

**Gardner  
Denver**

# Intelligent Smart Flow Management

Proactive real-time insight that ensures machine  
uptime and efficient performance - now

**iConn**   
by Gardner Denver



iConn - supporting  
Industry 4.0 initiatives



“Gardner Denver is our partner for compressed air which runs our 24/7 bottling operation in Germany. The new web-based GD dashboard allows us to monitor our operations and ensure permanent uptime.”

## Gardner Denver

### Leading manufacturer of compressors, vacuum pumps and blowers

As a leading provider of air compression and vacuum products for over 155 years, Gardner Denver is a worldwide figure in the industry, committed to its own IoT strategy. Our global team of IoT specialists have developed and evolved our Industry 4.0 solution “iConn” into a game changer for the compressed air market. Enabled in all of our major product lines, iConn enables our customers to achieve the highest operational improvements to their businesses.

### iConn – supporting Industry 4.0 initiatives

Not only does iConn keep you one step ahead by predicting potential issues before they happen, saving you precious time and expense, but the easy-to-use and install system also shows you how to optimise production and increase energy efficiency.

#### Next generation connectivity platform

iConn is a flexible platform enabling extended data analytics and pattern recognition algorithms leveraging Gardner Denver’s application know-how.

Analytical

Predictive

Cognitive



“We are a manufacturing company near Madrid that exports all over Europe. Through the **delivery of real-time warnings and alarms**, issues with our machines are **identified** before they become problems.”

## Proactive real-time monitoring and insight for your compressed air installation

iConn gives you the peace of mind and knowledge that ensures smarter and more efficient production, at the same time providing tangible benefits to your bottom line.

### Benefits of proactive real-time monitoring and insight

- Real-time monitoring, alarms and warnings to reduce the risk of downtime
- Browser-based analytics system for compressed air assets
- On-time maintenance as required optimising costs and ensuring longer machine life
- Optimal performance with machine parameter and over-time trend analysis
- Enabled for energy efficiency and production optimisation
- Gardner Denver asset analytics and efficiency audits as a service option

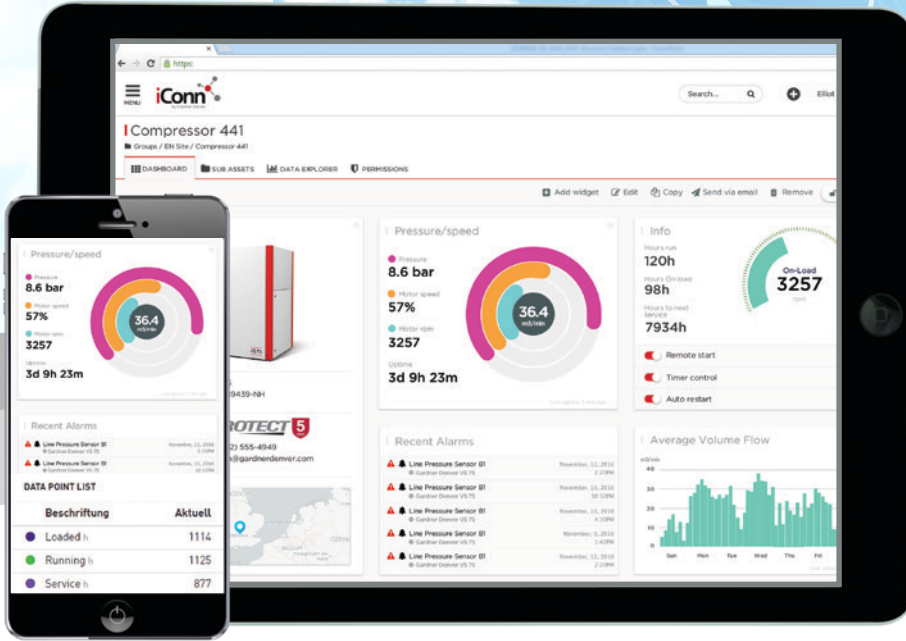
Increased Uptime

Optimised Maintenance

Increased Efficiency

Lower Labour and Admin

Smart  
Fact



Watch the video



## iConn – intelligent connection for the future, now!



Gardner Denver’s significant investment in the development of iConn, translates into real benefits for the future of our industries and applications.

