

Gardner Denver

POSITIVE DISPLACEMENT BLOWER & VACUUM PUMP

IQ Packages



It's all about...

Smart Maintenance



Predictive Maintenance can reduce maintenance costs by up to 30 percent and downtime up to 45 percent.

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



Featuring HeliFlow Blower Technology

- Reduced pulse
- The HeliFlow has a higher shaft load capacity than all other comparable lobe blowers
- Helical gear design reduces noise
- Solid rotors reduce vibration caused by ingested material in rotor cavities



What's in it for Maintenance?

- Reduces Downtime
- Helps Reduce Maintenance Costs

Top Panel Access Capabilities

With just the top open, the air filter, conduit box, and oil fill are easily accessible.



Full Access for Easy Maintenance

Once all panels are removed, all major components and maintenance items are within easy access.

Monitor & report while away with Smart Operation

Integrated System Controls

- SCADA compatibility allows for system reporting & monitoring
- External drivers help keep operating costs down by matching blower performance to plant needs

Package Sequencing

The AirSmart controller allows up to eight blower packages to be sequenced.

- 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

AirSmart Controller

Keeping you in control of your blower package

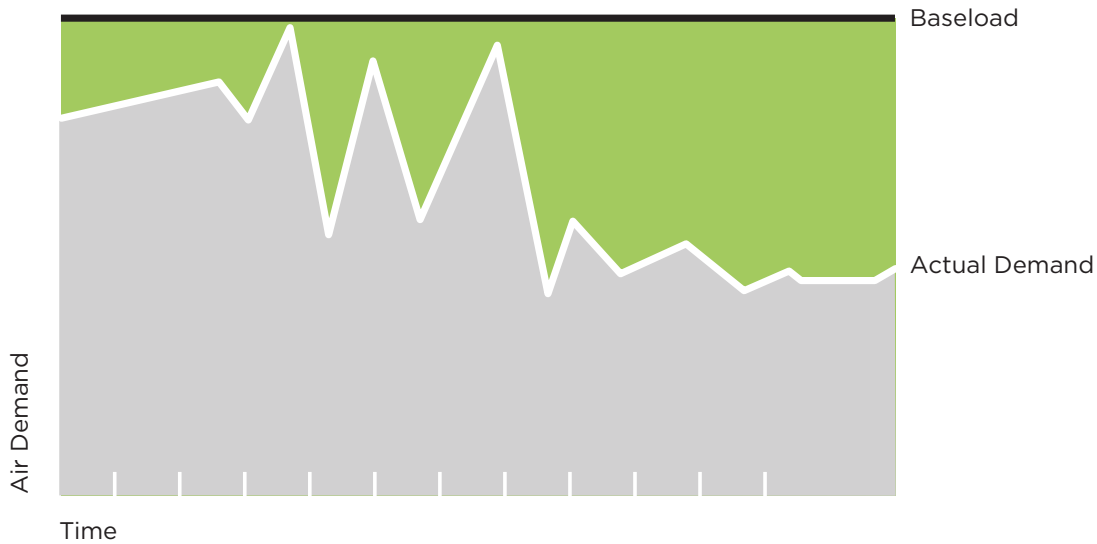


What's in it for Operations Managers?

- Reduces Operating Cost
- Reduces Downtime

Air when you need it... ...Savings when you don't

Variable Frequency Drive



Take Charge

Using external drivers, such as a dissolved oxygen sensor or tank level sensor, the AirSmart controller can adjust to the application demand.





“The easiest
equipment installation
we’ve ever had.”

- Plant Superintendent
Municipal Wastewater Plant

Crafted from the ground up

SMART DESIGN



Easy Installation



Simple Transit



Improved Belt Life

Easy Installation

Rigid base design allows the IQ package to be placed on a level surface, with no need for special foundation.

Simple Transit

Forkable slots on the enclosure provide easy unloading, movement, and setting into place.

Improved Belt Life

Smart base design extends belt life, prolonging bearing life in the blower.

