DESICCANT AIR DRYERS FOR SUPERIOR PRODUCTIVITY

CD+ series (25-1400 l/s, 53-2968 cfm)
BD+ series (100-3000 l/s, 212-6360 cfm)
XD+ series (550-3600 l/s, 1165-7628 cfm)
Dry and clean compressed air is essential for a broad range of industrial applications. Yet it must be produced reliably, energy-efficiently and cost-effectively. Atlas Copco’s desiccant dryers protect your systems and processes. Their robust design ensures they operate with total reliability and deliver a constant, stable dewpoint in full load conditions and even during a temporary overload.
Protecting your reputation and production

Compressed air entering the air net is always 100% saturated. When it cools, this moisture will condense, causing damage to your air system and finished products. Removing moisture from compressed air with a pressure dewpoint (PDP) as low as -70°C/-100°F, Atlas Copco desiccant dryers eliminate system failures, production downtime and costly repairs.

Highest reliability

- A constant pressure dewpoint down to -70°C/-100°F at 100% load conditions.
- A proven, durable design for the switching valves significantly improves the dryer lifetime.
- An advanced control and monitoring system ensures production efficiency.

Maximum energy efficiency

Atlas Copco’s desiccant dryers incorporate energy-saving features to cut your carbon footprint. A low pressure drop below 0.2 bar/2.9 psi drives down energy costs. Dewpoint sensing and control adapts the energy consumption to the real load of the dryer. An adjustable PDP setpoint enables you to adapt the dryer to your actual needs.

Easy installation and long maintenance intervals

The dryers have a small footprint thanks to an innovative all-in-one design. Delivered ready for use, installation is straightforward, minimizing costly production downtime.

Assuring your peace of mind

All internal components are easily accessible to facilitate maintenance. The use of high-grade desiccant and durable valves extends maintenance intervals beyond the standard three years.
A dry compressed air system is essential to maintain the reliability of production processes and the quality of end products. Untreated air can cause corrosion in pipe work, premature failure of pneumatic equipment, and product spoilage. Atlas Copco’s desiccant dryers protect your systems and processes by producing superior dry compressed air in a reliable and energy-efficient way.

**Electronics**
- High-quality dry compressed air is a must to remove microscopic debris from the surfaces of computer chips and boards.
- Moisture contamination is avoided: no oxidation of micro-terminal strips.
- A continuous flow of dry compressed air at a dewpoint as low as -70°C/100°F.

**Food & beverage**
- A reliable source of dry compressed air for the preparation and processing of food and beverages.
- Any kind of moisture is eliminated: the free and easy movement of ingredients, items or food/beverage is guaranteed.

**Oil & gas**
- Particularly for offshore, high-quality dry compressed air is critical.
- Full protection of your production continuity.
- A continuous supply of dry compressed air available 24/7 at a low dewpoint.

**Pharmaceuticals**
- A consistent flow of high-quality dry compressed air is vital in the processing and manufacturing of most pharmaceuticals.
- Eliminating any moisture is critical to produce pharmaceuticals as some materials have a physical affinity for moisture.
SUPERIOR ENERGY EFFICIENCY

A dryer’s energy consumption mainly goes to internal pressure drops and the regeneration process. The key for designing desiccant dryers is therefore to keep the pressure drop as low as possible, and to develop technologies that allow regeneration to be as efficient as possible. Atlas Copco’s dryers are designed to have a very low internal pressure drop below 0.2 bar/2.9 psi, and provide the most efficient regeneration process.

Low pressure drop saves energy and reduces operating costs

If a desiccant dryer experiences a high internal pressure drop, the compressor discharge pressure must be set higher than required, which wastes energy and increases operating costs. Atlas Copco has therefore put considerable efforts into minimizing pressure drops in its dryers. The result is that most CD+, BD+, and XD+ desiccant dryers have a pressure drop below 0.2 bar/2.9 psi.

Efficient regeneration due to Dewpoint Dependent Switching

Atlas Copco’s CD+, BD+, and XD+ desiccant dryers incorporate state-of-the-art energy management control with built-in Dewpoint Dependent Switching. This makes the dryers more efficient, leading to energy savings of up to 90%, depending on installation and usage.

The principle is simple. Although the regeneration time remains constant, the delay before switching from one tower to the other is controlled via the PDP sensor. This is connected to a hygrometer which precisely measures the remaining humidity in the outlet compressed air. As soon as the target PDP is reached, the dryer cycle that was on hold will resume by switching to the dry tower. Delaying cycles in this way leads to major energy savings. This occurs when operating conditions are lower than reference, or the flow fluctuates below maximum nominal load.

