

Waste Water Treatment



Rental product solutions offered by Atlas Copco Specialty Rental



Oil-free Air Specialty Rental

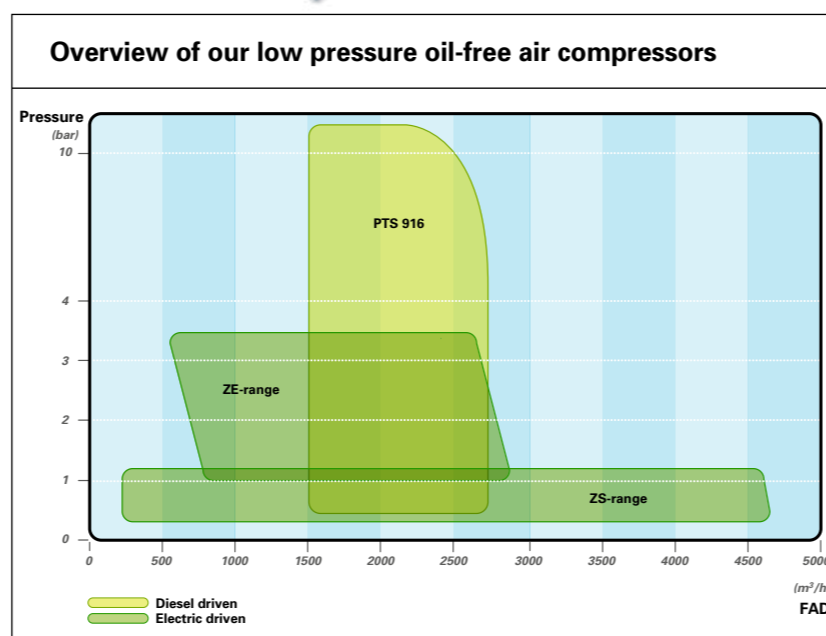


Treating waste water is a growing concern all around the world. It meets an environmental necessity. The purpose of removing pollutants from the water that is used in industrial, commercial, or domestic activities is to avoid entry into the natural water cycle of elements that pose risk to the environment or human health. The treatment consists of different stages involving physical, biological and chemical processes. Aerating the water with compressed air is an important step; it provides the necessary oxygen for the microorganisms that break down the pollutants.

The wastewater purification process depends upon the introduction of a precise amount of oxygen into the solution at a precise pressure and volume. This is typically done with compressors delivering a pressure around 1 bar(g). Using an Atlas Copco compressor to compress the oxygen and administer it at a specific pressure and flow volume, will ensure that the process has the desired result.



ZS75⁺ VSD



Tough Standards
The Specialty Rental Division has been granted triple certification to ISO 9001:2000, ISO 14001:2004 and OHSAS 18001 for Quality, Environmental and Occupational Health & Safety Management by Lloyd's Register Quality Assurance (LRQA). This triple certification demonstrates our commitment to the quality of our services, our care for the environmental impact of our operations and the health of our employees and customers.



Low pressure compressed air applications 100 % Oil-free rental air compressors

www.atlascopco.com/rental

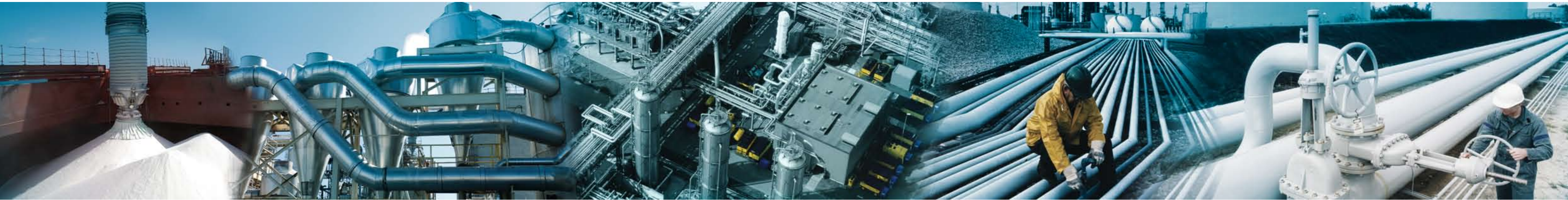
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Reliable **low pressure systems**

A diverse range of applications for **low pressure air compressors**

Fleet size matters



Low pressure air is vital in many industrial processes. In most of the applications, product contamination, disturbing pulsations or performance degradation can be detrimental to a profitable and efficient operation.

