TOUGHNESS**

The Gardner Denver Duroflow is  
Designed for Dusty, Abrasive Environments

- Single piece, high-strength rotor casting
- Durable design to extend blower life
- Oversized bearings
- Dual-splash lubrication
- Advanced oil and air seals
- ISO 9001 quality certified

Built  
for YOU,  
**BUILT TO  
LAST**



DuroFlow Series



It's all about...

# the PROTECTION

Hot Air Spoils Products

## Our Blowers are Designed to Run Cooler



### The Sutorbilt Series Delivers

- Coolest in its class to protect your product
- The most versatile blower available
- Grease- or dual-splash lubrication
- Over 240 configuration options
- Bi-Lobe & Tri-Lobe options
- Quiet series option

### Enhanced Sound Performance with Tri-Lobe

- Available in 3-5" gear sizes
- Reduced pressure pulsation
- 3-5 dBa reduction when compared to Bi-Lobe
- Legendary efficiency

For over 75 years, the Sutorbilt family of positive displacement blowers and vacuum pumps have been synonymous with quality and reliability. The Sutorbilt line is at the heart of an ever-expanding variety of air solutions working every minute of every day around the globe.

Sutorbilt Legend Series



It's all about...

# the ROBUST RBS

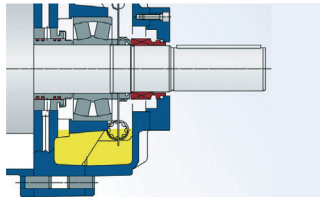
Available in 29 Sizes

## The RBS Series Delivers

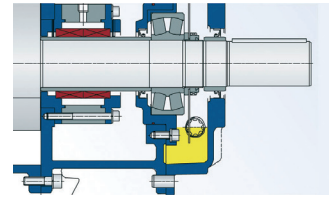
- Solid Tri-Lobe Rotors Offer Quiet, Efficient Operation
- Robust Design for Reliability
- Flexible Mounting Options for Easy Drop-in Replacement
- Dual Splash Lubrication
- 100,000 Hour Bearing Life
- Increased Efficiencies

## Options

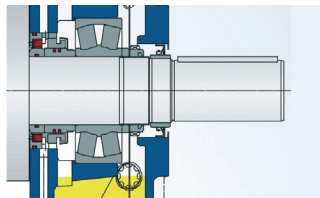
- High Vacuum Options
- Force Feed Lubrication
- Pre-Package Availability
- Special Seal Options



