

Atlas Copco

Portable desiccant dryers

CDR 850, CDR 1200, CDR 1700

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



Your one-stop partner for a total solution

When you need a continuous, reliable supply of dry air for your toughest applications, Atlas Copco's portable desiccant dryers deliver.

As your trusted partner, we offer a total solution that meets your specific quality air needs in the field. Our portfolio includes portable 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.



Easy & reliable air treatment on-site

Designed to protect your compressed air system from moisture and corrosion, Atlas Copco CDR desiccant dryers ensure smooth and reliable operation. Built to withstand extreme conditions, the easy-to-use dryers provide dry air for your compressed air equipment, so you can work with confidence and peace of mind. Proper air treatment keeps your operation running smoothly, cuts down on downtime, and extends the lifespan of your equipment.

Why you need air treatment

Moisture is the hidden enemy of any compressed air system. Without proper air treatment, moisture can lead to corrosion, equipment failure, and costly downtime. That's where air dryers come in. They remove excess moisture, ensuring high air quality. Dry air is essential for maintaining efficiency, preventing product defects, and protecting equipment. In short, air treatment is essential for smooth, reliable operations.

CDR: Reliable dry air wherever you need

Atlas Copco CDR desiccant dryers are the ideal solution for on-location dry air needs. Built to withstand the toughest conditions, including high temperatures, dusty, and humid environments, our dryers ensure reliable performance wherever you need it.

Key features



Optimized for high performance

The optimized dimensions ensure ease of transportation without compromising performance.



Lower operational costs

Protect your compressed air equipment from corrosion and reduce maintenance costs.



Easy to operate, maintain & transport

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



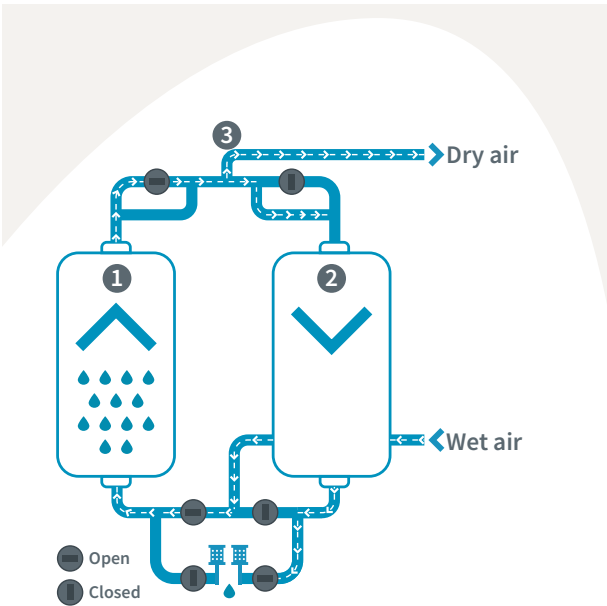
Increased reliability

With a continuous supply of dry air in even the most extreme conditions, you are secured for your day-to-day operations. With fully pneumatic control, these units are easy to start up and commission.



Less maintenance needed

Protect your compressed air equipment from corrosion and reduce maintenance costs.



How does a desiccant dryer work?

A desiccant dryer uses two towers filled with a desiccant. The desiccant adsorbs moisture from the air. As compressed air passes through one tower, the desiccant removes moisture from the air. Once the drying capacity of the desiccant is used, it must be dried out. This is achieved with a twin tower design. One tower adsorbs the air while the other is being regenerated.

- 1 Drying
- 2 Regeneration
- 3 Switching

CDR 850-1700

Rugged mobile dryers for tough applications

01 Superior desiccant quality

- Achieve a standard pressure dew point of -40°C/-40°F, even at inlet temperatures up to 60°C (with optional molecular sieve).
- Up to 20% extra desiccant ensures consistent performance in harsh conditions.
- Wide vessels ensure low air speed, longer contact time, and extended lifespan.



02 User-friendly design

- Ready-to-use with all filters included, preventing contamination.
- Fully pneumatic controls—no external power needed.
- Sonic nozzle prevents desiccant damage from overload or incorrect start-up.



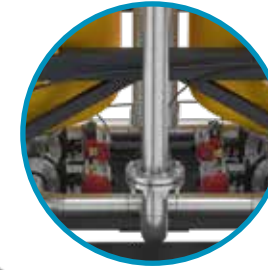
03 Comprehensive filtration

- Water separator removes liquid water, protecting the desiccant.
- Oil-coalescing filter eliminates oil and dust, extending desiccant lifespan.
- Air filter at the outlet safeguards your application from desiccant dust.



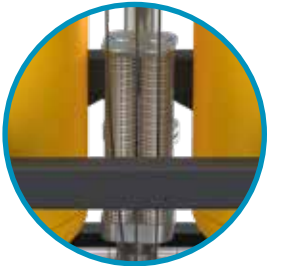
04 Durable butterfly valves

- Long-lasting butterfly valves with actuators ensure reliable operation, featuring a valve housing made of casting carbon steel and a valve plate made of stainless steel.



05 Advanced silencers

- Prevent back-pressure, improve purge efficiency, reduce clogging, and lower noise levels.



06 Robust galvanized piping

- Flanged piping simplifies maintenance and minimizes leaks.
- Optimized sizing ensures low pressure drop and maximized energy savings.

