

QUANTIMA DRIVES THE ENVIRONMENTAL REVOLUTION

CompAir Showcases Energy-Efficiency Quantima Compressor
Technology at Hannover Fair 2009

CompAir Drücklufttechnik

Hannover Fair – Hall 26, VDMA Stand B14 40 + 42

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At this year's Hannover Fair in Germany, compressor manufacturer CompAir, together with the Verband Deutscher Maschinen-und Anlagenbau (VDMA), the German Engineering Federation is showcasing the highly-efficient Quantima compressor, which can offer energy savings of up to 25%.

The machine will be on display on the VDMA stand B14 40 + 42 in Hall 26 in an area of the exhibition dedicated to energy efficiency in industrial processes. CompAir's technical experts will be on hand throughout the show to advise on the different options available to businesses keen to improve environmental performance and increase production efficiencies.

Since its launch a year ago, customers from a range of industry sectors have been taking advantage of the machine's unique Q-drive, oil-free technology to help reduce their carbon footprint and cost of ownership whilst benefitting from world-class reliability.

Included in the list of European organisations benefitting from Quantima's innovative design is a leading automotive manufacturer. As well as requiring high-quality air for the paint shop, the company has found that it is more efficient to use oil-free air in two pressure stages for the whole factory. According to test results from an independent auditor, the Quantima unit, which replaces two older piston compressors has shown that the ratio of low energy consumption to high air output exceeds the original expectations.

In addition, at Continental AG's factory in Regensburg, a Quantima compressor has expanded air capacity to ensure maximum productivity, with high energy efficiency.

At Australia's largest milk processor, after only five months of installing Quantima, the company was on track to save 90,000 Euros in annual energy and maintenance costs and reduce CO₂ by more than 1,908 tonnes over 12 months.

Elsewhere in the dairy industry, Hochwald Nahrungsmittelwerke GmbH Dairy Cooperative in Germany has installed a Quantima unit. The company is now assured of completely oil-free air to meet stringent international food quality standards with a compressor that has a 50% smaller footprint than other units on the market. After several months of operation, the compressor has fulfilled all of the company's energy saving requirements.

About Quantima

CompAir's revolutionary Quantima compressor is fundamentally different to any other oil-free technology on the market. It offers outstanding efficiencies and premium reliability with significantly low environmental impact and cost of ownership.

What makes this difference possible is what makes Quantima such a major breakthrough in compressor technology - its innovative, Q-drive, centrifugal compression assembly.

This high-speed motor incorporating direct-driven compression impellers operates with the rotor levitated by active electromagnetic bearings and spinning at up to 60,000 revolutions per minute.

Unlike conventional compressors therefore, Quantima's Q-drive assembly has only one moving part, the rotor shaft, which has no contact and no wear. In addition, Quantima's induction motor design and high frequency inverter mean that no gearbox is required and that the compressor can operate without any oil lubrication.

This results in a package that consumes far less power and which is approximately half the weight and physical size of equivalent compressors, meaning that it can be sited easily into existing plant rooms.

Other 300 kW compressors have noise levels typically around 74 dB (A) and above, whereas Quantima is housed in a modular acoustic canopy, resulting in low noise levels at just 69 db

(A). This allows the compressor to be installed at the point of use and not in a separate building and enables operators to work comfortably without any ear protection.

Quantima was purpose-designed to be easy to operate and simple to install, helping to improve production uptime and efficiencies. The intelligent Q-master controller features a touch screen panel with intuitive navigation and menu structure for the user and also monitors all compressor parameters automatically.

In addition, Quantima incorporates remote monitoring technology as standard. This enables CompAir to offer every customer its Q-life predictive maintenance system, which monitors all operating parameters remotely, ensuring high performance and reliability, 24 hours a day, every day of the year.

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