

IQ-HS

High Speed Centrifugal Blower



Gardner
Denver

Efficiency Delivered

Maintenance Free

- Permanent Magnet Motor with oil-less technology requires no lubrication
- No minimum lift-off speed and near friction-less design ensures no wear and no replacement cost



Active Magnet Technology

- Monitors shaft position 15,000 times per second
- Maintains precise shaft location for optimal efficiency

Protection by design

Controller is...

Simple

- Easy to operate touchscreen interface
- Provides trending data for reporting

Smart

- Continuously monitors machine performance
- Monitors and records advisory faults and shutdowns

Flexible

- Able to sequence up to eight machines for more balanced run time
- Variable frequency drive allows pin-point operational accuracy
- SCADA compatible for easy system integration

Advanced

- Calculates exact moment to moment surge line
- Corrects performance as conditions

Durability

- One piece impeller is machined from solid billet aluminum providing increased strength and longevity

Efficiency

- Proprietary vane profile maintains high efficient operation over a wide range of speeds



Reliability

- One-piece cast aluminum volute with integral fins for increased strength and integrity



Robust Design

Precise Monitoring

Oil-less Technology

Maintenance Free

Unmatched Performance

Energy Efficiency

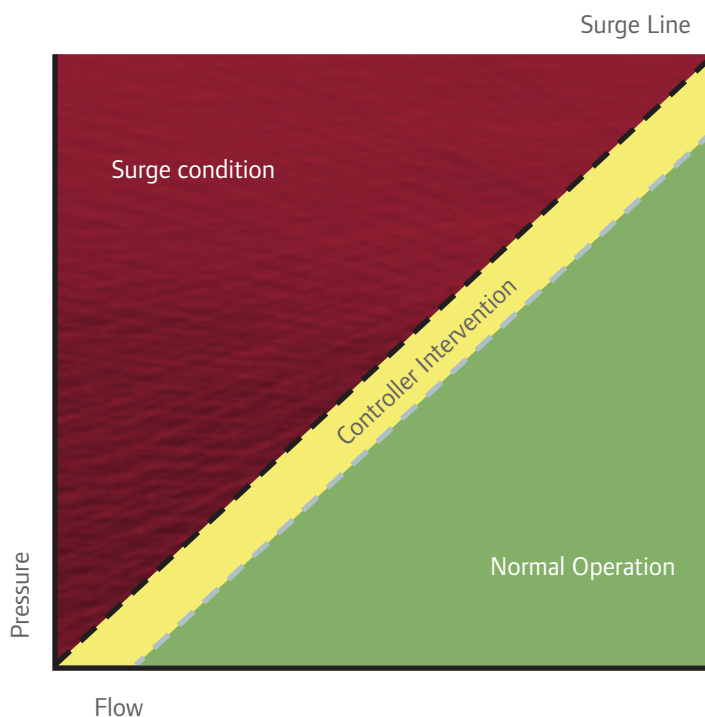
Peace of mind

Surge

- The point at which centrifugal machines cannot overcome the system resistance or backpressure
- Excessive surge conditions in centrifugal machines can cause package failure

Smart controls prevent surge conditions

- During normal operation, the IQ-HS controller provides constant monitoring of all variables
- Controller continuously calculates the exact surge line and intervenes once the performance threshold has been crossed



Parameters

Section	IQ-HS 75	IQ-HS 105	IQ-HS 150	IQ-HS 220	IQ-HS 300	IQ-HS 350	IQ-HS 400
Motor power (kW)	75	105	150	220	300	350	400
Max. pressure (kPa)	130	130	130	130	130	130	130
Flow (m ³ /min)	35~80	45~100	60~140	100~200	140~220	130~280	220~320

Section	IQ-HS 110 RC4	IQ-HS 160 RC4	IQ-HS 200 RC4
Motor power (kW)	110	160	200
Max. pressure (kPa)	300	300	300
Flow (m ³ /min)	32~42	46~54	63~75

Model	
RC1	<80kPa
RC2	80~110kPa
RC3	110~130kPa
RC4	2~3Bar

*Barometer 14.696 PSIA, Inlet Temperature 68 Deg F, 36% Relative Humidity.