- Upgradeable Over The Air i.e to connect extra sensor packs
- Secure Services
- Browser-based, mobile phone optimised, iOS app dashboard displays key operating data
- Performance monitoring, predictive maintenance and energy optimisation services by our experts

With the proactive iConn platform, there are no surprises or unpredicted issues – production will run smoothly and efficiently, with out fail.

Compressed Air analytics with web-based operating dashboard, which also provides a complete service, from predictive maintenance to (optional) real time energy audits, ensuring total peace of mind.

## Secure iConn Data Management



Open to API's, such as SAP, GE, Oracle, Microsoft

actory  
ndustry 4.0



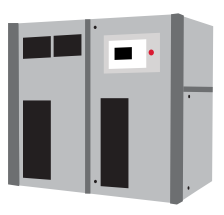
Made  
Smarter

“As an innovative injection moulding company in Austria, we listen to our suppliers for support, when it comes to machine usage and energy optimisation. **GD is the partner that delivers.**”

## iConn - over-the-air-enabled and on-demand enhancements for total peace of mind

### iConn UNIVERSAL

- OEM service for any compressor brand
- True open-analytics for all compressors
- Quick & easy installation



With iConn Universal, non-Gardner Denver components can be monitored in the same way – delivering the same great insights regardless of brand. A richer experience will always be delivered by GD equipment, but iConn is the only true brand agnostic service, developed by an OEM, in the marketplace today.

### iConn HD

- “Plug & play” streaming service
- On-demand bespoke trend analysis & reporting
- Tailored configuration with open APIs



A subscription-based “streaming” service delivering analytics on demand. Over-the-air-enabled, iConn HD can measure costs and efficiencies utilising data information to optimise any application. With full trend analysis and bespoke reporting and information – the service can be configured to give you exactly the information you want, when you want it – ensuring the health and performance of your installation is totally protected.

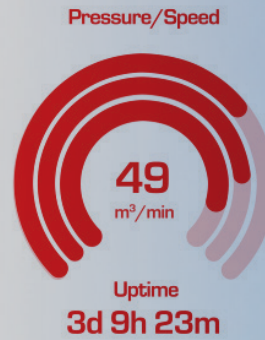
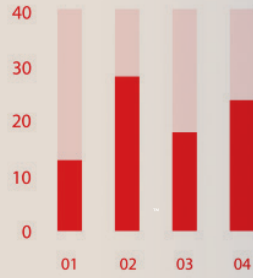
iConn HD, the subscription-based, over-the-air-enabled service for on-demand predictive modelling, also ships with two further options in the form of “Flow” and “Energy” sensors:

#### HD “Flow”

Utilising downstream flow sensors, HD Flow delivers detailed enhancements enabling the monitoring of temperature, pressure and flow across up to five downstream components, including non-Gardner Denver products.