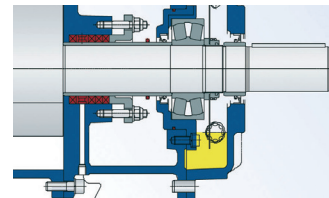
Single Mechanical Seal



Double Mechanical Seal

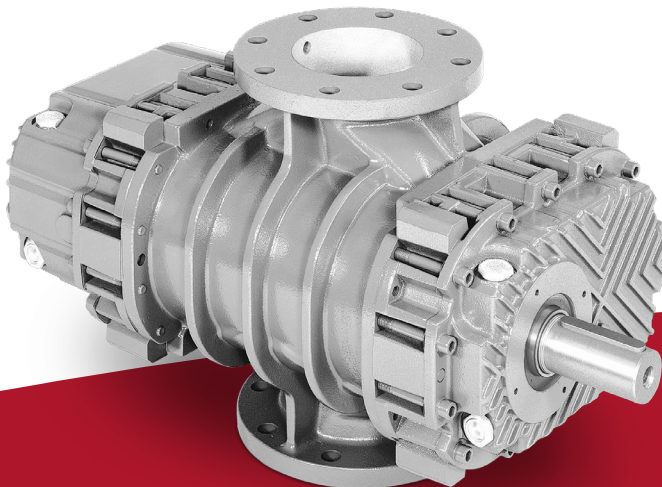


Lip Seal



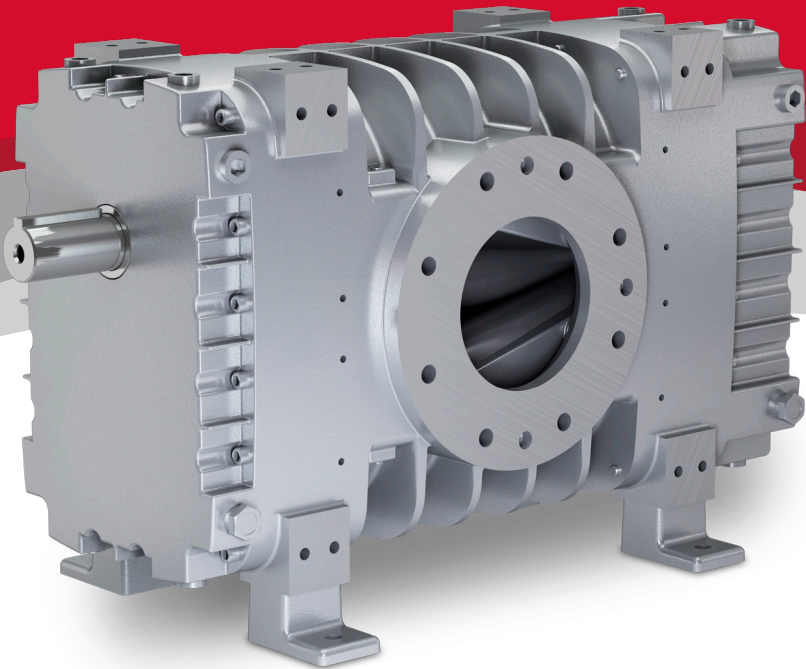
Gland Seal

RBS Series



It's all about...

# the PULSE



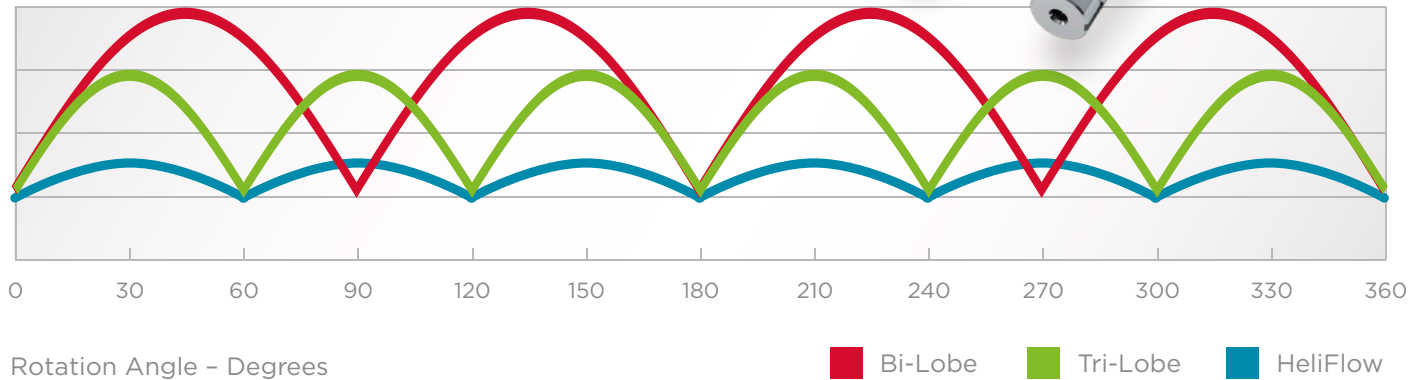
HeliFlow Series

Protect your ears,  
Protect your WORKFORCE





## CHANGE IN PRESSURE PULSE



## The HeliFlow Series

REDUCED PULSE = LOWER NOISE = QUIETER OPERATION

### Lower Noise

Discharge pulsation is the chief contributor to high noise levels. HeliFlow provides the lowest pressure pulse in the lobe blower market. This reduces noise levels by 4-7 dBA over similar sized, straight-lobe blowers.

