

**Gardner
Denver**

POSITIVE DISPLACEMENT BLOWER PACKAGES

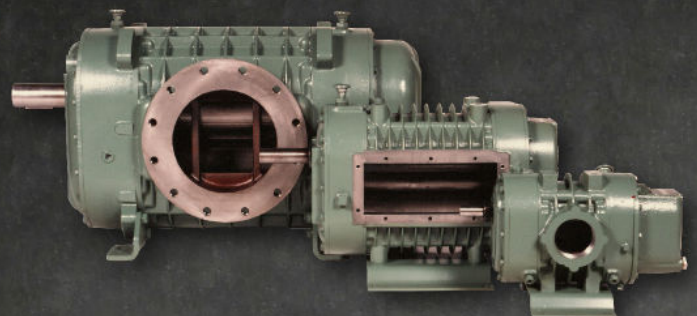
Family

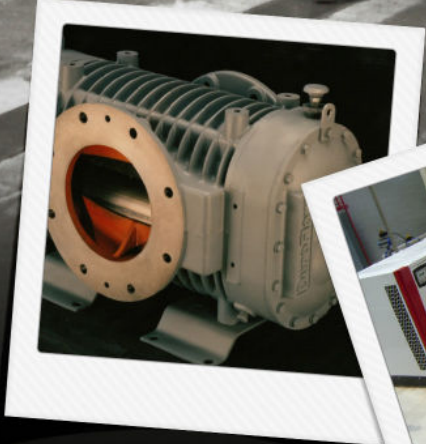
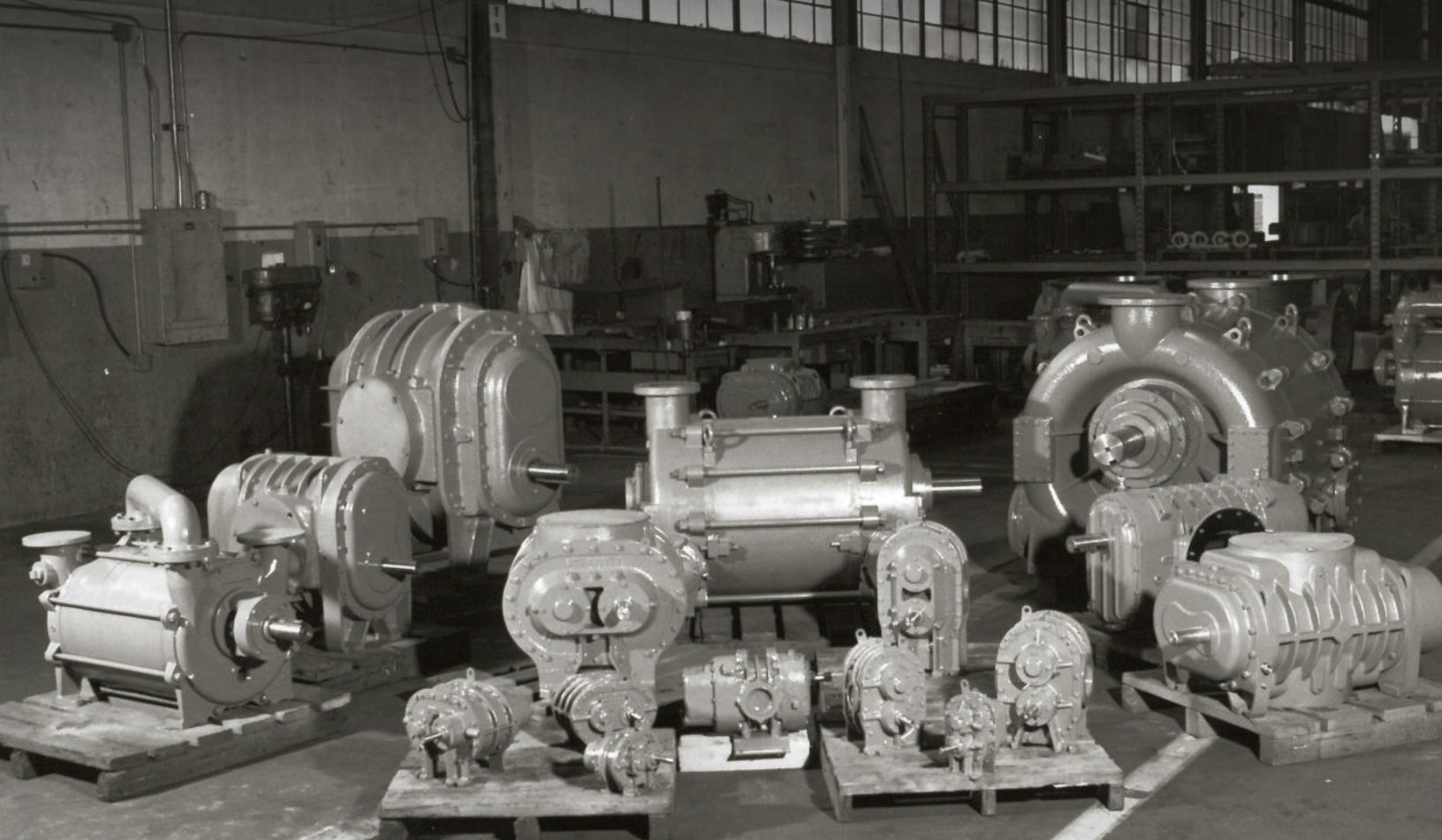