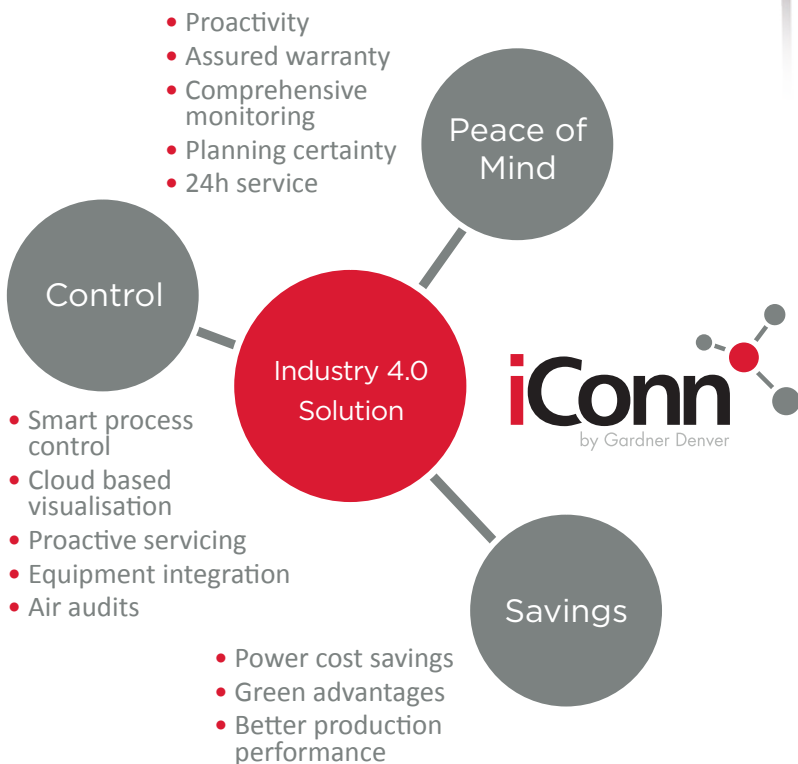
#### HD “Energy”

Plug-and-play sensors bring additional energy usage information online instantly, fed through the main iConn service and enable machine comparisons and consumption modelling across systems and sites.



Increase  
Investment

## Get the best out of your compressed air installation



### iConn delivers

- **Customised Service** and Data Analytics on Mobile Devices
- **Compressor Analytics**, Smart Process Control, Energy
- **Cloud based Visualisation & Data Analytics Platform**; Preventative & Predictive Maintenance Optimisation
- **Built in Global Connectivity** plus Retro-Fit Kit options

“We are in the food production industry in South Africa. We rely on GD to be the first to know if we have problems with our compressors. Their new **compressor analytics tools** make that possible.”

Increased productivity

Investment protection

Increased uptime

Digitisation

Increased efficiency

Digital

Air quality as a service

Integrated analytics

Extended product life-cycle

Reduced risks



## Case study

### Deutsche Fertighaus Holding AG

Deutsche Fertighause Holding AG, a market leader in Germany's prefabricated housing construction industry, used the iConn smart flow management tool to optimise energy use and preventative maintenance processes at their Simmern production plant.

DFH use Compair L-Series screw compressors to supply joinery machines, which engineers had to walk across large production halls to inspect. This is no longer the case – following the installation of iConn, the cloud-based platform gathers and records compressor plant data and makes it available in real-time from a computer or mobile device.

Irregularities, maintenance information, and even information on a stoppage are reported automatically to the user by iConn. It also lets DFH carry out proactive maintenance planning through an 'early warning system' for mechanical issues, and allows for easier remote energy auditing and remote monitoring.



“iConn has helped us achieve measurable success monitoring and optimising energy consumption. It is **easy to operate**, and saves us time visiting installations - **we are simply better informed.**”

#### **Sven Michels**

Mechanical Maintenance Foreman  
DFH Haus GmbH.



## Global Expertise

The GD rotary screw compressor range from 2.2 – 500 kW, available in both variable and fixed speed compression technologies, are designed to meet the highest requirements which the modern work environment and machine operators place on them.



The oil-free EnviroAire range from 15 – 315 kW provides high quality and energy efficient compressed air for use in a wide range of applications. The totally oil-free design eliminates the issue of contaminated air, reducing the risk and associated cost of product spoilage and rework.



A modern production system and process demands increasing levels of air quality. Our complete **Air Treatment Range** ensures the highest product quality and efficient operation.



Compressor systems are typically comprised of multiple compressors delivering air to a common header. The combined capacity of these machines is generally greater than the maximum site demand. To ensure the system is operated to the highest levels of efficiency, the **GD Connect** air management system is essential.



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For additional information please contact Gardner Denver or your local representative.  
 Specifications subject to change without notice.

