



Quantima makes air compression pure and simple
CompAir exhibits energy-efficient compressor
technology at Drinktec 2009

CompAir Drücklufttechnik
Drinktec 2009, Hall B3, Stand Number B446
14-19 September, New Munich Trade Fair Centre

At this year's Drinktec exhibition in Germany, CompAir is exhibiting the oil-free Quantima compressor, which can offer energy savings of up to 25% and ensure total air purity for critical beverage processing applications.

Visitors to stand number B446 in hall B3 will also be able to learn more about CompAir's well-proven DH range of oil-free compressors.

Quantima operates without any oil, to guarantee consistently pure air. This makes the machine ideally suited for applications where the compressed air may come in to direct contact with the product being manufactured, helping to reduce the risk of batch contamination and rework.

In addition, because the air generated is inherently oil-free, operators can reduce the cost of operating and maintaining air treatment equipment downstream, without compromising production integrity.

Since its launch over a year ago, customers have been taking advantage of Quantima's Q-drive technology to help reduce their carbon footprint and cost of ownership.

Included in the list of food and beverage manufacturers benefitting from Quantima's innovative design is Murray Goulburn, Australia's largest milk processor. The company is now using 35% less power to generate a higher air output, helping to limit annual energy costs and has reduced CO₂ by more than 1,908 tonnes over 12 months.

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In addition, 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 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.

CompAir's DH range of rotary-screw machines uses water injected in to the compression element to provide lubrication, sealing and cooling. This completely removes the need for lubricating oil in the compressor to ensure high air quality and reduced maintenance.

About Quantima

Quantima features a centrifugal compression assembly called Q-drive. 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 very 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.

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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 exceptional reliability, 24 hours a day, every day of the year.

For further information about CompAir's Quantima compressor on display at this year's Hannover Fair, please contact CompAir at stand B446, hall B3 or visit the Quantima website, www.quantima.com

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