It's all about...

A trusted & reliable brand, ensuring that you have the right blower package for the job

Quality, Reliability & Performance





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

6,000 Max CFM

3-500 HP

Fixed or Variable 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 or Variable Speed
AirSmart G2 Controller



Patented
Rotor Profile
High Efficiency
up to 36 PSI



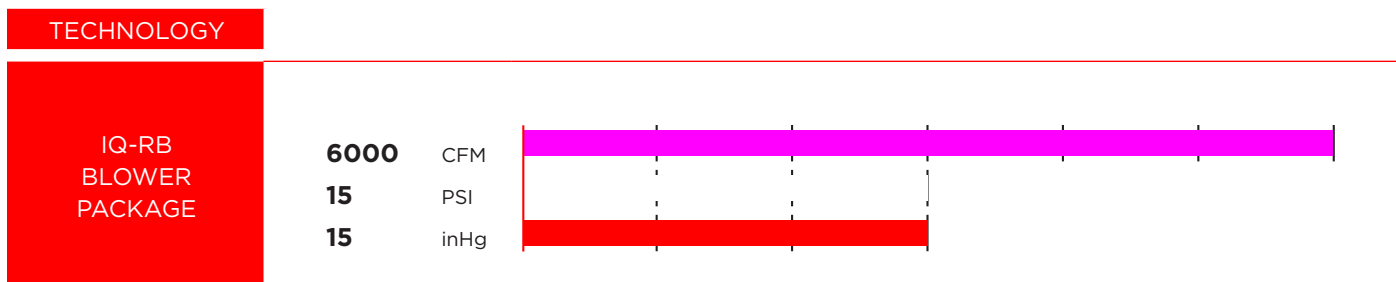
It's all about...



- RBS blower (tri-lobe design)
- Fixed and variable speed
- Inverter duty motors for VFD capabilities
- Low cost
- Mechanical gauges