### Reduced Pulsations

HeliFlow provides more consistent flow variation, reducing the potential for damage to downstream valves and instrumentation.

### Higher Reliability

Discharge pressure pulsation causes axial thrust and higher variations in torque resulting in reduced bearing life. The HeliFlow smooth pulse operation extends the life of the blower.

BACKED BY A  
**18 Month**  
WARRANTY

From date of initial use or  
24 months from date of shipment



It's all about...

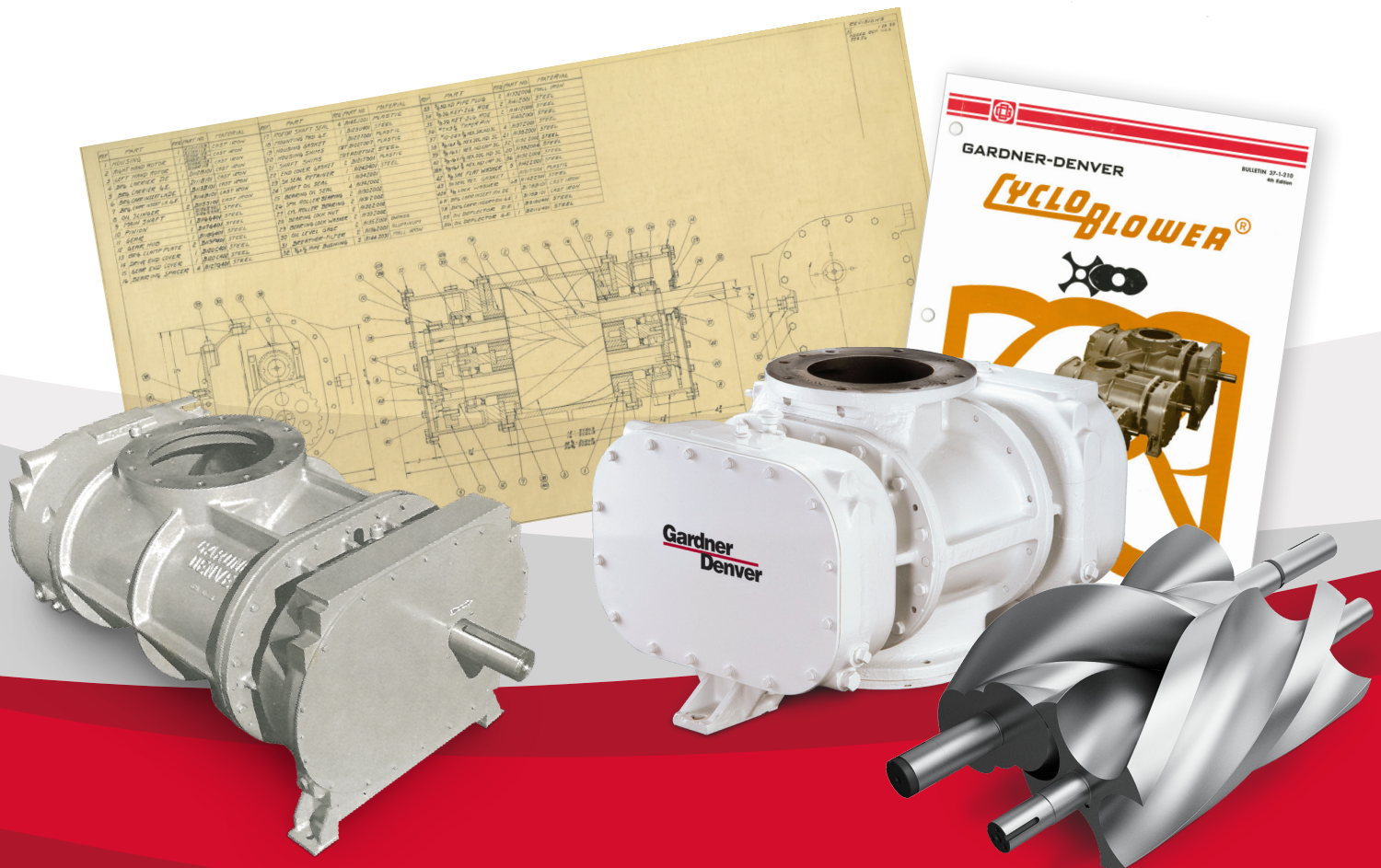
# PROVEN HISTORY

## The ORIGINAL Rotary Screw Blower

A Reputation Earned by a Proven History of Quality, Reliability, and Performance

### CycloBlower: Unique Screw Design

- Decades of proven results
- Efficient, shock-free compression
- Dependable quality
- High capacity
- Energy savings made possible by screw design
- Ideal for continuous operation
- Can be used for dense phase applications
