

Atlas Copco

Portable desiccant dryers

CDR⁺ 980, CDR⁺ 1350, CDR⁺ 1700

For rental, chemical, oil & gas,
and mining applications



Your one-stop partner for a total solution

When you need reliable, dry air on-demand for tough applications in extreme environments, Atlas Copco's portable desiccant dryers are the answer.

As your trusted partner, we offer a total solution that meets your specific quality air needs in the field. Our portfolio includes portable air compressors, desiccant dryers, nitrogen generators, pneumatic tools, and boosters. Thanks to our global presence and worldwide service network, we're there for you every step of the way.



Why you need air treatment

Moisture is the hidden enemy of any compressed air system, leading to corrosion, equipment failure, and costly downtime. That's where air dryers come in. They remove excess moisture, ensuring high air quality and operational efficiency. Using a dryer can bring many benefits, for example, in sandblasting where moisture might not seem like an immediate issue.

Dry air is essential for maintaining efficiency, preventing product defects, and protecting equipment. More importantly, with proper air treatment, you can safeguard your operational efficiency. Even if you don't have any problems with your compressed air equipment, your bottom line will benefit in the long run.

In short, air treatment is essential for smooth, reliable operations, regardless of your application.

CDR⁺: Quality air you can trust in tough conditions with Cerades™

Our CDR⁺ portable desiccant dryers use the revolutionary Cerades™ desiccant, developed in-house by Atlas Copco. Compressed air passes through the solid desiccant instead of moving through loose desiccant beads. As a result, you enjoy a premium solution that ensures energy-efficient performance in extreme ambient conditions (from -25 to 50°C (-10 to 122°F)).

Key features



Energy-efficient solution

Thanks to a low pressure drop, you can both save energy and lower operational costs with Cerades™ technology.



Increased reliability

Thanks to robust, long-lasting Cerades™ structured desiccant, you can benefit from longer service intervals.



Lower operational costs

Dust-free operation with Cerades™ results in reduced operational costs and minimized downtime as well as environmental and health protection.



Less maintenance needed

Unlike loose desiccants that decays over time, Cerades™ lasts longer. That means your day-to-day operations are secured.



Ease of use

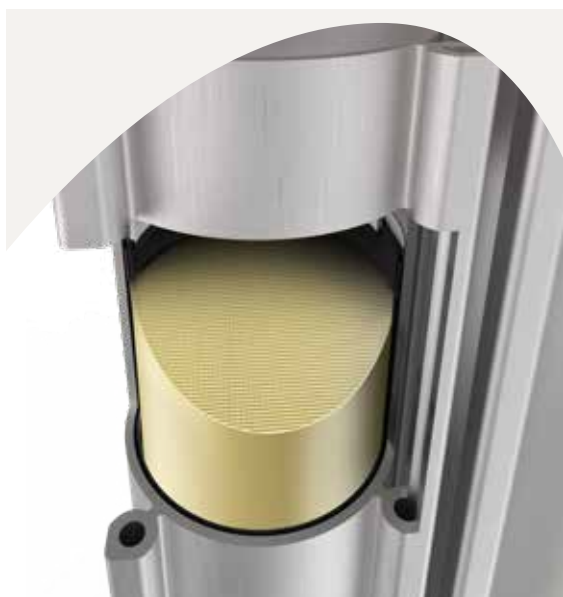
Compact, mobile, and easy to start up, saving time and effort at every stage of your operations.



Long-lasting quality

Built to withstand vibrations and extreme environments, ensuring long-term reliability in the field. Continuous dry air supply even in extreme environments—whether facing high temperatures, dust, or humidity.

Choose Atlas Copco portable desiccant dryers and secure your operations with reliable, energy-efficient, and easy-to-use air treatment solutions. Wherever you need dry air, we're here to make sure your systems keep running smoothly.



Atlas Copco's revolutionary Cerades™ technology

A desiccant dryer adsorbs moisture from the air. However, in traditional desiccant dryers, desiccant beads are loose, causing friction that results in wear and tear over time. To address the longevity of desiccant materials, Atlas Copco developed and patented the first ever solid desiccant: Cerades™.

This breakthrough desiccant dryer design delivers an exceptional resistance to vibrations. For you, this means dust-free operation that ensures superior air quality, reduces energy and maintenance costs, and brings health and environmental benefits.

CDR+ 980-1700

Featuring state-of-the-art Cerades™ technology

01 User-friendly design

- Ready-to-use with all filters included, preventing contamination.
- Optional integrated **precooler** to increase efficiency and energy savings when paired with optional **pressure dew point (PDP) sensor**.



02 Advanced energy savings

- Optimized regeneration system automatically adjusts pressure, minimizing the regeneration flow, thereby reducing air consumption.
- The optional dew point dependent switching allows the dryer to go into standby mode during part load, reducing purge losses while maintaining a low dew point.

03 Quiet operation

- Innovative silencing system with two large front silencers for quiet performance with minimal pressure drop.

04 Advanced control and monitoring system

- Xc2004 controller leverages Cerades™ technology to minimize purge losses and maintain optimal performance. It provides comprehensive diagnostics, operation at a variable pressure and timely information about scheduled maintenance.
- Standard **FleetLink** remote monitoring to track machine operation and forecast service requirements.





05 Service and maintenance-friendly

- Longer service intervals with durable Cerades™ that lasts longer than loose desiccant, which decays significantly over time.
- Quick and easy maintenance with compact Cerades™ blocks.
- No desiccant dust or extra filtration needed, improving health and environmental safety.