- Significantly reduced dimensions
- Optimizes floor space

RELIABLE PERFORMANCE



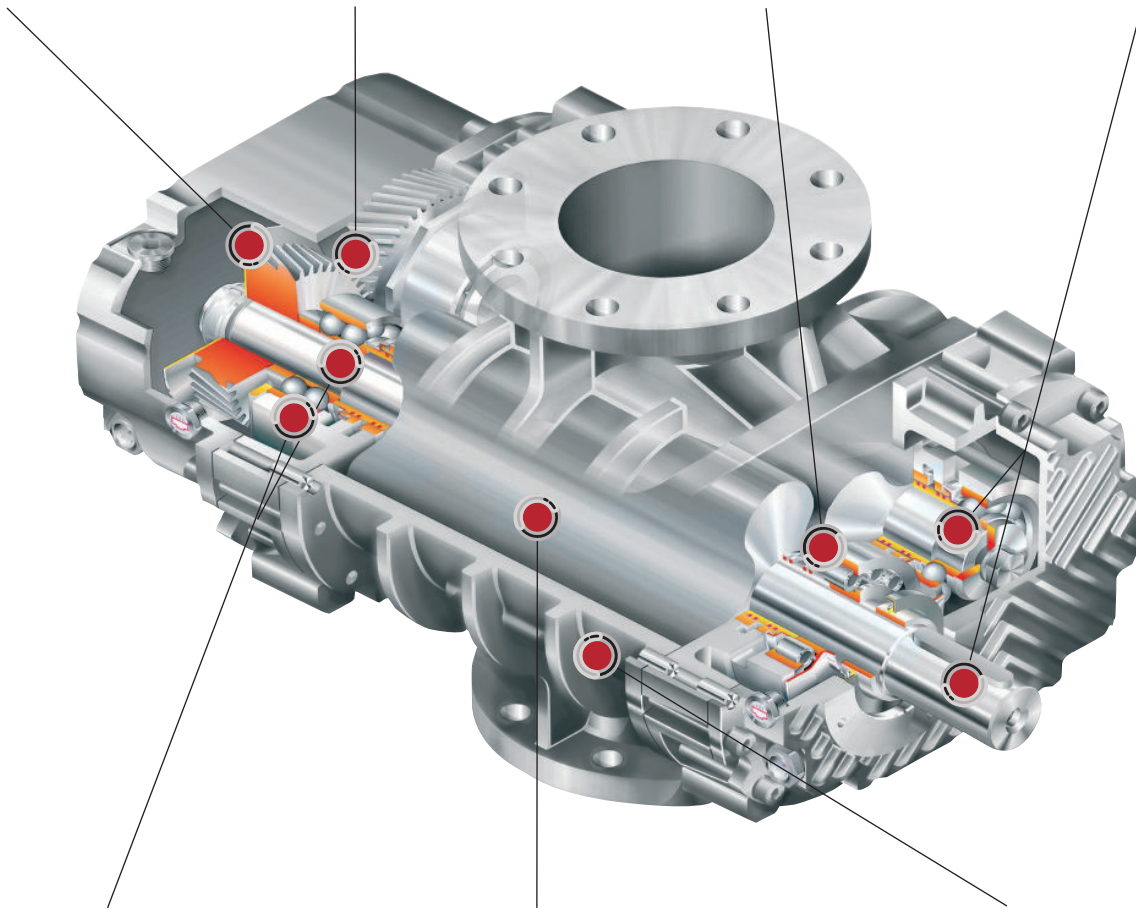
RBS Design

Reliable dual splash lubrication on both the drive and gear ends for longer product life

Helical timing gears for smooth and quiet operation at all speeds

Piston rings and flinger maximize seal life in continuous severe duty applications

High strength shafts that allow higher operating pressures and rotation speeds



Reinforced roller bearings are calculated for a lifespan of 100,000 hours under the most severe operating conditions

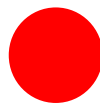
Involute three-lobe rotors offer the highest performances and efficiencies

High strength impeller case is heavily ribbed and machined from a single piece of cast iron to retain internal clearances and improve heat dissipation

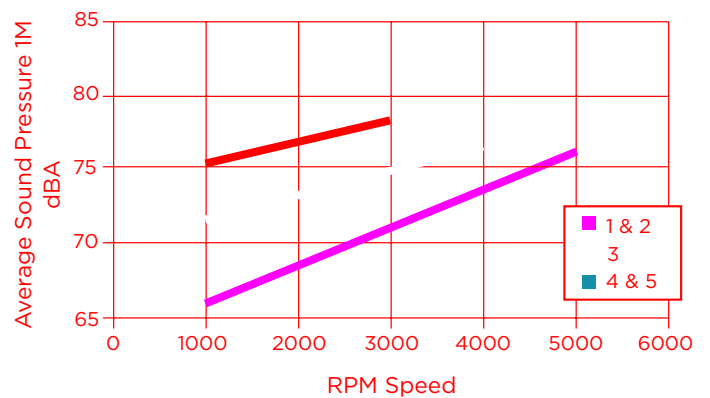
It's all about...

- Patented design reduces noise
- Compact design = decreased system costs
- Can be installed side-by-side
- Easy access via removable front and upper panels

- Unique noise enclosure design with double sound insulation panels
- Tri-Lobe technology reduces flow pulsation
- Discharge silencer
- Patented tunable inlet filter/silencer reduces noise (pictured below)



TUNABLE
INLET
FILTER/
SILENCER



We Keep It Simple to

Access: All maintenance operations are performed from the front with the removal of the front panels

Oil Change: Can be performed with easily accessible fill and drain hoses

Oil Level Check: Oil levels can be checked via gauges with or without the blower running

Inlet filter restriction gauge

Discharge pressure gauge

Discharge temperature gauge

Minimizes downtime

Reduces maintenance costs

Removable panels permit easy access

Easily viewable oil levels & streamlined oil changes

Automatic belt tensioning

Simple belt replacement

HP	3-15	15-60	25-125	60-300	125-500
CFM	150	650	1400	3400	6000

*The range is dependent on vacuum or pressure applications.



