

Atlas Copco

Desiccant air dryers

CD - CD⁺ - BD⁺ - BD⁺ ZP

Level up your experience at
atlascopco.com

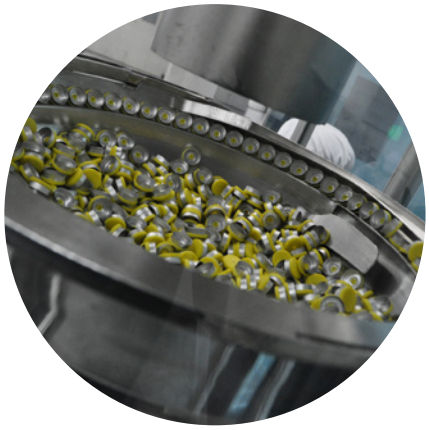
Air treatment, a crucial investment



Why you need quality air

Compressed air contains oil, solid particles and water vapors. Together, they form an abrasive, often acidic, oily sludge. Without air treatment, this murky mix will enter your compressed air system, corroding pipe work, damaging pneumatic tools and potentially compromising final products.





Meet your specific requirements

Atlas Copco desiccant dryers offer the right air quality for your application with pressure dew points as low as -70°C/-100°F or ISO Class [-:1:-].

Compressed air purity classification ISO 8573-1:2010

Purity class	Solid particles			Water		Total oil*
	Number of particles per m^3			Pressure dew point		Concentration
	0.1 < d ≤ 0.5 µm**	0.5 < d ≤ 1.0 µm**	1.0 < d ≤ 5.0 µm**	°C	°F	mg/m^3
0	As specified by the equipment user or supplier and more stringent than Class 1.					
1	≤ 20000	≤ 400	≤ 10	≤ -70	≤ -94	≤ 0.01
2	≤ 400000	≤ 6000	≤ 100	≤ -40	≤ -40	≤ 0.1
3	-	≤ 90000	≤ 1000	≤ -20	≤ -4	≤ 1
4	-	-	≤ 10000	≤ 3	≤ 37.4	≤ 5
5	-	-	≤ 100000	≤ 7	≤ 44.6	-
6	≤ 5 mg/m^3			≤ 10	≤ 50	-

* Liquid, aerosol and vapor.
** d= diameter of the particle.

Atlas Copco desiccant dryers, quality you can trust

Safeguard your production and your reputation

Atlas Copco desiccant dryers protect the reliability of your production and the quality of your products. The high-performance dryers remove the moisture from your compressed air with a standard pressure dew point of -20°C/-5°F, -40°C/-40°F and -70°C/-100°F. For complete peace of mind, you can even set your dew point to meet the specific needs of your application.



Set new quality standards

Tested according to ISO 7183:2007, Atlas Copco desiccant dryers meet and often exceed international standards for compressed air purity.

Naturally, all our dryers provide full protection of electrical components, controls and displays.

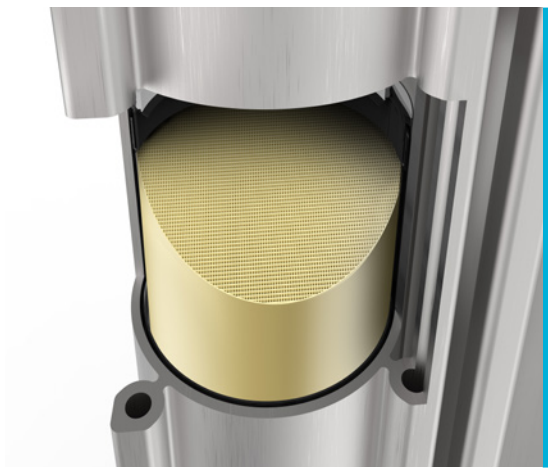
Drive down energy costs

Atlas Copco desiccant dryers come with a range of energy-saving features that cut your carbon footprint.

- A pressure drop below 0.2 bar/2.9 psi drives down energy costs.
- Dew point sensing and control adjust energy consumption to the real load of the dryer.
- An adjustable dew point enables you to adapt the dryer to your actual needs.

Enjoy easy installation and long maintenance intervals

Thanks to their compact all-in-one design, the dryers are an unobtrusive presence on your production floor. Delivered ready for use, their installation is quick and easy. All internal components are readily accessible to facilitate maintenance. The high-grade desiccant and durable valves extend service intervals beyond the standard three years.



Cerades™: a desiccant revolution by Atlas Copco

Some innovations change everything. Take Cerades™, the first ever solid desiccant. Developed and patented by Atlas Copco, Cerades™ revolutionizes desiccant dryer design, efficiency and performance. And that makes all the difference for you as you enjoy better air quality, lower energy and service costs, and health and environmental benefits. The new CD 5⁺-335⁺ is the first dryer to feature Cerades™. Find out all about the CD 5⁺-335⁺ and Cerades™ on page 8-9.

How do desiccant dryers work?

Desiccant dryers consist of two towers filled with desiccant. Wet compressed air passes directly through the substance, which adsorbs the moisture. The desiccant has a finite adsorption capacity before it must be dried out. Hence the twin tower design. While one tower is drying air, the other is being regenerated.

Atlas Copco offers two types of desiccant dryers, the BD⁺ range of blower (zero) purge dryers and the CD(+) series of heatless desiccant dryers. The difference lies in their regeneration process.

1. Drying

Wet compressed air flows upward through the adsorbent desiccant from bottom to top (1).