Package Attributes

Quiet Enclosure

- Provide easy access to change inlet and enclosure filters

Easy Open Enclosure Panels

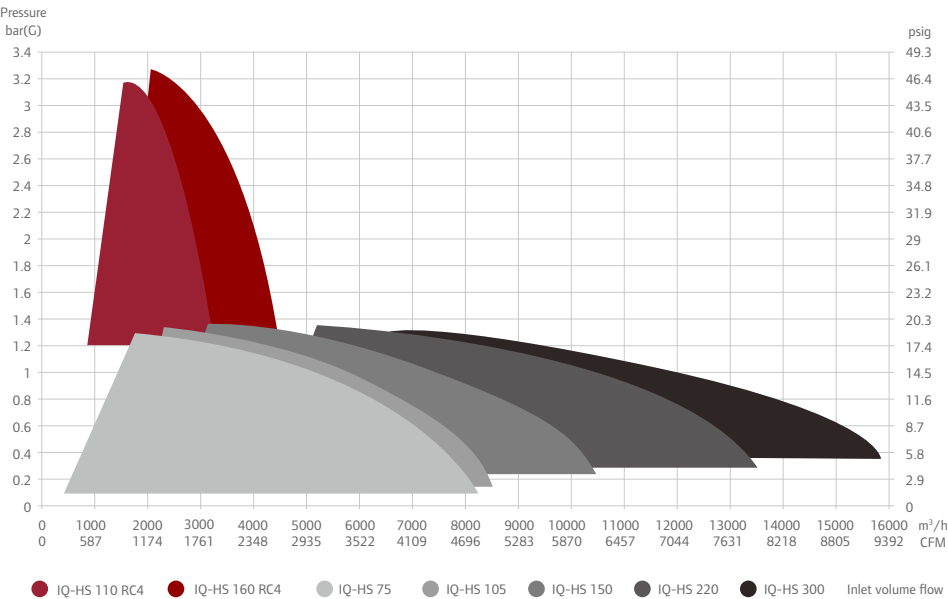
- Provide easy access to change inlet and enclosure filters

Optimized Cooling System

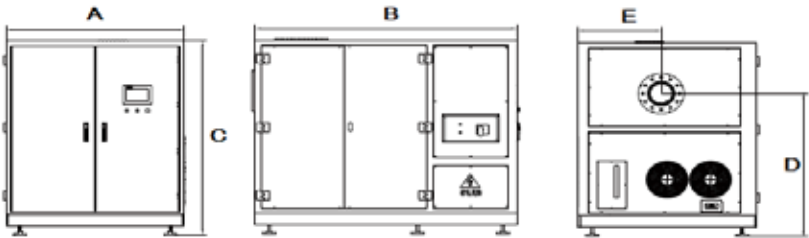
- Requires no external water source

Top Discharge Piping

- Allows flexible installation options



Traditional



Section	IQ-HS 75	IQ-HS 105	IQ-HS 150	IQ-HS 220	IQ-HS 300	IQ-HS 350	IQ-HS 400
A	1448mm	1448mm	1448mm	1700mm	1700mm	1700mm	1700mm
B	2385mm	2385mm	2385mm	2500mm	2500mm	2500mm	2500mm
C	1775mm	1775mm	1775mm	2100mm	2100mm	2100mm	2100mm
D	1296mm	1296mm	1296mm	1550mm	1550mm	1550mm	1550mm
E	421mm	421mm	421mm	790mm	790mm	790mm	790mm
Weight	1500KG	1500KG	1500KG	2500KG	2500KG	2500KG	2500KG

Section	IQ-HS 110 RC4	IQ-HS 160 RC4	IQ-HS 200 RC4
A	1636mm	1636mm	1636mm
B	2488mm	2488mm	2488mm
C	1883mm	1883mm	1883mm
D	1309mm	1309mm	1309mm
E	1050mm	1050mm	1050mm
Weight	2130KG	2130KG	2130KG