It's all about...

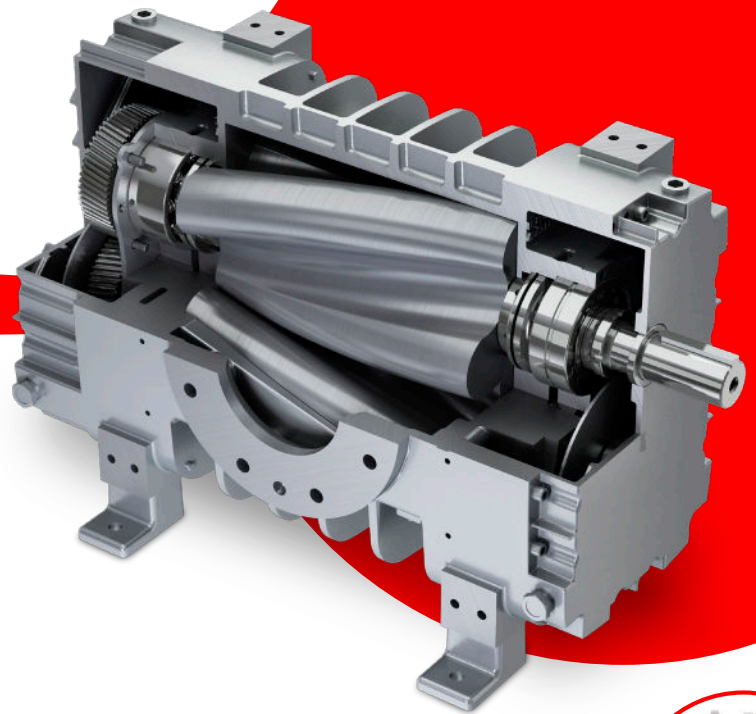


TECHNOLOGY

IQ BLOWER PACKAGE

1,500 CFM
15 PSI
17 InHg





Strong design, reliable performance, and quieter operation achieved through:

Reduced pulse

Discharge pulsation is the chief contributor to high noise levels in blowers

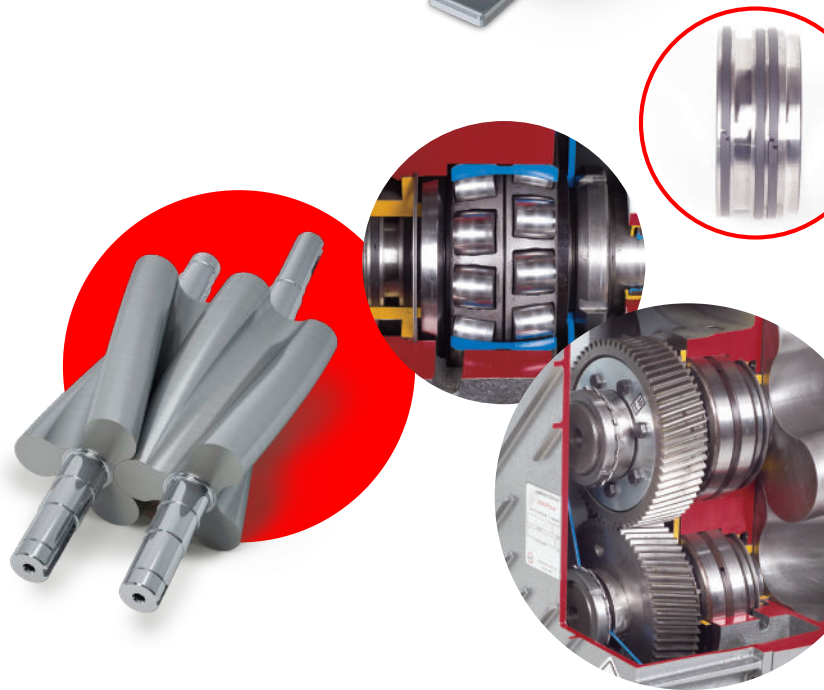
The unique helical rotor profile significantly reduces pulsations

