CompAir

# CASE STUDY
**FOOD & BEVERAGE**

# Coca Cola Icecek takes on oil-free compressor

**As the largest bottler of non-alcoholic beverages in Turkey and operating six facilities across the country, Coca Cola Icecek needs production equipment that it can rely on to do the job and not cost the earth to run.**

The company has recently invested in the very first CompAir DH oil-free machine sold in Turkey. The compressor, installed at its largest bottling plant in Corlu near Istanbul, is being used to deliver high quality and energy efficient compressed air for bottle rinsing on the new PET filling line.

## Overview

### Client
Coca Cola Icecek

### Location
Istanbul, Turkey

### Application
Non-alcoholic drinks' bottle rinsing

### Products
D75H SR and turbo compressor

### Customer Benefits
Energy efficiency optimised/product quality assured

## Application Details

Turkey is the fourth largest market in Europe for products of The Coca-Cola Company and the 13th largest market for Coca-Cola products in the world.* Coca Cola Icecek produces nearly 60% of all bottled carbonated drinks consumed in Turkey.

In a sterile bottling environment the need for clean air is paramount. At the same time, manufacturers also need to think carefully about energy usage. Josef Tari at CompAir's Turkish distributor, Tahas, explains: "With no oil being used in the CompAir D75H SR oil free compressor at all, plus water lubricated bearings, there is no risk of product contamination and no environmental costs associated with oil disposal".

He continues: "Energy costs in Turkey are very high – around US$ 0,10 per kWh. The CompAir D75H SR oil-free compressor, with its efficient, switched-reluctance, vari- able-speed motors balances energy input to air demand, ensuring that energy isn't wasted and reducing running costs. Its numerous benefits made it the ideal compressed air solution to meet Coca Cola Icecek's needs."

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## Benefits at a glance

- Energy-efficient switched reluctance technology - proven to be 3% more efficient that other variable-speed drives
- 100% oil-free air - no risk of product contamination, safeguarding profitability and brand reputation
- Turbo compressor works alongside variable-speed unit - balancing differing air demands across shift patterns, for optimum energy savings
- Constant air supply at the correct pressure - ensures maximum productivity
- Simple mechanical and electronic design - reducing maintenance downtime and costs
- Locally-based service support and planned maintenance - helps to cut overall cost of ownership and maintain machine performance

The new Cold Aseptic NR PET line (CAF) and the new PET line are using sterile oil free air.

If both production lines are working, a turbo compressor provides the majority of the compressed air with top-up air supplied by the D75H SR. When only the PET line is in operation, just the D75H SR is used, supplying all the air needed.

Selim Mizrahi, Coca Cola Icecek's Engineering Services Manager says: "We take great care selecting our suppliers as maintaining a sterilised environment at all times is of paramount importance. CompAir was our number one choice for the new PET line, as it is the only compressor manufacturer to produce 100% oil free machines, giving us total peace of mind as to the compressor's suitability for the job.

The Corlu plant alone can produce 50 million physical cases of soft drinks every year which means our compressors need to work hard with minimal down time to ensure optimum production. Therefore reliability and energy efficiency are also key considerations.

As with most beverage processing plants, we have variable shift patterns that result in inconsistent demand for compressed air. To ensure efficient compressed air operation, we chose a variable-speed compressor from CompAir to work alongside the fixed speed turbo compressor, to achieve optimum energy and operational cost savings."

*as of December 2005.

> "The CompAir compressor has been in situ for several months now, and we are completely satisfied with its performance"

**Selim Mizrahi**
**Engineering Services Manager, Coca Cola Icecak**

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