

## CASE STUDY Pharmaceutical



# Blackmores turns to CompAir to help maximize efficiency and cost savings!

When ageing equipment began to impact production and energy usage, Blackmores relied on CompAir to provide an innovative variable speed, oil-free solution that would help them maximize reliability and efficiency, without compromising production, quality, or hygiene.

As a world class manufacturer of natural health products, Blackmores combines over 85 years of scientific expertise with a wealth of knowledge of nature to develop a range of high-quality products. Using the highest quality products, sourced from all over the world, the company manufactures a range of vitamins and minerals, as well as herbal and nutritional supplements, which are consumed by millions of people in markets across Australia and Asia.

Blackmores is committed to the health, well-being, and safety of its customers, which is why all of its products are manufactured to the strictest quality standards, and are subject to a

range of rigorous quality and safety checks. Each of the company's world class facilities uses a host of efficient, reliable, and environmentally friendly equipment to ensure that production and hygiene targets are met.

### Capacity Expansion

To expand its growth and capability Blackmores Group had recently acquired a new manufacturing facility at Braeside, Victoria. Located in Melbourne's South East, the factory provides a large proportion of the company's production output and makes a sizeable contribution to the company's research and development capabilities.

### Overview

#### ▶ Customer

Blackmores

#### ▶ Location

Victoria, Australia

#### ▶ Application

Pharmaceutical

#### ▶ Product

CompAir ULTIMA U132 oil-free variable speed screw compressor and CDT340 hybrid dryer

#### ▶ Customer benefit

- Provide clean and pure air required for plant processes and meet the increase in air demand
- Reduce energy consumption and cost

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Compressed air is consumed at Blackmore's manufacturing plant for a large range of processes, from control of manufacturing equipment, mixing and spray coating product, driving packaging machines, to generation of high purity nitrogen. The factory's pneumatic system plays a key to not only production, but also maintaining the clean and safe environment required to produce premium pharmaceutical products.

Following the acquisition, the company invested in a significant capacity expansion project, supporting its plans for future growth. Key to the success of this project was the installation of a new oil-free air compressor and dryer package that would meet a planned increase in air demand of up to 10 m<sup>3</sup>/min.

Air quality, reliability, and efficiency were also key considerations for the company. With compressed air playing such a crucial role in the facility, Blackmores required equipment that would ensure clean air, and reliable operation, with as little impact to the plants energy costs as possible.

That is why the customer turned to CompAir to provide a solution that would help the plant meet its planned production targets, while reducing energy costs.

### Turning to the Experts

CompAir supplied the company with an Ultima U132 oil-free variable speed screw compressor, as well as a CDT340 hybrid dryer.

CompAir's Ultima compressors are 100% oil and silicone-free, meeting ISO 8573-1 Class Zero (2010) standards; making them the ideal choice for clean air critical applications in the pharmaceutical and food and beverage industries.

The Ultima series features a unique and groundbreaking design that utilizes both high and low pressure screw airends. Each airend is individually driven by a variable speed, permanent magnet synchronous motor, and utilizes an intelligent, "digital gearbox" that continually monitors and adjust the speed based on need. This innovative design allows the Ultima to minimize running costs by providing the highest levels of efficiency across the flow range.

Featuring two-stage drying technology, CompAir's CDT dryers further maximize efficiency, without compromising air quality. Using a combination of refrigerant and absorption technology, the CDT range provides less purge-air consumption, constant and stable outlet pressure dew points, and lower operating and maintenance costs.

**PureCARE**  
PUREAIR SERVICING & MAINTENANCE PROGRAMME

**iConn**

CompAir's Ultima compressors also come equipped with **iConn** next generation equipment monitoring technology, as well as CompAir's **PureCare** preventative maintenance plan. With **iConn**, compressed air users have access to comprehensive, real-time machine data at their fingertips, allowing them to precisely plan production and maintenance. Combined with **PureCare**, **iConn** is the ideal way to optimize both service and machine efficiency, and protect your investment.

### New Equipment Provides Instant Benefits

By choosing CompAir, the customer has drawn on over 200 years of innovation and engineering excellence, to receive a highly reliable and efficient package that is tailored to meet their specific process needs. Having been installed and commissioned, the upgraded compressor and dryer package has already begun to pay dividends for the plant.

Crucially, the Ultima's 100% oil and silicone-free operation provides the plant with the clean and pure air required by plant processes. The compressor's unrivalled power to weight ratio delivers the performance required to meet the planned increase in demand, being capable of providing a maximum flow 20 m<sup>3</sup>/min.

Additionally, the Ultima's innovative, high-efficiency design, combined with the hybrid dryer's energy saving dual drying technology, has helped the plant to reduce energy consumption and cost. Equipped with **iConn**, and backed by **PureCare**, Blackmores will also continue to benefit from reduced maintenance and service costs, while having total peace of mind.