- Clean air/gas delivery
- Installation flexibility
- Low cost installation





Experience Matters: Over 25,000  
CycloBlower Installations World-Wide

It's all about...

# SAVING MONEY



## TOTAL COST OF BLOWER OWNERSHIP

- Energy
- Maintenance
- Investment

- Energy consumption is typically the largest cost of ownership
- Save BIG with best-in-class energy efficiency
- Lower your bottom line, increase your profits

INVEST WISELY  
REDUCE ENERGY

*Save Money*

## CYCLOBLOWER H.E. VS. STRAIGHT LOBE

BLOWER TECHNOLOGY	BHP USED @ 15 PSI	ENERGY COST PER YEAR
Standard Straight Lobe	163	\$106,695
CycloBlower H.E.	129	\$84,604

\*Calculations based on the cost of providing 2,000 cfm of air for 8760 hours (1 year of 24/7 operation) assuming motor drive efficiency of 90% and electricity cost of \$0.09/kWh.

**\$22,090**

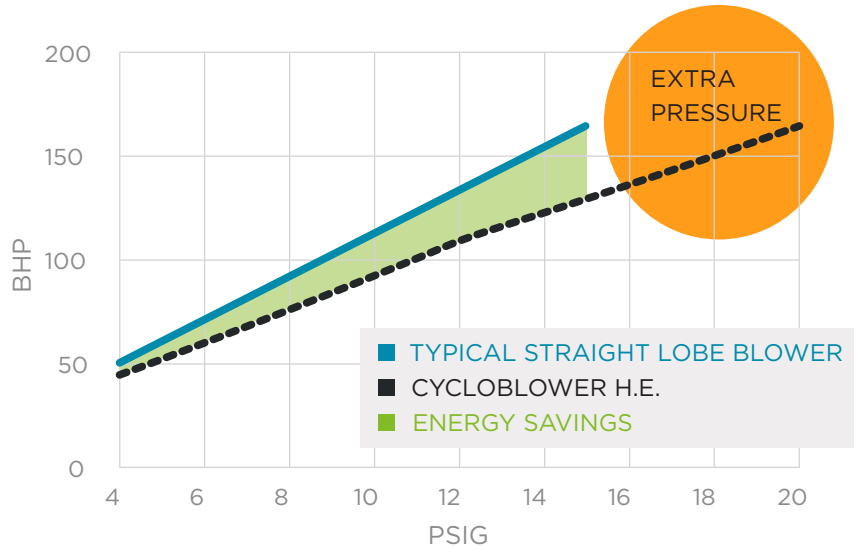
ANNUAL SAVINGS



It's all about...