Typical dryer

- Pressure drop (on average 10%)
- Regeneration (on average 90%)

Atlas Copco dryer

- Reduced pressure drop below 0.2 bar/2.9 psi
- Dewpoint Dependent Switching for energy savings up to 90%
HOW DOES A DESICCANT DRYER WORK?

Wet air passes directly through the desiccant medium which adsorbs the moisture. The desiccant medium has a finite capacity for adsorbing moisture before it must be dried out, or regenerated. To do this, the tower containing saturated desiccant medium is depressurized and the accumulated water is driven off. How this happens depends on the type of desiccant dryer:

- Heatless dryers use only compressed air as a purge.
- Blower purge dryers use a combination of air from an external blower, heat and minimal compressed air.
- Heat of compression dryers use the heat of the compression.

The drying process

1. Wet compressed air flows upward through the desiccant which adsorbs the moisture, from bottom to top.

The regeneration process

2. Dry air from the outlet of the drying tower is expanded to atmospheric pressure and sent through the saturated desiccant, forcing the adsorbed moisture out.

3. After desorption, the blow-off valve is closed and the vessel is re-pressurized.

Switching

4. After regeneration, the functions of both towers are switched.

Cooling

Zero purge: After the heating, the hot tower desiccant is cooled. Cooling is done by sending air from the hot vessel over a cooler and back into the hot tower, from bottom to top.

Purge: After the heating, the hot tower desiccant is cooled. Cooling is done by expanding dry compressed air from the outlet of the adsorbing vessel over the hot re-activated tower, from top to bottom.
Atlas Copco’s XD+ adsorption dryers use the heat of compression from oil-free compressors to dry compressed air. This heat is used effectively to regenerate the high quality desiccant, significantly reducing energy and operating costs. As any need for outside energy supply can be eliminated, adsorption is by far the most economical method of compressed air drying.

**HEAT OF COMPRESSION DESICCANT DRYERS (WITH ZERO PURGE COOLING)**

**XD+ G MODELS:**
Combine heat of compression re-activated adsorption and internal heaters to achieve a constant pressure dewpoint of -40°C / -70°C or lower, regardless of ambient conditions.

**XD+ S MODELS:**
Use the heat of compression for regeneration and feature dewpoints of -10°C to -20°C, dependent upon ambient conditions. When combined with the high outlet temperatures of a ZR compressor, XD+S Purge models can achieve a dewpoint of -40°C.

Both models are available as single inlet and double inlet variant.

**Relative life cycle cost of the dryers over a 10-year period**

![Graph showing relative life cycle cost of the dryers over a 10-year period](image)
### CD 25⁺-145⁺: RELIABLE AND COMPACT

1. **Filters**
   - Pre-filter(s) protect desiccant against oil contamination, increasing desiccant lifetime.
   - After-filter protects network against desiccant dust, avoiding network contamination.
   - Can be mounted directly on the inlet and outlet of the dryer, for low pressure drop.
   - Easy to assemble and maintain as no extra piping or filter connections are required.

2. **High-quality valve block with few moving parts**
   Designed to minimize pressure drop and increase reliability.

3. **Overfilled and spring-loaded high-performance desiccant cartridges**
   - Pressure dewpoint of -40°C/-40°F as standard (-70°C/-100°F as option).
   - Filter mat increases silencer lifetime by preventing dust exiting during regeneration.
   - Overfilled cartridges protect against desiccant ageing and overflow peak.
   - Horizontal operation possible.

4. **Up-sized silencers with integrated safety valves**
   Advanced mufflers avoid back-pressure, increase purge efficiency, offer protection in case of clogging via the integrated safety valve, and reduce noise level during blow-off.
Advanced control and monitoring system

- Timer control variant cycles defined to reach PDP target even at 100% load.
- Auto restart after power failure function with cycle status memory.
- Full status annunciation on LEDs, display and pressure gauges.
- Remote alarm and remote control.
- Purge Saver contact: the dryer can freeze purge cycle in case of unload/stop signal.
- All controls are protected from water and dust thanks to the IP54 cubicle.

Dewpoint Dependent Switching (optional)

- Real PDP monitoring (hygrometer).
- PDP display on controller (and alarm).
- The dryer will only switch to the next tower when the desiccant is saturated (based on PDP input). During that period, the dryer consumes no purge.

