

Atlas Copco

Did you know removing CO₂ from compressed air can be critical in your process?

Discover how Atlas Copco CO₂ removal units come into play.



Is there CO₂ in compressed air?

During the compression of air with a compressor, neither is CO₂ added nor removed. Hence, compressed air does contain CO₂.

Why do we need to remove CO₂?

For most compressed air applications, CO₂ isn't harmful. However, it has severe consequences on the quality of the end product for a few.

- **Battery:** CO₂ negatively influences the lifetime and quality of chemical raw materials used in lithium battery cells
- **Air Separation:** CO₂ freezes in the cold box of an air separation unit, obstructing the separation of the air gases (Nitrogen, Oxygen, and Argon), causing production losses and downtime
- **Pharmaceutical:** CO₂ contaminates instruments in the laboratory environment rendering them unable to give reliable and constant measurement results
- **Electric vehicles:** The EV battery production also requires dry, non-contaminated compressed air and nitrogen to manufacture Lithium-ion batteries. CO₂ removal units are deployed to remove unwanted traces of CO₂ from the compressed air

How to remove CO₂ from the air?

We offer dedicated CO₂ removal units with a proven design similar to our desiccant air dryers' design. CO₂ removal units are filled with a zeolite specifically designed to remove CO₂ below 10 ppm or 1 ppm. Our CO₂ removal units are qualified for indoor and outdoor use and are made of carbon steel or stainless steel.

Advantages of using Atlas Copco CO₂ removal units

Protect your compressed air systems and processes from CO₂: Purified air protects your processes and increases your end product reliability.

Maintain the quality of your end product: Quality sustains by removing carbon dioxide from compressed air down to 10 ppm or 1 ppm and by removing moisture from compressed air below 0.5 ppm (-70°C/-70°F). Benefit from our proven drying and purification technology: All our compressed air purifiers are designed to perform in the most energy-efficient and ecological way, contributing to a reduced carbon footprint.

Discover our CO₂ removal-related products:



ZR and ZT (VSD) oil-free rotary tooth and screw compressors



DD (+) and PD (+) oil coalescing filters



Desiccant air dryer range



DDp (+) and PDp (+) dry dust filters