Premium Vibration Isolators

Reduce vibration, helping lower noise levels by up to 20 dBA.

Simple Connections

Electrical and pipe work connections are all that need to be made to get the IQ package installed in a system

Tension Indicator

The belt tensioner keeps the drivebelt at the specified tension and indicates when it needs to be changed.



Vibration Isolators



Simple Connections



Tension Indicator

Systems that never sleep

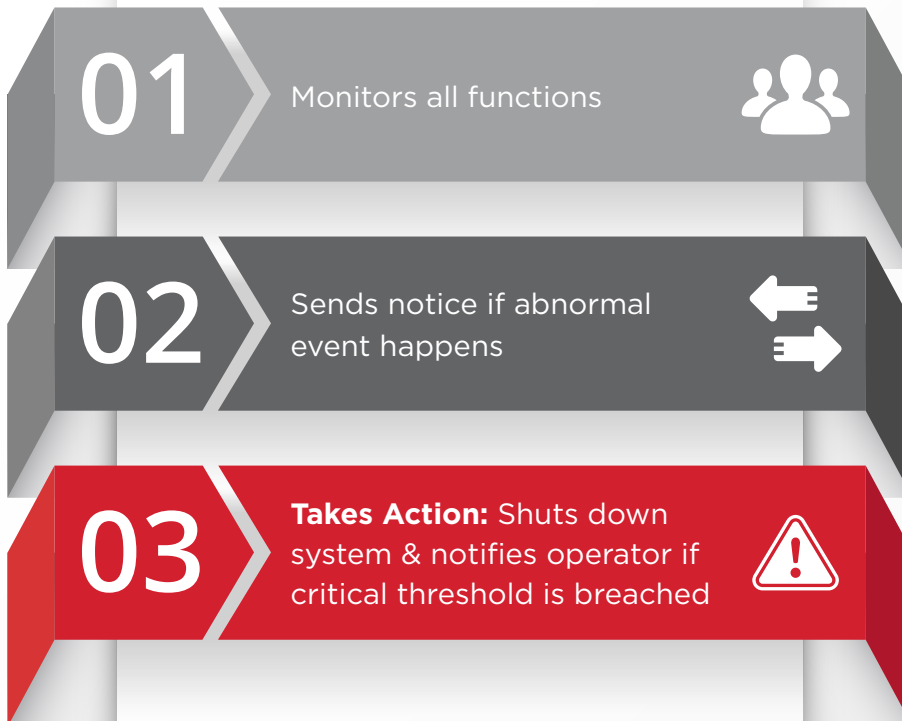
Smart Controls

IQ Advantages

- 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.



3 STAGES OF PROTECTION



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

STAGE 1



What can a machine tell you about itself?

While operating, the AirSmart checks vital parameters 30 times per second and displays the current conditions.

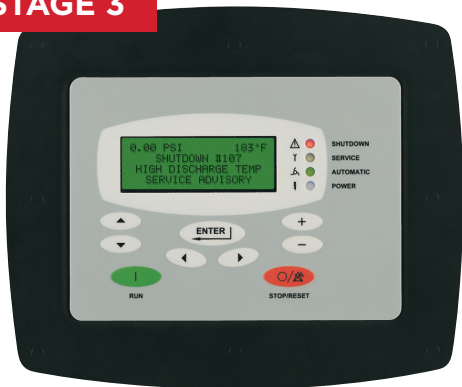
STAGE 2



Can it know when it needs help or when it doesn't?

When one or more preset thresholds is exceeded, the AirSmart controller displays an advisory notice.

STAGE 3



Can a machine seek help before it is broken?

When a critical parameter is exceeded, the AirSmart will shut the blower down.