Corrosion protected design

Base, heads, panels, valves and extrusion profiles are corrosion protected, increasing dryer lifetime.
CD 110⁺-1400⁺: OUTSTANDING RELIABILITY AND AVAILABILITY

High-quality desiccant
- Pressure dewpoint of -40°C/-40°F as standard (-70°C/-100°F as option).
- Up to 30% extra desiccant overfill to deliver consistent performance even in harsh conditions such as high temperatures and temporary overloads.

Filters
- Pre-filter(s) protect desiccant against oil contamination, increasing desiccant lifetime.
- After-filter protects network against desiccant dust, avoiding network contamination.
- Can be mounted directly on the inlet and outlet of the dryer, for low pressure drop.
- Easy to assemble and maintain as no extra piping or filter connections are required.

Robust and compact design
- Standard frame, including forklift slots and lifting eyes for easy handling.
- Wide vessels ensure a low air speed and a longer contact time.
- Flanges connecting vessels are integrated into the top and bottom shells, lowering the total unit height.

Up-sized silencers with integrated safety valves
Advanced mufflers avoid back-pressure, increase purge efficiency, offer protection in case of clogging via the integrated safety valve, and reduce noise level during blow-off.
2. **Dewpoint Dependent Switching**
- Real PDP monitoring (hygrometer).
- PDP display on controller (and alarm).
- The dryer will only switch to the next tower when the desiccant is saturated (based on PDP input). During that period, the dryer consumes no purge.

3. **Galvanized piping with flanged connections**
- Flanged piping simplifies maintenance and minimizes the chance of leakage.
- Pipe sizing is optimized to ensure a low pressure drop, resulting in energy savings.

4. **Advanced control and monitoring system**
- Fitted inside a real IP64 cubicle for easy cabling and safety.
- Monitors all parameters to ensure maximum reliability of the installation.

5. **Stainless steel valves**
Fully stainless steel high-performance butterfly valves with actuators ensure long lifetime.
**BD 100⁺-3000⁺: ROCK-SOLID RELIABILITY & COST-EFFICIENCY**

1. **Stainless steel valves**
   Fully stainless steel high-performance butterfly valves with actuators ensure long lifetime.

2. **Advanced control and monitoring system**
   - Fitted inside a real IP54 cubicle for easy cabling and safety.
   - Monitoring all parameters to ensure maximum reliability of installation.

3. **Low-wattage density heater**
   - Stainless steel design ensures long lifetime.
   - Nickel-plated heater pipe protects against corrosion.
   - Heater is installed in an insulated heater pipe for most energy-efficient setup.
   - Optionally insulated vessels are available to further reduce heat losses and increase overall efficiency (standard on the -70°C/-100°F variant).

4. **Dewpoint Dependent Switching**
   - Real PDP monitoring (hygrometer).
   - PDP display on controller (and alarm).
   - The dryer will only switch to the next tower when the desiccant is saturated (based on PDP input). During that period, the dryer consumes no energy.
Galvanized piping with flanged connections

- Flanged piping simplifies maintenance and minimizes the chance of leakage.
- Pipe sizing is optimized to ensure a low pressure drop, resulting in energy savings.

Long-life silica gel desiccant

- High-adsorption silica gel desiccant needs less reactivation energy than other drying agents.
- 2-layer desiccant bed; a water-resistant bottom layer protects the high-performing top layer.
- Pressure dewpoint of -40°C/-40°F as standard (-70°C/-100°F as option).
- Up to 30% extra desiccant overfill to deliver consistent performance even in harsh conditions such as high temperatures and temporary overloads.

Filters

- Pre-filter(s) protect desiccant against oil contamination, increasing desiccant lifetime.
- After-filter protects network against desiccant dust, avoiding network contamination.
- Can be mounted directly on the inlet and outlet of the dryer, for low pressure drop.
- Easy to assemble and maintain as no extra piping or filter connections are required.

Robust and compact design

- Standard frame, including forklift slots and lifting eyes for easy handling.
- Wide vessels ensure a low air speed and a longer contact time.
- Flanges connecting vessels are integrated into the top and bottom shells, lowering the total unit height.
**XD 550⁺-3600⁺: STATE-OF-THE-ART, ENERGY-EFFICIENT DRYING**

1. **Stainless steel internal heaters**
   - By generating heat only when needed, energy losses are limited.
   - Overheating protection and control by Elektronikon on each heater bundle.
   - The heated air does not need to pass through any valves, ensuring a reduced chance of valve failure.

   * Only for G-variants.

2. **Advanced control and monitoring system**
   - Fitted inside a real IP54 cubicle for easy cabling and safety.
   - Monitors all parameters to ensure maximum reliability of the installation.

