

## Quantima Compressor cuts CO<sub>2</sub> emissions by almost 2,000 tonnes

Redditch, United Kingdom, 10<sup>th</sup> March 2008. Compressed air is an essential utility in many processes and manufacturing operations, but generating the high volumes of air required can have a significant environmental impact.

With the launch of the Quantima oil-free air compressor, CompAir has readdressed the environmental burden of air compression to introduce significant energy savings and a reduction of almost 2,000 tonnes in carbon dioxide emissions\*.

### High energy-efficiency

CompAir has engineered numerous power-saving technologies into its new compressor design so that each Quantima unit has a very low environmental impact.

First, as a result of its advanced dynamic technology, Quantima's Q-drive compression assembly has only one moving part, with no friction contact that can result in energy losses. When compared to standard compressor technologies with wearing parts therefore, Quantima has no degradation in performance over the life of the compressor, contributing to total energy savings of up to 25%.

In addition, all Quantima units have a variable-speed drive as standard that matches compressor flow to plant demand with great efficiency. This technology means that the compressor uses precisely the energy required by the process at any given time for reduced electricity consumption.

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### **Lower carbon loading**

These features combine to make the new unit an attractive proposition for operators keen to improve their environmental credentials, with the potential to cut CO<sub>2</sub> emissions by up to 2,000 tonnes\* by consuming less electricity. Reducing power consumption also translates directly into significant cost savings for the operator, including lower production costs and improved plant profitability.

The optional Quantima energy recovery kit adds an additional saving by recycling up to 75% of the wasted heat from the compression process, which can be used to power other factory process such as the hot water supply.

### **Environmentally-friendly design**

Quantima has fewer components, most noticeably, the absence of a gearbox which has removed the need for oil lubrication completely. Unlike conventional compressors where users are required to dispose of oil and oil-laden parts appropriately and responsibly, there is absolutely no oil in a Quantima compressor, removing this burden and the associated expense completely.

Other compressors can incorporate numerous components that are energy-intensive to make and transport. In comparison, Quantima has a very simple construction, with no gears, fewer bearings and seals and no oil system. At only 2.5 tonnes, the entire Quantima system comes in a much lighter and smaller package than conventional compressors.

With Quantima, CompAir and has paid particular attention to the cost and impact of disposal with a compressor that is designed for easier maintenance with fewer consumable parts.

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### **Responsible Installation**

At just 69 db(A), the package not only helps to reduce noise pollution, but can also be sited at the point of use. This means that users can install the compressor in the workplace and do not need additional infrastructure to house the unit.

\*Carbon emissions figures published equate to a calculation based on a user achieving energy savings of 10% on a 300 kW machine over a ten-year period.

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