

# **Gardner Denver**

INSIDE & OUTSIDE THE BOX | IQ BLOWER PACKAGE

## **IQ & YOU**



# IQ Internal Benefits

## Quality Assurance

- All IQ packages are assembled in the U.S. and feature Gardner Denver manufactured blowers that have a track record as industry leaders going back decades. Blower models include: Sutorbilt DSL Legend, DuroFlow and the award-winning helical tri-lobe blower HeliFlow.
- IQ Delivers: 200-1500 ICFM, 5-15 PSI and 6-17 inHg.

## Durability & Longevity

- Electric-driven cooling fan operates for 10 minutes after the blower stops to expel residual heat from the package, preventing heat build-up and degradation of oil and belts, and promoting bearing longevity.
- The IQ contains an automatic belt tensioning system that counters the effect of belt stretching and efficiency slip. This maintains constant shaft and bearing load on the blower.
- Extensive FEA analysis developed the proprietary Gardner Denver blower base. The base is extremely rigid and reduces internal vibration by 76%, which prevents fatigue, reduces belt wear and overall noise, extending the operational life of the package.

## Quicker Maintenance & Increased Production Time

- The package's pop-up top allows visibility and direct access to all internal components, filters and conduit boxes without having to remove any panels.
- All enclosure panels are accessible with a quarter turn latch key, making internal access extremely fast.
- All maintenance components such as oil drain taps, filters, temperature and pressure sensors are immediately available behind the panels allowing easy access for routine work.
- All the major sensors have snap-in connectors making changeovers quick and easy.
- The oil refill caps are situated under the pop-top for convenience. The wide caps are suitable for fast direct refilling, eliminating the need for funnels.
- The entire blower package can be quickly removed from the enclosure in one piece to allow any major overhaul work to be conducted quickly. No need to disassemble and reassemble components inside a cramped enclosure.



**WHAT CAN  
IQ DO FOR  
YOU?**

Smart made simple with total control at your fingertip

# IQ External Benefits

## Data Collection & Communication via GD Air Smart Controller

- Central display for all standard data such as pressure and package temperature (inlet and discharge) readings.
- The controller goes beyond conventional gauges with information displays such as run time, oil sump and bearing temperatures.
- Operating and service histories can be gathered quickly for maintenance or trouble-shooting purposes.
- The Air Smart Controller puts you in control of your blower package. Pre-set operating parameters provide early warning advisories on pressure, temperature and service intervals, allowing for predictive maintenance rather than reactive repair.
- The Air Smart Controller is capable of communicating directly with dissolved oxygen sensors in waste water facilities.
- The Air Smart Controller is capable of communicating directly with SCADA control rooms, allowing for single-site monitoring.
- The Air Smart Controller can communicate any advisory data directly to a cell phone or laptop.

## ROI & Efficiency

- The IQ offers a high-efficiency variable speed drive allowing air flow and/or pressure to be matched directly to operational requirements.
- The Air Smart Controller can sequence up to 8 packages together and operate as a single unit for precise air delivery. Sequencing with the Air Smart Controller is only available for units with a VFD, fixed speed machines cannot sequence without a SCADA system in place.
- Fixed and variable speed machines can be combined to provide precisely the amount of air required and save costs. Rather than one oversized blower running constantly, two smaller units could be applied: one fixed speed unit for continuous use and one small VFD unit sequenced to provide air at only peak demand times.



Air Smart Controller

## Service & Support

- Gardner Denver proudly boasts what we feel to be the most comprehensive distributor network in the country.
- 24-hour service support from locally-based Gardner Denver certified technicians.
- Fast access to genuine Gardner Denver replacement parts and lubricants.

## Protection & Preventative Maintenance

- The Air Smart Controller can detect errors and take preventative action including advisory warnings sent to phones and laptops, or turning the package off before failure or damage occurs. Such preventative action extends the operational life of the package.
- Gardner Denver Variable speed drives are pre-engineered to match the blower outputs.
- Motor, VFD and controller come with a 5-year warranty.

## Easy Installation

- All enclosed blower packages have standard identical electrical fittings across all platforms for consistency and ease of installation.
- The integrated starter box, or VFD drive, means no additional space considerations or specialist wiring installation during setup for remote mounted starters or drives. Everything is contained inside the enclosure frame and is plug-and-play ready.
- Extremely rigid base design eliminates external vibration which removes the need for specialized fittings. A flat, load-bearing area is all that is required.

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by continuously improving all business processes  
with a focus on innovation and velocity


**Gardner  
Denver**<sup>®</sup>

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