3. **Drying towers**
   - Reduced pressure drop.
   - Built-in water separator to reduce desiccant load and extend the drying cycle.
   - Oversized.
   - Full size stainless steel strainer.
   - Reversed internal flow for optimal flow distribution.

4. **Dewpoint Dependent Switching**
   - Real PDP monitoring (hygrometer).
   - PDP display on controller (and alarm).
   - The dryer will only switch to the next tower when the desiccant is saturated (based on PDP input). During that period, the dryer consumes no energy.
**Stainless steel coolers**
- Maximum energy efficiency and extended lifetime.
- Guaranteed easy inspection and maintenance.
- Low pressure drop.
- High water separation.
- Bundles can be rodded in place.

**Hot air inlet**
- Heat of compression used for regeneration.
- No energy consumption.

**Water-resistant desiccant**
- Low desorption temperature and energy consumption.
- Easy filling and access via manholes/blind flanges.
- Extended lifetime.

**Electronic water drains with standard alarm**
- No loss of compressed air.
- Maintenance-free and trouble-free operation.
- Manual drains allow for easy servicing while in operation.
A STEP AHEAD IN CONTROL AND MONITORING

Atlas Copco’s Elektronikon® control and monitoring system takes continuous care of your desiccant dryer to ensure optimal productivity and efficiency at your site.

User-friendly interface
Available in 32 languages, this graphical 3.5-inch high-definition color display with pictograms and LED indicators for key events is easy to use. The keyboard is durable to resist tough treatment in demanding environments.

Comprehensive maintenance display
Valuable items of information displayed include the ServicePlan indicator and preventive maintenance warnings.

Internet-based visualization
The Elektronikon® system monitors and displays key parameters such as dewpoint, vessel pressure and inlet temperature, and includes an energy-savings indicator. Internet-based visualization of your dryer is possible by using a simple Ethernet connection.

SMARTLINK*

- Remote monitoring system that helps you optimize your compressed air system and save energy and costs.
- Provides a complete insight in your compressed air network.
- Anticipates on potential problems by warning you up-front.

* Please contact your local sales representative for more information.
# Optimize Your System

## Scope of Supply

| Air Circuit                | Stainless steel butterfly valves  
|                           | Galvanized in- and outlet piping  
|                           | In- and outlet air flanges  
|                           | Insulated heater pipe and connection pipe to vessels*  
| Connections               | DIN/flanges / ANSI/flanges  
|                           | Pre-mounted electrical cubicle  
|                           | Elektronikon control and monitoring system  
|                           | IP54 protected  
|                           | Voltage free contacts for remote alarm and warning signals  
|                           | Pressure dewpoint sensor and control  
| Electrical Components     | Base frame with forklift slots  
| Framework                 | Lifting holes  
| Mechanical Approval       | PED approval / ASME approval  

*Not on CD+

## Options

| CD 1+  | CD 25+  | CD 100+  | CD 330+  | BD 100+  | BD 330+  | BD 330+  | BD 330+  | XD 550+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  | BD 300+  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Max w/p 10 bar | Max w/p 14.5 bar | PDP sensor & control | 2nd PDP read-out | -70°C/100°F PDP | Pre & after filter GA | Pre & after filter Z | After filter | Pressure relief | Sonic nozzle | GSM | High inlet temp | High ambient temp | Dryer tower insulation | Optimized purge nozzle | Blower inlet filter | External pilot air connection |  

- : Standard  
• : Optional  
- : Not available

## Dessicant Dryer Range

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* Zero purge cooling
**TECHNICAL SPECIFICATIONS**

Heatless desiccant dryers

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Note: Bar denotes barometric pressure; psi denotes pounds per square inch. All dimensions are in millimeters (mm) and inches (in). Weight is in kilograms (kg) and pounds (lbs).
Blower purge desiccant dryers

**Purge Cooling**

<table>
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<tr>
<th>DRYER TYPE</th>
<th>I/s</th>
<th>m³/hr</th>
<th>cfm</th>
<th>kW</th>
<th>hp</th>
<th>bar</th>
<th>psi</th>
<th>50 Hz: G/ PN16 60 Hz: NPT/ DN</th>
<th>Pressure drop (excluding filters)</th>
<th>Filter sizes (recommended)</th>
<th>Dimensions</th>
<th>Weight</th>
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**Zero purge cooling**

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<th>hp</th>
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<th>Weight</th>
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**Heat of compression desiccant dryers**

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<th>kW</th>
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COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

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