This reduces noise levels by 4-6 dBA over similar sized, straight-lobe blowers

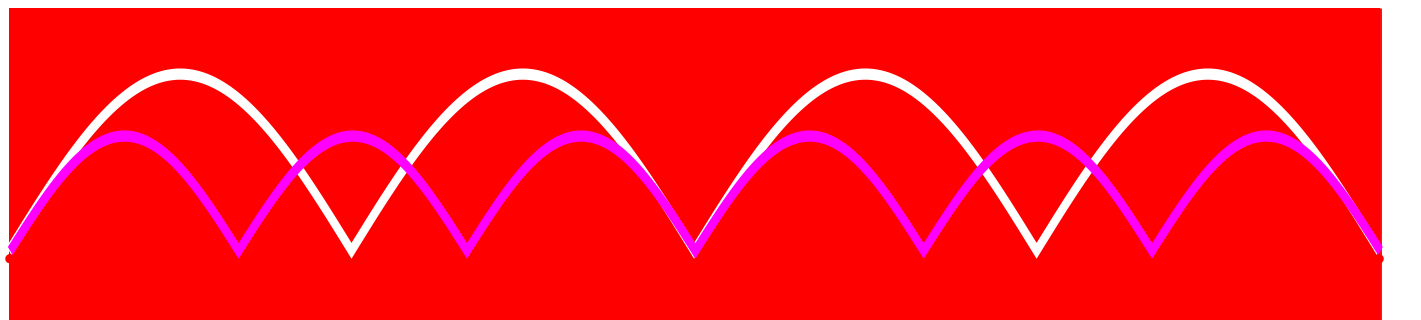
Helical gear design reduces noise

Solid rotors reduce vibration caused by ingested material in rotor cavities

The HeliFlow has a higher shaft load capacity than all other comparable lobe blowers



= LOWER NOISE



Rotation Angle - Degrees

Bi-Lobe Tri-Lobe HeliFlow

It's all about...

the Peak



Keeping you in control of your blower package

Sequencing only available for units with a VFD, fixed speed machines cannot sequence without a SCADA system in place

Can be process or timer operated

Allows distribution of operating hours

Reduces downtime for maintenance



The IQ package offers quiet operation, strength, reliability, and performance for all applications

The variable frequency drive and twisted tri-lobe rotor profile offer better efficiency than a straight lobe blower

Simple transit is attained with slots found on the package base frame



01

Monitors all functions



02

Sends notice if abnormal event happens



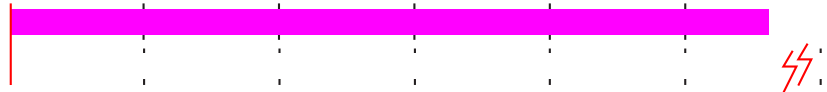
The AirSmart controller uses customizable timer to track maintenance schedules and notify the operator when routine service is required.

It's all about...

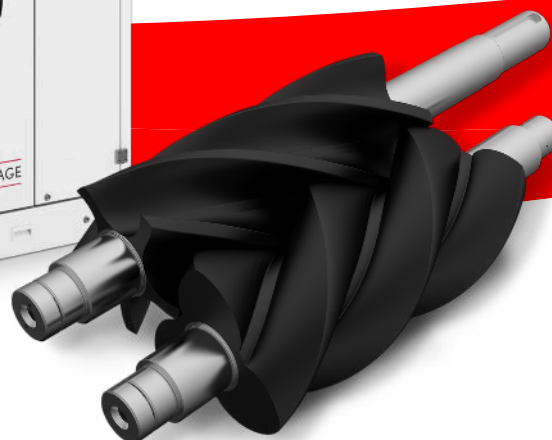
TECHNOLOGY

IQ-HE BLOWER PACKAGE

5,625 CFM
36 PSI



- High efficiency screw technology
- Low energy consumption saves money
- Delivers up to 36 psi
- High pressure conveying
- AirSmart G2 controller for 24/7 protection
- Silent operation
- Compact design
- Flexible options



Mechanical Gauges (Unenclosed Models)

G2 Smart Controller (Enclosed Models)

