

## Press Release from the Industrial Air Division

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### One is better than two with Atlas Copco UD+ single filter technology

**Atlas Copco Compressor Technique's patent-pending UD+ compressed air single cartridge in-line filter solution gives a 40% lower pressure drop and removes contamination in compressed air down to 0.01 ppm.**

In-line filters are commonly used in industrial applications to decontaminate compressed air lines by removing concentrations of water, dust and oil (in the case of oil injected compressors) generally found in compressed air. “The UD+ single filter replaces the two-filter solution currently used by over 50% of oil-injected compressor applications to achieve suitable quality compressed air,” states Atlas Copco Compressor Technique's Industrial Air Business Line Manager Charl Ackerman.

Explaining the two-filter solution, Ackerman says that the Atlas Copco general-purpose coalescing DD filter removes liquid water and oil aerosols from the air down to 0.1 mg/m<sup>3</sup> (0.1 ppm) and particles down to 1.0 µm. “To remove aerosols larger than 0.01 mg/m<sup>3</sup> (0.01 ppm) and particles down to 0.01 µm, the air must be passed through Atlas Copco's high-efficiency coalescing PD filter. However, while the traditional one or two layers of dense filter media efficiently remove debris, they tend to clog easily, particularly during the removal of wet contaminants.”

To minimise the energy loss normally associated with compressed air filtration, the design of the UD+ single filter combines maximum contaminant removal efficiency with minimum pressure drop. The UD+ filter owes its success to its innovative design which incorporates Nautilus shell technology that is based on spiral pathways through which the air moves; the filter media is wrapped around itself which makes for a significantly larger filtration area while being less densely packed due to the use of more open, glass fibre media.

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This filtration concept ensures that the filter clogs more slowly, reducing the pressure drop while retaining filtration efficiency. Ackerman points out that this combination technology solution developed by Atlas Copco was achieved without increasing the size of filter housings.

The UD+ advanced filter technology is available at 20% less than the cost of the two-filter system and delivers a 40% lower pressure drop, removes contamination in compressed air down to 0.01 ppm, reduces maintenance costs and offers numerous environmental advantages. “Atlas Copco’s 2-in-1 nautilus concept is the ideal universal filtration solution for any reticulation line, setting a new benchmark in filtration standards for compressed air lines,” concludes Ackerman.

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*Atlas Copco is a world-leading provider of sustainable productivity solutions. The Group serves customers with innovative compressors, vacuum solutions and air treatment systems, construction and mining equipment, power tools and assembly systems. Atlas Copco develops products and services focused on productivity, energy efficiency, safety and ergonomics. The company was founded in 1873, is based in Stockholm, Sweden, and has a global reach spanning more than 180 countries. In 2016, Atlas Copco had revenues of BSEK 101 (BEUR 11) and about 45 000 employees.*

*Learn more at [www.atlascopco.co.za](http://www.atlascopco.co.za).*

*Atlas Copco’s Compressor Technique business area provides industrial compressors, vacuum solutions, gas and process compressors and expanders, air and gas treatment equipment and air management systems. The business area has a global service network and innovates for sustainable productivity in the manufacturing, oil and gas, and process industries. Principal product development and manufacturing units are located in Belgium, Germany, the United States, China and India.*