Atlas Copco
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)
Complete protection for your application

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.

**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 drugs and medicines.
- Eliminating any moisture is critical to produce pharmaceuticals as some materials have a physical affinity for moisture.
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. 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.
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 and heat.
- Heat of compression dryers use the heat of the compression.

THE DRYING PROCESS

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

THE REGENERATION PROCESS

Heatless desiccant dryers:

- 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 (2) (4).
- After desorption, the blow-off valve is closed and the vessel is re-pressurized.

Heated blower purge desiccant dryers (with and without zero purge cooling):

- The blower (5) takes ambient air and blows it over the external heater (6). The heated air is then sent through the saturated desiccant (2), forcing the adsorbed moisture out, from top to bottom.

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 reactivated tower, from top to bottom.

SWITCHING

- After regeneration, the functions of both towers are switched (3).
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)**

![Diagram of XD+ dryers](image)

**A WEALTH OF POSSIBILITIES**

**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.*

**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.
The right desiccant dryer for your application

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.

WORKING PRINCIPLE

Desiccant dryers or twin tower dryers consist of two towers filled with desiccant such as activated alumina or silica gel. While one tower is drying compressed air, the other is being regenerated. Desiccant dryers can achieve dewpoints of down to -40°C/-40°F and -70°C/-100°F. Four types of desiccant dryer are widely used throughout industry: heatless, heated purge, heated blower purge and heat of compression.

- **Heatless dryers** use a small portion of the dried compressed air for regeneration.
- **Heated purge dryers** use a small and heated portion of the dried compressed air for regeneration.
- **Heated blower purge dryers** use heated ambient air for regeneration.
- **Heat of compression desiccant dryers** use the heat of compression to dry compressed air.
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.
CD 25⁺-145⁺: Reliable and compact

1. 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.

2. 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.

3. High-quality valve block with few moving parts
   - Designed to minimize pressure drop and increase reliability.
4 **Corrosion protected design**
- Base, heads, panels, valves and extrusion profiles are corrosion protected, increasing dryer lifetime.

5 **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.

6 **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.

7 **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.
CD 110⁺-1400⁺: Outstanding reliability and availability

**1. 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.

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

**3. 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.

**4. 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.
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.

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.

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.

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.
BD 100+-3000+: Rock-solid reliability & cost-efficiency

1. **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.

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

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. **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.
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.

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.

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.

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

2. **Stainless steel valves**
   - Maximum energy efficiency and extended lifetime.
   - Guaranteed easy inspection and maintenance.
   - Low pressure drop.
   - High water separation.
   - Bundles can be rodded in place.

3. **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
4 Water-resistant desiccant
- Low desorption temperature and energy consumption.
- Easy filling and access via manholes/blind flanges.
- Extended lifetime.

5 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.

6 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.

7 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.
Advanced 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.

**CONTROL AND MONITORING**

**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 | Insulated heater pipe and connection pipe to vessels* |
| Connections | DIN-flanges | ANSI-flanges | Pre-mounted electrical cubicle | Elektronikon control and monitoring system | IP64 protected | Voltage free contacts for remote alarm and warning signals | Pressure dewpoint sensor and control |
| Framework | Base frame with forklift slots | Lifting holes | Mechanical approval | PED approval | ASME approval |

Connections

Electrical components

- Elektronikon control and monitoring system
- IP54 protected
- Voltage free contacts for remote alarm and warning signals
- Pressure dewpoint sensor and control

Framework

- Base frame with forklift slots
- Lifting holes

Mechanical approval

- PED approval
- ASME approval

* Not on CD+

ADDITIONAL FEATURES & OPTIONS

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<th>CD1 - CD25</th>
<th>CD25+ - CD145+</th>
<th>CD100+ - CD300+</th>
<th>CD330+ - CD1400+</th>
<th>BD100 - BD300</th>
<th>BD330+ - BD3000+</th>
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- : Not available
○ : Standard
*: Optional

Dessicant dryer range

* Zero purge cooling
### HEATLESS DESICCANT DRYERS

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<th>Inlet / outlet connections</th>
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### BLOWER PURGE DESICCANT DRYERS

<table>
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<tr>
<th>DRYER TYPE</th>
<th>Inlet flow FAD 7bar(e)/100 psig(1)</th>
<th>Average power consumption</th>
<th>Pressure drop (excluding filters)</th>
<th>Inlet/outlet connections</th>
<th>Filter sizes (recommended)</th>
<th>Dimensions</th>
<th>Weight</th>
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#### Purge Cooling

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#### Heat of Compression Desiccant Dryers

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<th>Inlet/outlet connections</th>
<th>Filter sizes (recommended)</th>
<th>Dimensions</th>
<th>Weight</th>
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</table>

(1) FAD at reference conditions:
- Ambient air temperature: 35°C
- Ambient relative humidity: 60%
- Compressed air effective inlet pressure: 7 bar
- Compressed air inlet temperature: 20°C (120°C for XD+)
- Inlet relative humidity of compressed air: 100%
- Cooling water temperature: 26.7°C

The above dimensions are only an indication. Before calculating the space needed for installation, please always refer to the official dimension drawings.
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Building on interaction
As part of our long-term relationship with our customers, we have accumulated extensive knowledge of a wide diversity of processes, needs and objectives. This gives us the flexibility to adapt and efficiently produce customized compressed air solutions that meet and exceed your expectations.

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