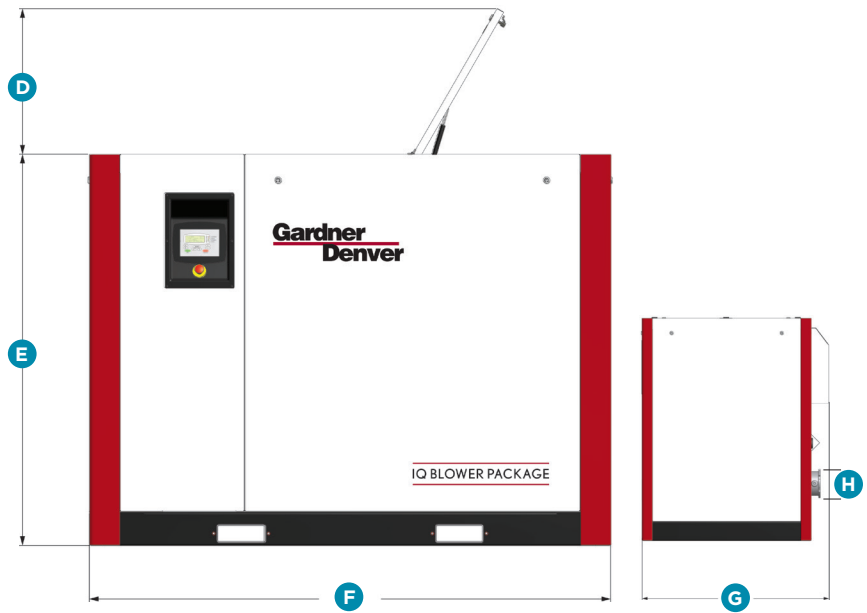
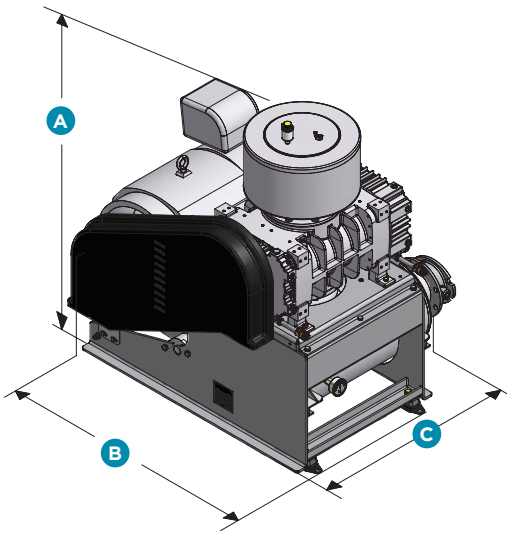
Prevents damage and keeps repair costs down

Once shutdown occurs the AirSmart controller can send a notice to the operator

Records advisory and shutdown history to allow for reporting, troubleshooting and repair

Performance & Sound

The Numbers



DIMENSIONS*

SECTION	PACKAGE TYPE	
	MEDIUM	LARGE
A	47.5	60.91
B	39.57	55.69
C	32.38	49.94
D	29	24
E	51	64.52
F	65	86
G	41.76	53.99
H	4	6

*Dimensions measured in inches.

IQ Blower Package Delivers

- Pressure to 15 psig / 1034 mbarg
- Vacuum to 16" Hg / 542 mbar
- 200-1,500 icfm / 2549 m3/h
- 7.5-100 hp / 6-75 kW

WEIGHT

	PACKAGE TYPE	MAXIMUM WEIGHT**	
		LBS	KG
MEDIUM	Enclosed	2100	953
	Unenclosed	1300	590
LARGE	Enclosed	4200	1905
	Unenclosed	3000	1361