# HIGH PRESSURE

BRAKE HORSEPOWER REQUIREMENT COMPARISON  
at 2000 CFM

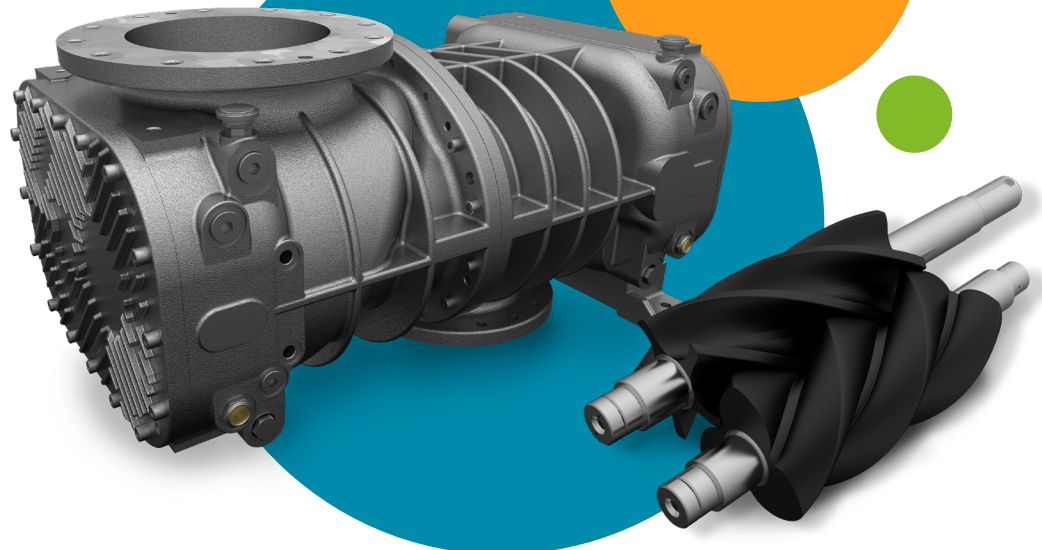


## Innovation Working for You!

- In many comparable applications, the CycloBlower operates more efficiently
- CycloBlower H.E. delivers higher pressure than other straight-lobe blowers
- Lower Horsepower = Lower Operating Costs
- Higher Pressure = New Conveying Possibilities

## The CycloBlower H.E.

- Can support dense phase conveying
- Oil-free compressed air
- Eliminates the need for traditional air compressors
- Best-in-class energy efficiency



It's all about...

# the Complete Package

Gardner Denver has more blower package options than anyone else

We can help you customize your system to meet your needs. More technology designs provides tailored options for you.

- Smart Design
- Easy Maintenance
- Compact Installation
- Quiet Operation
- Enclosed or Unenclosed Available
- Inverter Duty Motors for VFD Capabilities

## IQ-RB

### SIMPLE

Straight Tri-Lobe

Pressure to 15 PSI

Vacuum to 15 inHg

5,500 Max CFM

3-500 HP

Fixed Speed

Mechanical Gauges



## IQ

### SMART

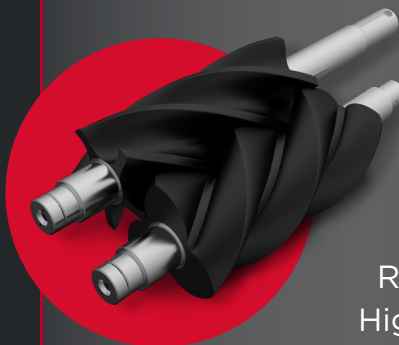
Twisted Tri-Lobe  
Pressure to 15 PSI  
Vacuum to 17 inHg  
1,500 max CFM  
7.5-100 HP  
Fixed Speed or VFD  
AirSmart Controller



## IQ-HE

### EFFICIENT

3x5 Helical Screw  
Pressure to 36 PSI  
5,625 Max CFM  
7.5-500 HP  
Fixed Speed  
AirSmart G2 Controller



Patented  
Rotor Profile  
High Efficiency  
up to 36 PSI



# Genuine Gardner Denver Parts & Lubricants

- Maintain the Gardner Denver performance advantage and reliability with Genuine GD Replacement Parts available through authorized sales and service representatives
- Protect your Gardner Denver investment with AEON® PD, the only lubricant specially formulated for all blowers in any environment
- Available for standard, food grade and extreme duty applications



**Gardner  
Denver®**

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