15 psi or Below = Low Pressure

Above 15 psi = High Pressure

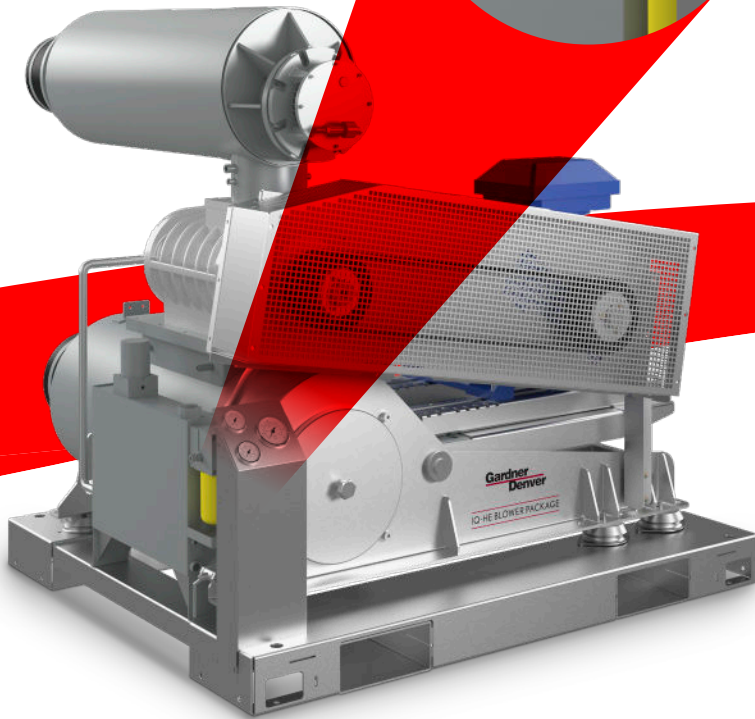
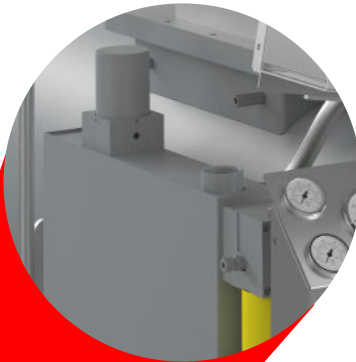
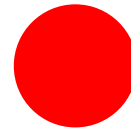
Oil Pump

Oil Reservoir

Oil Filter

Heat Exchanger

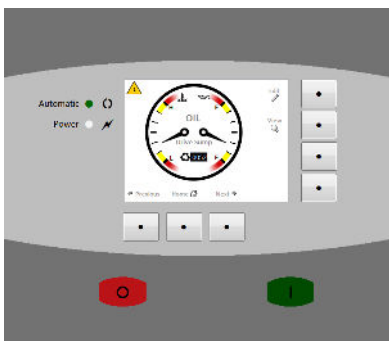
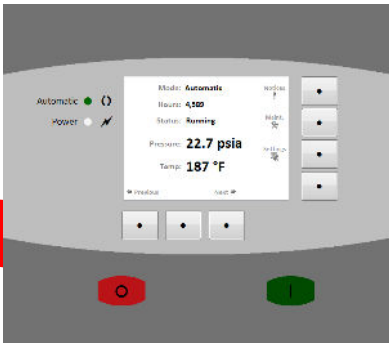
Oil Demister



Package

It's all about...

the Premium Package



AirSmart G2 Controller Screens

with
minimum energy consumption

AirSmart G2 controller

Constant monitoring

Highest levels of protection

Overpressure/high temperature shutdown

Service advisories

Status indicator

Maintenance schedule tracking

Patented rotor profile with PTFE rotor coating promising consistent performance

Reduced number of revolutions and energy consumption in all working conditions

Reduced energy bills

Quick return on investment



SAVE
UP TO **30%**
ON ENERGY
CONSUMPTION

Offers a turndown capability in flow to meet needs of customer with inverter duty motor

Suitable for intermittent use with frequent stops and restarts

Belt drive ensures the right capacity for the application

High and low pressure options to match customer application

Available enclosed or unenclosed

Extremely compact dimensions

Side-by-side installation

Optimizes floor space

All routine maintenance can be easily performed by only removing the front panel

Rotor profile

Less noise during compression phase

Low rotor rotation speed

Absence of a step-up gear

Sound emissions kept to minimum

Noise enclosure

Designed with optimized air passages and sound pressure reduction capacity

Separate from blower = no vibration transmitted to walls

Sound-absorbing material consisting of open cell polyurethane foam

Inlet & discharge silencer

Drastically reduce residual pulsations

Sound absorption material reduces sound energy

It's all about...