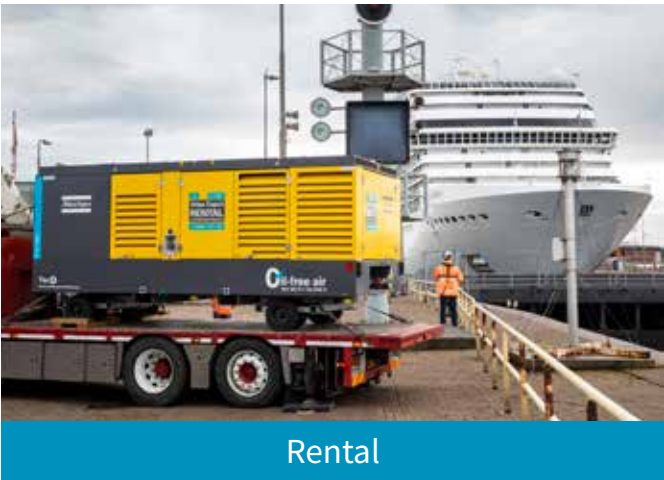


07 Compact, durable design

- Heavy-duty frame with lifting lugs and forklift slots for easy handling.
- Low center of gravity enhances stability and safety during installation.
- Durable paint withstands extreme environments and harsh weather.
- Optimized dimensions fit standard transport, reducing shipping costs.



Product applications



Rental



Chemical







Oil & Gas



Mining

Solutions to meet your needs

		CDR 850	CDR1200	CDR 1700
 Rental		●	●	●
	Process air	●	●	●
	Instrumentation	●	●	●
 Chemical	Material handling	●	●	●
	Pneumatic tools/instruments	●	●	●
	Offshore applications	●	●	●
 Oil and Gas	Pipeline maintenance	●	●	●
	Pneumatic tools	●	●	●
 Mining	Exploration drilling	●	●	●
	Back-up power	●	●	●

Technical data (ASME)

Limitations	Unit	CDR 850		CDR 1200		CDR 1700	
		STD	HIT	STD	HIT	STD	HIT
Minimum inlet pressure	bar(g)	7		7		7	
	psi(g)	100		100		100	
Maximum inlet pressure	bar(g)	16		16		16	
	psi(g)	230		230		230	
Minimum air inlet temperature	°C	1		1		1	
	°F	34		34		34	
Maximum air inlet temperature	°C	50	60	50	60	50	60
	°F	120	140	120	140	120	140
Minimum ambient temperature	°C	1		1		1	
	°F	34		34		34	
Pressure dew point	°C °F	-40		-40		-40	
Connections		DN 80 ASME		DN80 ASME		DN100 ASME	
Inlet water separator		Yes		Yes		Yes	
Inlet filter		UD 850		UD 1200		UD 1700	
Outlet filter		DDp 1200		DDp 1200		DDp 1700	
Desiccant type(*)		AA	MS	AA	MS	AA	MS

(*) AA = Activated Alumina, MS = Molecular Sieve

Volume flow at dryer inlet (**)	Unit	CDR 850	CDR 1200	CDR 1700
7 bar / 100 psi(g)	cfm	880	1200	1700
10 bar/145 psi(g)	cfm	1060	1440	2040
12 bar / 175 psi(g)	cfm	1290	1752	2482
14 bar / 200 psi(g)	cfm	1430	1944	2754

(**) At standard working conditions: 35°C/95°F compressed air inlet temperature, 100% relative humidity

Dimensions	Unit	CDR 850	CDR 1200	CDR 1700
Length	mm	2192	2192	2358
Width	mm	1300	1400	1712
Height	mm	2280	2280	2280
Length	inch	86.3	86.3	92.8
Width	inch	51.2	55.1	67.4
Height	inch	89.8	89.8	89.8
Weight	kg	2300	2550	3500
Weight	lbs	5071	5622	7716

*STD: Standard and HIT: High inlet temperature

Technical data (ML)

Limitations	Unit	CDR 850		CDR 1200		CDR 1700	
		STD	HIT	STD	HIT	STD	HIT
Minimum inlet pressure	bar(g)	7		7		7	
	psi(g)	100		100		100	
Maximum inlet pressure	bar(g)	14,5		14,5		14,5	
	psi(g)	210		210		210	
Minimum air inlet temperature	°C	1		1		1	
	°F	34		34		34	
Maximum air inlet temperature	°C	50	60	50	60	50	60
	°F	120	140	120	140	120	140
Minimum ambient temperature	°C	1		1		1	
	°F	34		34		34	
Pressue dew point	°C °F	-40		-40		-40	
Connections		HG/T20592 PN16 DN80		HG/T20592 PN16 DN80		HG/T20592 PN16 DN100	
Inlet water separator		Yes		Yes		Yes	
Inlet filter		UD 850		UD 1200		UD 1700	
Outlet filter		DDp 1200		DDp 1200		DDp 1700	
Desiccant type(*)		AA	MS	AA	MS	AA	MS

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Length	inch	86.3	86.3	92.8
Width	inch	51.2	55.1	67.4
Height	inch	89.8	89.8	89.8
Weight	kg	2300	2700	3400
Weight	lbs	5070	5950	7490

*STD: Standard and HIT: High inlet temperature

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)

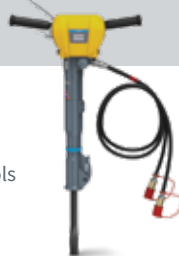
Handheld tools

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.



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Atlas Copco Power Technique
atlas-copco.com/mobile-air-compressors