

Oil-free compressed air solutions for perfect air purity

100% oil-free air, 0% contamination risk

Air compressors manufacturers have come a long way to ensure that the air used in critical applications is as pure as possible. Oil contamination, even by the smallest quantities of oil, could result in process contamination. The consequence? Operations slowing down, or stopping altogether, higher defect ratios, more need for maintenance, in short: loss of productivity. That is why all production managers in critical applications industries prefer **ISO 8573-1 Class Zero oil-free compressors** that provide clean, 100 percent oil-free air. Atlas Copco is, since 2010, the world's first compressor manufacturer to receive certification according to the latest edition of the **industry standard of air purity** (TÜV): ISO 8573-1 CLASS 0.

100% offshore proof

When operating in open waters, we should not underestimate the role of oil-free. The importance goes for both environmental aspects and business productivity. Using pure air minimizes leaks and energy waste, and eliminates condensate treatment. Condensate from oil flooded equipment will always contain a significant amount of oil and hence cannot be discarded without water-oil separation treatment. Oil-free technology is equally vital to reduce maintenance interventions; no oil filters on board, therefore no filter replacements which could impact the availability of equipment during precious operating hours.



100% oil-free vs. technical oil-free

Compressors with oil removal filters deliver a solution that is often referred to as "technically oil-free air". However, to achieve even barely acceptable air quality with oil-injected compressors, it is necessary to have air cooling devices and several stages of oil removal with multiple expensive components. Only 100% oil-free air compressors will be able to deliver air with Class zero purity and can limit all risks of contamination and possible dangers for the business.



Oil-free compressed air for bubble curtains in the North Sea. Bubble curtains protect marine life against noise and vibrations during the build-up of wind turbines. 13 compressors type PTS 1600 delivered 100% oil-free air for this specific project.

Oil-free bubble curtains protecting marine life

For certain applications, pure oil-free air is not only beneficial for technical reasons but it can be vital when the air is in direct contact with the environment. An example is the creation of an underwater bubble curtains for sound mitigation during the construction of wind farms at sea. Impact to the marine life has to be mitigated according to European legislation. As the sound released during construction of offshore wind foundations is five times higher underwater than in open air, Sea mammals experience nuisance that can result in deafness or disorientation. One of the approved measures recognized by European regulators is an underwater bubble curtain

Atlas Copco Rental for total solutions

At Atlas Copco Rental, we create total solutions for any temporary air, power, steam and nitrogen application. With over 50 years of experience in offshore energy, we know our ropes. Oil-free compressed air is what Atlas Copco does best and this is reflected in our fleet. Our oil-free compressors come in all shapes and sizes.

We do not just provide a machine: we think along with you and offer flexible, fast and efficient solutions. Our project engineers make sure you receive a made-to measure solution and our dedicated service technicians are all trained and certified to work in even the most hazardous environments. Whatever stage your project is in, we have a temporary solution to match.

Got a project coming up? We'll handle it.

Atlas Copco

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