

Quantima offers low cost of ownership with measurable return on investment

Redditch, United Kingdom, 10th March 2008. CompAir's innovative Quantima compressor offers a low total cost of ownership and delivers a range of tangible benefits for operators keen to lower production costs and improve plant profitability.

High energy-efficiency

Energy costs account for more than 80% of a compressor's total cost of ownership over its lifetime, so CompAir has engineered numerous power-saving technologies into its new Quantima compressor design to deliver a measurable return on investment.

These include the lowest off-load power consumption of any compressor on the market, no contact losses and no performance degradation over the lifetime of the unit - features which combine to provide energy savings of up to 25%. It is estimated that a customer replacing an existing compressor with a new, 300 kW Quantima unit and making energy reductions of only 20% would save €480,000 over a 10-year operating cycle*.

No compromise on performance

At the heart of Quantima is the Q-drive compression assembly featuring active, electromagnetic bearings, meaning that the entire assembly has just one moving part, spinning in a magnetic field.

Put more simply, Quantima is special for what it doesn't have. In contrast to conventional compressors, Q-drive is different and has no gearbox, no oil, no contact and no wear.

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This simple construction means that there is no performance degradation over the life of the compressor, unlike other standard technologies where degradation of coatings and friction between multiple moving parts can compromise efficiency and lead to a reduction in airflow

Lowest off-load power consumption

All Quantima compressors include a variable speed drive as standard to minimise off-load running and to ensure highly efficient operation at all times. The variable-speed drive matches air output automatically to plant requirements, meaning that precisely the right amount of air is being produced at any one time.

However, even when a Quantima does need to run off-load, it still provides very low power consumption, at just 2.5% or 7 kW for a 300 kW compressor, helping operators to limit energy use when the process does not require compressed air.

In comparison, conventional technologies can consume vast amounts of electricity while the compressor is idling in off-load mode, significantly increasing the unit's running costs.

Sophisticated compressor controls

Quantima incorporates an innovative touch screen control panel, offering intuitive, menu-guided operation that requires minimal user training. Operators can see, at a glance how the compressor is performing, with key parameters logged and trended to provide easy access to information. In addition, each unit includes the CompAir Q-life service offering, a remote monitoring system that tracks the unit's performance to predict when components require servicing to ensure optimal performance.

*Calculation based on achieving a 20% energy reduction on a 300 kW compressor operating for 8,000 hours a year at €0.10/KwH for ten years.

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