**Weights are approximate.

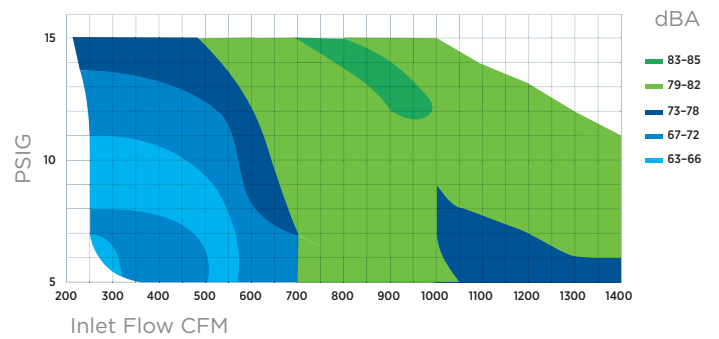
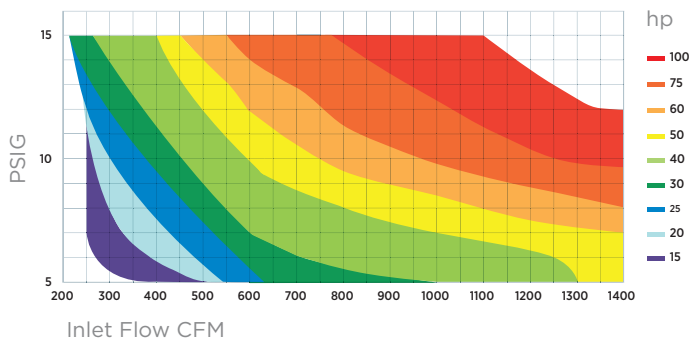


Performance & Sound

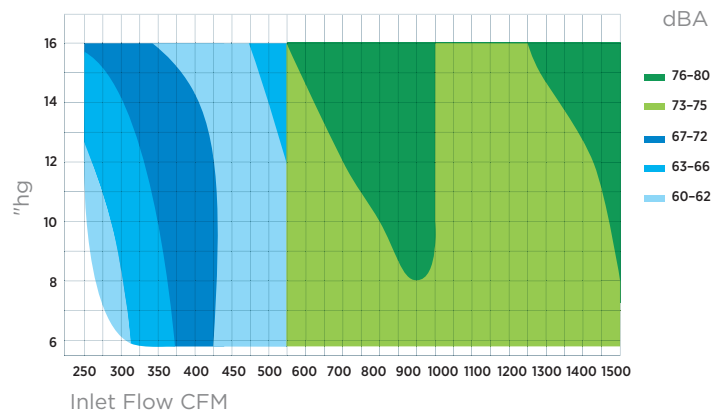
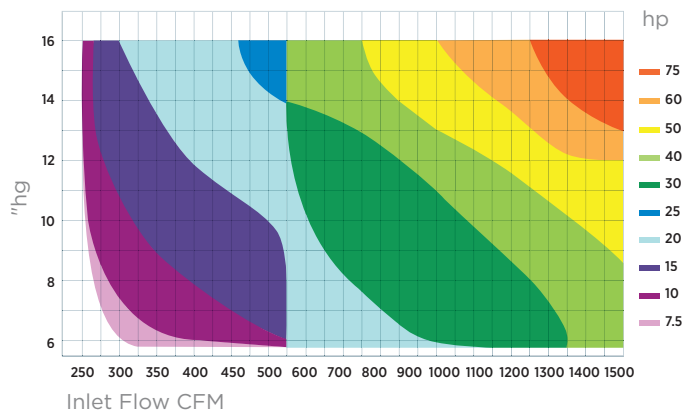
Performance based on inlet air at standard temperature of 68° F, an ambient pressure of 14.7 psia and 36% relative humidity. For performance at non-standard conditions, contact your authorized Gardner Denver representative.

Air and sound maps represent non-VFD IQ packages.

