

## How to Get Clean, Dry, Oil-free Compressed Air From Any Compressor



### Ambient Air and Compressed Air Quality

Compressed air is vital to any manufacturing process. Many companies, including those in the food and beverage, pharmaceutical, cosmetics, manufacturing and electronics industries, recognize the negative effects on quality created by oil contact with their product during production.



An often overlooked source of oil in compressed air — ambient air — is frequently misunderstood, underestimated or ignored. Ambient air quality is directly impacted by air pollution caused by industrial processes such as burning fossil fuels and emissions from vehicle exhaust, oil and gas fields, paints, and solvents. To make matters worse, compression of ambient air can significantly increase the volume of oil. The greater the operating pressure, the higher the potential level of oil in the compressed air. This is compounded by the flow rate and time of operation.

Once inside the compressed air system, oil vapor will cool and condense, mixing with water in the air. This contamination causes numerous problems to the compressed air storage and distribution system, production equipment and final product, which leads to:

- Efficient production processes
- Spoiled, damaged or reworked products
- Reduced production efficiency
- Increased manufacturing costs

Due to the financial and commercial impact of a contaminated product, many companies specify the use of an oil-free compressor, in the mistaken belief that this will deliver oil-free compressed air to critical applications.



*Download the How to Get Clean, Dry, Oil-free Compressed Air From Any Compressor White Paper. Mark White, Compressed Air Treatment Applications Manager at Parker Hannifin, explains the differences between oil lubricated and oil-free compressor technologies, the contamination risks associated with each, and how to mitigate those risks by installing the correct purification equipment required to deliver clean, dry, "Technically Oil-free Compressed Air".*



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## Advanced Solutions | OFAS Oil Free Air System

Parker has recently introduced a new compressed air purification system. The **OFAS Oil Free Air System** is a fully integrated heatless compressed air dryer and filtration package suitable for use with any compressor type and can be installed in the compressor room or at the point of use. Fitted with a third adsorbent column for oil vapor removal, the OFAS has been third-party validated by Lloyds register to provide ISO 8573-1 Class 0, with respect to total oil from both oil-lubricated and oil-free compressors, ensuring the highest quality air at the point of use for critical applications.



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