Can be transported via forklift/pallet truck
Simple electrical system connection
Simple piping connections

All routine tasks can be carried out from the front of the package for easy:

- Oil change
- Oil filter replacement
- Oil pressure adjustments
- Air filter replacement
- Belt drive replacement

Sight glass allows for immediate oil level check even during operation

Filter clogging and discharge pressure gauges

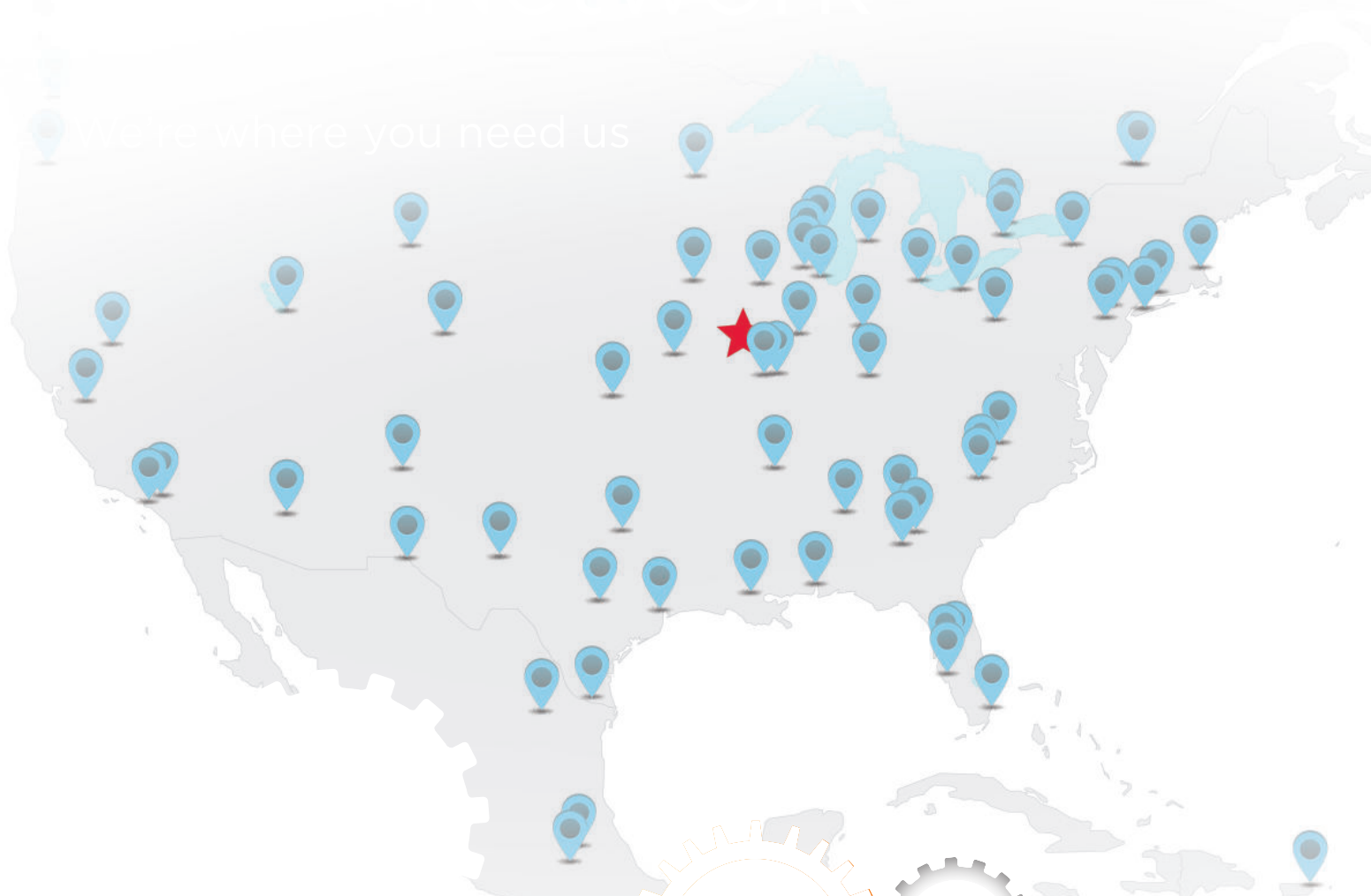
Reduces maintenance costs



It's all about...

NETWORK

We're where you need us



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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