IQ Pressure Package



IQ Vacuum Package



Features

1. Starter Options

- Standard less starter
- Full volt starter
- VFD

2. TEFC EISA Motors

- EISA compliant Premium efficiency motors
- Standard 5-year warranty
- Available voltages (V/Ph/Hz):

- 200/3/60 - 575/3/60
- 230/3/60 - 380/3/50
- 460/3/60 - 415/3/50

3. Pre-Mounted Valves

- Relief and check valves come as standard
- Unloaded start valve available

4. Enclosure Cooling Fan

- Removes hot air from enclosure
- Can operate even when blower is not

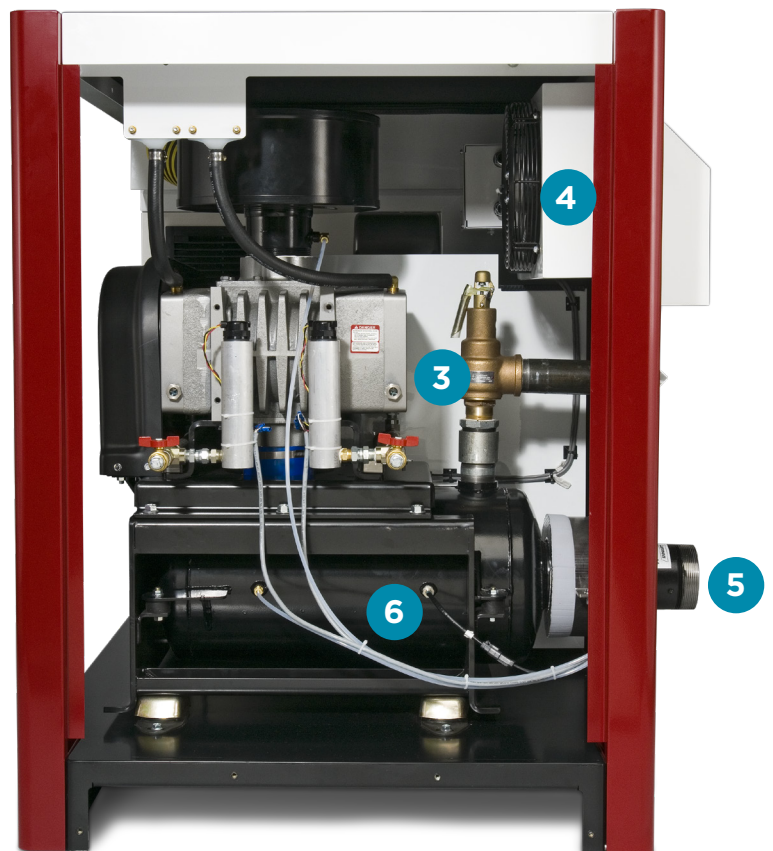
5. Vacuum/Pressure Connections

MEDIUM PACKAGE:

- 4" NPT pressure discharge
- 4.5" ID hose vacuum inlet

LARGE PACKAGE:

- 6" 150 lb. ANSI flange pressure discharge
- 6" or 8" ID hose vacuum inlet



6. Removable Discharge Silencer

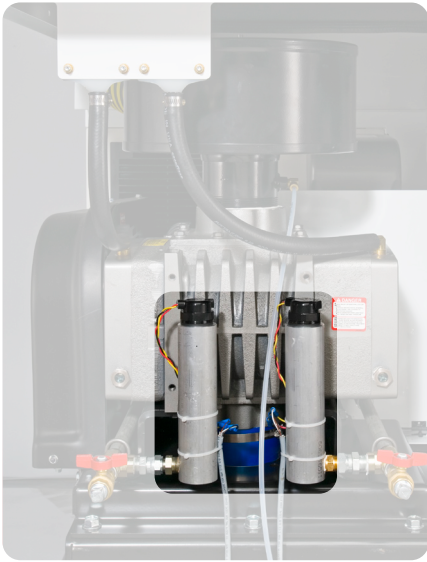
- Provides minimal pressure drop
- Significantly reduces sound and pulsation
- Available ASME coded silencer

7. Quiet Sound Enclosure

- Sound levels as low as 60 dBA
- Removable and hinged panels provide easy access for maintenance



Optional Equipment & Installations



Oil level sensors and oil temp sensors



Variable frequency drive

Additional Options:

- EMC Filter
- Line Reactors
- Full Voltage Starter
- AirSmart Controller Communication Module



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