06 Integrated inlet filter

- Water separator removes liquid water for optimal performance.
- UD+ pre-filter prevents oil contamination, increasing desiccant lifetime.
- Easy to assemble and maintain. No extra piping and filter connections are required.
- No after-filter required to reach ISO 8573-1:2010 Class 2. To reach Class 1, a PDp+ filter is recommended.

07 Compact, durable design

- Heavy-duty canopy with lifting lugs and forklift slots for easy handling.
- Durable paint withstands extreme environments and harsh weather.
- Optimized dimensions for standard transport, reducing shipping costs.



Product applications



Rental



Chemical



Oil & Gas



Mining

Solutions to meet your needs

		CDR* 980	CDR* 1350	CDR* 1700
Rental		●	●	●
Chemical	Process air Instrumentation Material handling	●	●	●
Oil and Gas	Pneumatic tools/instruments Offshore applications Pipeline maintenance	●	●	●
Mining	Pneumatic tools Exploration drilling Back-up power	●	●	●

Technical data

Attribute	Unit	CDR+ 980	CDR+ 1350	CDR+ 1700
Reference conditions				
Compressed air effective inlet pressure	bar(g)	7	7	7
Compressed air effective inlet pressure	psi(g)	100	100	100
Compressed air inlet temperature	°C	35	35	35
Compressed air inlet temperature	°F	95	95	95
Pressure dew point	°C/°F	-40	-40	-40
Inlet relative humidity of compressed air	%	100	100	100
Ambient pressure	bar(g)	1.013	1.013	1.013
Ambient air temperature	°C	25	25	25
Ambient air temperature	°F	77	77	77
Volume flow at dryer inlet (*)				
Maximum volume flow at inlet at 7 bar / 100 psig	cfm	980	1350	1700
Maximum volume flow at inlet at 10 bar / 145 psig	cfm	1350	1795	2190
Maximum volume flow at inlet at 11 bar / 160 psig	cfm	1470	1960	2290
Maximum volume flow at inlet at 13 bar / 190 psig	cfm	1715	2290	2480
(*) At standard working conditions: 35°C/95°F compressed air inlet temperature, 100% relative humidity				
Limitations				
Minimum ambient temperature	°C	1	1	1
Minimum ambient temperature	°F	34	34	34
Maximum ambient temperature	°C	50	50	50
Maximum ambient temperature	°F	120	120	120
Minimum compressed air inlet pressure	bar(g)	5.5	5.5	5.5
Minimum compressed air inlet pressure	psi(g)	80	80	80
Maximum compressed air inlet pressure	bar(g)	14	14	14
Maximum compressed air inlet pressure	psi(g)	203	203	203
Minimum air inlet temperature	°C	1	1	1
Minimum air inlet temperature	°F	34	34	34
Maximum air inlet temperature	°C	60	60	60
Maximum air inlet temperature	°F	140	140	140
Dimensions				
Length	mm	2079	2079	2079
Width	mm	1378	1378	1378
Height	mm	1965	1965	1965
Mass	kg	1700	1850	2000
Length	inch	81.9	81.9	81.9
Width	inch	54.3	54.3	54.3
Height	inch	77.4	77.4	77.4
Mass	lbs	3748	4079	4409
Desiccant type		Cerades™	Cerades™	Cerades™
Air inlet connections		G2 internal	G2 internal	G2 internal
Air outlet connections		G2 internal	G2 internal	G2 internal
Inlet filter 1		WSD800+	WSD800+	WSD800+
Inlet filter 2		UD+430	UD+430	UD+430
Control system		Xc2004	Xc2004	Xc2004
Cooler type (optional)		Fin	Fin	Fin
Cooler material (optional)		Aluminium	Aluminium	Aluminium

Standard features

- High drying capacity (up to 800 l/s at 7 bar, up to 1200 l/s at 14 bar)
- Rugged components built for tough conditions (from -25 to 50°C (-10 to 122°F))
- 4-point lifting and forklift slots on all sides
- WSD water separator
- UD+ integrated inlet pressure filter
- Cerades™ technology
- Purge flow control
- Xc2004 controller

Options

- Precooler
- Pressure dew point (PDP) control

Our air solutions portfolio

Portable air compressors diesel driven

Small range



- 2-5 m³/min (33-175 cfm)
- 7-12 bar (100-175 psi)

Medium range



- 7-24 m³/min (250-850 cfm)
- 5-17 bar (73-250 psi)

Large range



- 20-60 m³/min (700-2000 cfm)
- 7-40 bar (100-580 psi)

Portable air compressors electric driven

E-Air, electric range



- 4-32.5 m³/min (140-1150 cfm)
- 5-14 bar (72-200 psi)

B-Air, battery range



- 3.8-5.5 m³/min (135-194 cfm)
- 5-12 bar (72-175 psi)

Boosters



- Up to 128 m³/min (4500 cfm)
- Up to 345 bar (5000 psi)

Handheld tools

Pneumatic tools



- Breakers (2,5-40 kg)
- Rock drills (5-25 kg)
- Underground rock drills
- Additional air tools

Hydraulic tools



- Breakers (11-40 kg)
- Additional hydraulic tools
- Powerpacks

Petrol engine driven tools



- Breakers & tie tampers (25 kg)
- Rock drills (23 kg)

Portable air treatment products

Nitrogen membrane generators



- Up to 85 m³/min (3000 cfm)
- Up to 25 bar (363 psi)

Desiccant air dryers



- Up to 78 m³/min (2750 cfm)
- 7-14 bar (100-205 psi)

Online solutions

FLEETLINK

Intelligent telematics is a system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.

