

CASE STUDY

FOOD & BEVERAGE



Heineken lowers lifecycle costs with oil-free compressor

The Sopron Brewery is a member of the Heineken Group with a history of producing quality, premium beers that dates back to 1895. As Europe's largest brewery, Heineken must monitor its sites' environmental performance closely and has set all of its 115 breweries the goal of reducing energy consumption by 15 percent by the year 2010.

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Application Details

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Overview

- ▶ **Client**
Brau Union Hungária Sörgyárak Nyrt.
(Sopron Brewery)
- ▶ **Location**
Sopron, Hungary
- ▶ **Application**
Beer brewing
- ▶ **Products**
D37H and a D75H SR oil-less air compressor
- ▶ **Customer Benefits**
Lower lifecycle costs/guaranteed clean air

Reducing Lifecycle Costs

The brewery was using a variety of makes of compressors, some of which needed replacing before integrating the units into a single station monitored by one master controller. Local CompAir distributor, Imex Szerviztechnika recommended the D37H fixed-speed, oil-less compressor and the Smart Air system to control the new station, with a separate D75H SR variable-speed, 10-bar unit for the packaging area.

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Benefits at a glance

- ▶ Energy-efficient switched reluctance technology - proven to be 3% more energy efficient than other variable speed drives
- ▶ Guaranteed clean, oil-less air supply - avoids the time and expense of product rework or recall
- ▶ Separate D75H SR compressor operates at 10 bar - provides the higher pressure required for the packaging station
- ▶ SmartAir controller monitors the compressors continuously - maintaining consistent 8 bar supply across the plant for improved productivity
- ▶ Locally-based service support and planned maintenance - helping to improve compressor life and overall performance and reducing the risk and cost of emergency repairs

The brewery found that this solution was unmatched in its overall cost of ownership, with significant energy savings, guaranteed clean air and reduced maintenance.

Energy Savings

As the master compressor, the D75H SR has the highest running hours and uses switched reluctance technology to adjust the power input to suit the air required. The Smart Air controller monitors air requirements automatically and selects the appropriate combination of compressors, for further energy savings.

Clean Air Supply

Product spoilage comes at a high price, in terms of downtime, rework and damaged reputation and, with compressed air used across the entire plant the brewery must ensure a clean and dry supply. The CompAir oil-less compressors produce 100% oil-free air to eliminate any risk of oil contamination, leaving the Sopron Brewery free to address other important process improvements.

Lower Maintenance Costs

The brewery operates 24 hours a day, six days a week which means that its plant maintenance requirements are high and potentially, very costly. CompAir's local service engineers offer round-the-clock support including all parts and emergency visits to provide a planned approach to scheduled servicing at a pre-determined price.

Given the significant energy savings and reduced maintenance benefits of the existing CompAir units, the client is considering purchasing a third oil-free compressor this year, the D110H SR.



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Balázs Mészáros
Brau Union Hungária, Sörgyárak Nyrt