Industry Applications



Municipal sewage



Textile printing and dyeing



Petrochemical



Material delivery



Biomedical

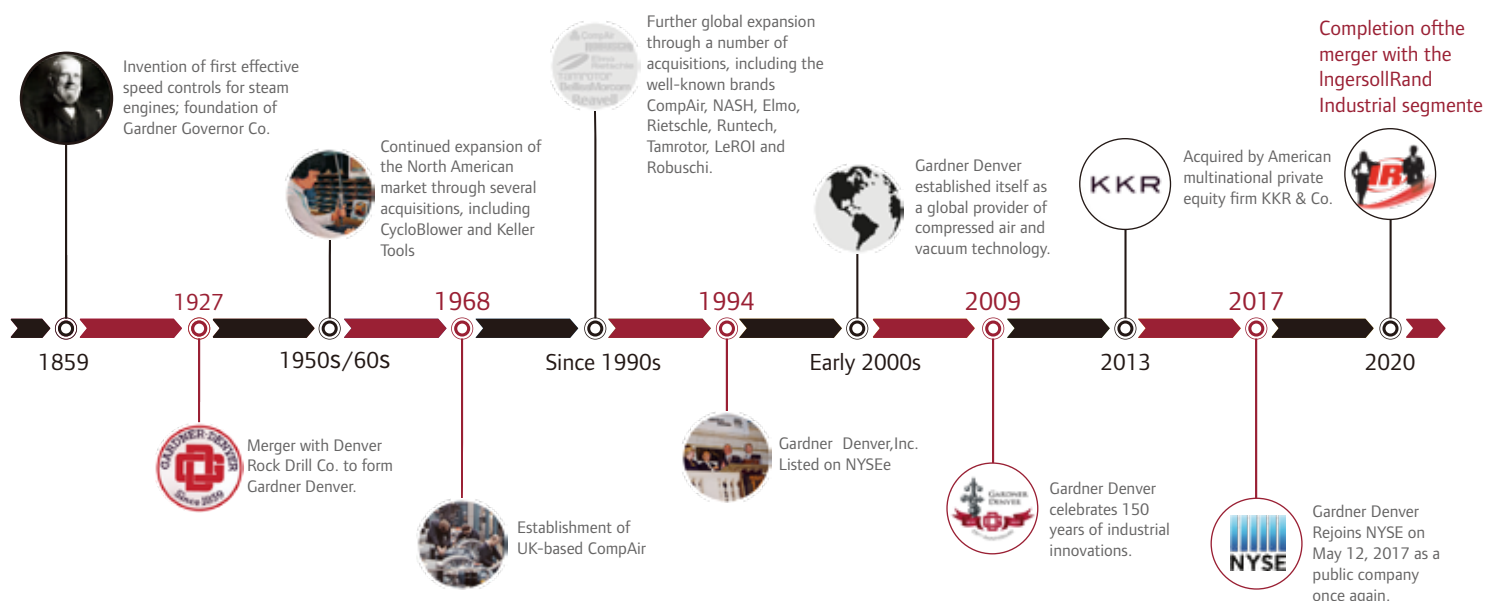


Food fermentation

Gardner Denver

Founded in 1859, Ingersoll Rand, Inc. Gardner Denver focuses on developing innovative products and engineering solutions that solve operational challenges for our customers. With global collaboration, strong customer service and in-depth expertise, we offer reliable, energy-efficient equipment for a wide range of manufacturing and process applications. As of March 1, 2020, The Ingersoll Rand Industrial segment was formally merged with Gardner Denver on March 1, 2020 to form the new Ingersoll Rand.

Now, as a larger and stronger company, we can further provide you with more comprehensive solutions and a broader portfolio of products and services. The new Ingersoll Rand is driven by an entrepreneurial spirit and an ownership mindset to make life better for our employees, customers and those around us.



Ingersoll Rand

Ingersoll Rand (NYSE: IR), driven by an entrepreneurial spirit and an ownership mindset, is committed to helping make life better for our employees, customers and those around us. Our customers rely on our technology-driven excellent performance in building critical business processes and industrial solutions. Even in the most complex and demanding conditions, our highly acclaimed portfolio of more than 40 brands of products and services stands out for its superior performance. Our product portfolio covers a wide range of sectors, including air compressors, pumps, blowers, fluid management, loading, power tools and material handling systems, as well as the well-known utility vehicle brand, Club Car. Our more than 16,000 employees worldwide will consistently provide our customers with reliable expertise, helping them to increase productivity and efficiency, and building lifelong connections with them. For more information, please visit www.IRCO.com.cn.

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