Whatever the application, overall production reliability is your key concern. Atlas Copco Specialty Rental's preoccupation is to meet your needs for maximal production. Therefore we vary our rental solutions to measure the application and the air quality requirements.

In all our rental operations we follow the highest standards of quality and commit ourselves to absolute customer satisfaction. The compressors in our low pressure range can provide a wide variety of pressure and flow specifications. They are manufactured by Atlas Copco, which has earned a worldwide reputation for dependable performance and minimum maintenance. These 100% oil-free air compressors set a new standard in the very specific and demanding low pressure market.



The TÜV found no traces of oil in the output air stream. Atlas Copco has thereby become the first compressor manufacturer to receive certification for a new industry standard of air purity: ISO 8573-1 CLASS 0

Pneumatic Conveying

Low pressure compressors are typically used for the pneumatic transport of bulk goods. In many industries there is an added essential requirement for oil-free, clean, dry air for reasons of product safety, and health. Atlas Copco Specialty Rental answers to these concerns by meeting the highest demands for air quality.

- *In the food industry:* Pushing foodstuffs, such as powdered milk or cocoa powder, along pipes is a typical low pressure application using up to 4 bar(g). It's essential that this air be pure and oil-free.

- *In the cement industry:* In the process of pumping cement powder from ships and trucks into silo's dry air is an absolute must to avoid clogging of the powder.

- *In the petrochemical industry:* Compressed air is used for pneumatic transport of materials such as PVC, PTA and DMT chips. Oil contamination will cause quality defects and pipe clogging, as well as a fire hazard. For these type of applications always rely on oil-free, dry compressed air.

Drying of pipelines

Atlas Copco Specialty Rental offers an innovative approach to pipe dehydration that is convenient to use, and environmentally friendly. The system consists of one or more air compressors with specialized air-drying equipment capable of achieving a dew point of -40°C to -70°C. Environmentally friendly, the compressors do their job with no spills or contamination.

Desulphurization

Desulphurization or sweetening is the stage in the oil refining process of removing sulphur from crude oil. Sulphur contributes to air pollution in many ways. It produces sulphur dioxide (SO₂) which is the major pollutant involved in acid rain, and an important component in the formation of fine particulate matter (PM). In addition, sulphur also reduces the effectiveness of catalytic converters.

Desulphurization uses a technique called hydrotreating. A limited quantity of air is added to the oil and specialized aerobic bacteria will oxidize the sulphur and replace them with hydrogen. Because fuels with high sulphur content are difficult to refine they require this specialized treatment.

Low Pressure Diesel and Electric Driven Rental Compressors			
MODEL NO.	ZE4 VSD	ZS75 ⁺ VSD	PTS 916
Pressure Range (in bar (g))	0,5 - 3,5	0,3 - 1,2	0,5 - 10,3
Max. Capacity (m ³ /h)	3.078	2.289	2.742
Air Outlet	PN16 DN125 5"	PN10 DN 150 6"	PN16 DN80 3"
Power Consumption (in kW)	46 - 236 kW	13 - 86 kW	/
Fuel Consumption (l/h)	/	/	81
Noise Level dB(A)	75 - 77	69 - 73,6	74 - 102
Dimension (LxWxH) (m)	3,6 x 1,8 x 2,2	2,3 x 1,1 x 2	5,2 x 2,2 x 2,4
Weight (kg)	7.500	1.850	7.120



ZE4 VSD



ZS75⁺ VSD



PTS 916