

Press Release: Rand-Air's ZD2100 Delivers 100% High-Pressure Oil-Free Air

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Local plant-hire and equipment rental company, Rand-Air, and its Swedish parent company, Atlas Copco, have always been pioneers in finding new solutions. By analysing the needs of various industries and exploring the appropriate technologies, the company continuously expands its offerings, in order to meet the most challenging needs of the market and industry.

For several applications, high-pressure oil-free air is a must – and that is exactly what the new four-stage ZD2100 VSD can deliver. It is a 100% oil-free high-pressure air compressor, and is the ideal solution for all industries requiring oil-free air between 25 and 45 bar.

This is according to Nkululeko Shange, Oil-Free Air Specialist at Rand-Air.

“The concept underpinning the ZD2100 VSD, is that of combining the forces of two compressors. This results in a device where the whole is more than the sum of its parts,” Nkululeko maintains.

He explains further: “Two 20-foot containers hold the elements of a highly reliable, high-quality, environmentally- friendly solution for the high-pressure needs of various industries. The first container houses a two-stage Atlas Copco oil-free screw compressor with variable speed drive and an integrated MD dryer.

The second one includes a two-stage Atlas Copco oil-free piston compressor with variable speed drive, called the DNS 160 VSD booster. The set-up integrates 10- and 45-bar receivers, a closed cooling water system that is perfectly suited to rental projects. Both containerised units are designed to work independently to fulfil specified customer demands. The ZD2100 is easily handled, and can be adjusted to a variety of applications.”

Atlas Copco's oil-free screw and piston compressor technology guarantees 100% dry, clean air and is the result of forty years of experience. Thirty years of experience are behind the integrated MD dryer, which delivers air with a pressure dew point of 3°C at 40 bar. Integrated dust filters remove particles from 0.1 micron up, resulting in ISO 8573-1 class 1 clean air at the outlet of the ZD package.

The ZD2100 combination is highly flexible. A variable speed drive allows for a compressor capacity with a wide operating range: from 55 to 100% of its maximum capacity. The desired outlet pressure remains stable with only 0.2 bar fluctuations.

“Applications where the ZD2100 can be very useful include the testing of pressure vessels, as a power supply for robotics in the automotive industry; for catalyst regeneration in the petrochemical industry; for blowing metal cans; for the production of electronics; for testing aeronautical components, and for the de-watering and drying of pipelines,” continues Nkululeko.

He points out that the benefits of these applications are substantial.

First of all, this package gives high-quality dry compressed air, 100% oil-free. On top of that, it's a very adaptable set-up: both containers can be used in combination or separately. The two modules can operate at different levels: module 1 with 7-10 bar (e) outlet and module 2 with 25-45 bar. The installation of the package is very easy, and requires only a flat floor where the two containers can be installed, a power supply and air hose connection for both containers. Moreover, there is no current peak during start-up, so necessary power supply is limited to the nominal power of the package.

Our designers are furthermore focused on decreasing the noise pollution. The compression elements are designed for low noise with double-sided casings, silencers, baffles and a concrete base plate for the D-compressor and container enclosure.

All in all, the ZD2100 is an environmentally-friendly solution with low energy consumption, meaning an overall lower total cost-of-ownership, and enhanced return-on-investment for our customers,” Nkululeko concludes.

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(604 words)

Notes to Editors

About Rand-Air

Rand-Air, a South African plant-hire and equipment rental company of the Atlas Copco Group, fields more than 800 compressors and generators, delivered to the point of need. Over 100 people are employed to staff an infrastructure of branches throughout Southern Africa. Rand-Air's fleet is renewed annually, ensuring that it keeps pace with the latest technologies. Rand-

Air also provides for round-the-clock service and backup to all the company's clients.

About Atlas Copco

Atlas Copco is a world-leading provider of industrial productivity solutions. The products and services range from compressed air and gas equipment, generators, construction and mining equipment, industrial tools and assembly systems to related aftermarket and rental. In close cooperation with customers and business partners, and with more than 130 years experience, Atlas Copco innovates for superior productivity. Headquartered in Stockholm, Sweden, the group's global reach spans more than 150 markets.

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