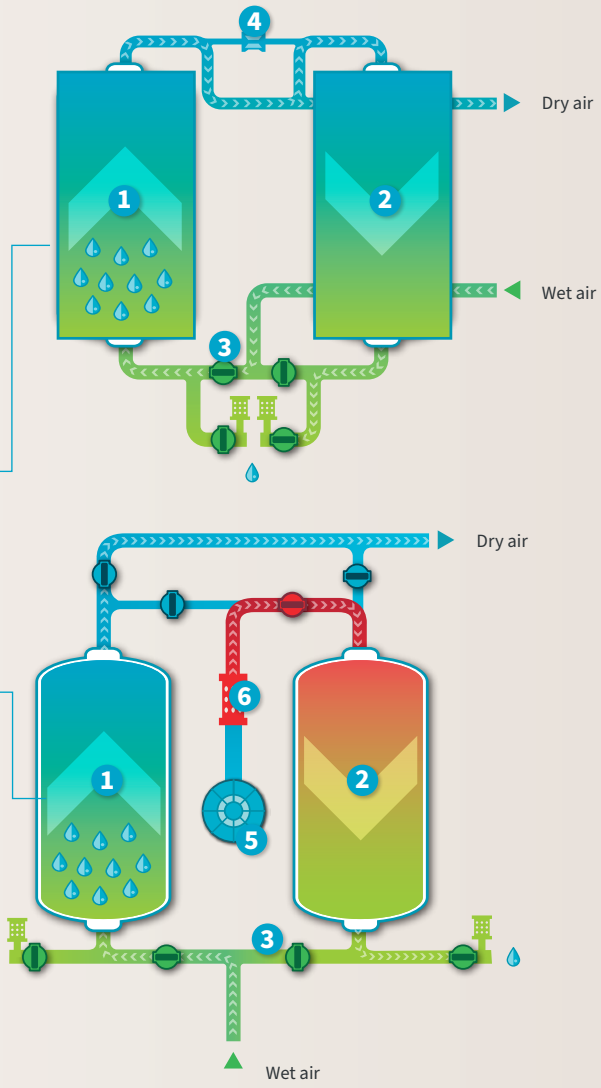
2. Regeneration

Heatless desiccant dryers – CD⁺:

Dry air from the drying tower outlet is expanded to atmospheric pressure and sent through the saturated desiccant, forcing the adsorbed moisture out (2 and 4). After desorption, the blow-off valve is closed and the vessel is re-pressurized.

Blower (zero) purge desiccant dryers – BD⁺:

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



3. Cooling (BD⁺)

BD⁺ with purge:

After the heating phase, the desiccant is cooled by expanding dry compressed air from the outlet of the adsorbing vessel over the hot reactivated tower.

BD⁺ with zero purge:

After the heating phase, the blower takes in ambient air and sends it through the reactivated tower from bottom to top.

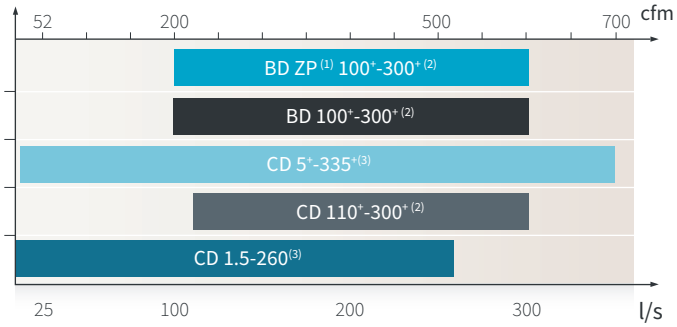
4. Switching

After regeneration, drying switches from the saturated tower to the regenerated tower (3).

Which Atlas Copco desiccant dryer is right for you?

With the BD⁺ blower (zero) purge dryers and CD(+) heatless desiccant dryer series, Atlas Copco offers a desiccant drying solution to meet your exact needs.

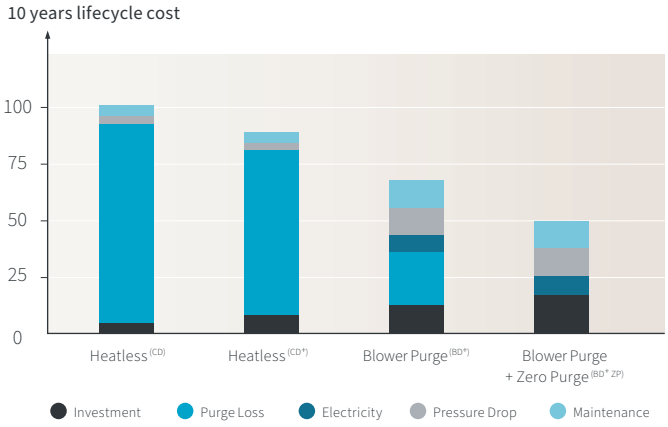
Atlas Copco desiccant dryer range



(1) BD ZP: BD⁺ zero purge version
(2) Vessel version
(3) Extruded version

Lifecycle cost

A heatless desiccant dryer is more expensive to own because it uses a high amount of compressed air for purging during regeneration. Typically, purge air takes up 16% to 19% of the rated flow capacity of a heatless dryer. However, the heatless dryer remains a popular choice because of its simplicity, reliability and low investment cost.



Site conditions

Because of their simple design, heatless desiccant dryers are often preferred for extreme environments. This includes remote areas, hazardous sites with explosive gases and powders, and applications with a high inlet air temperature.

Superior energy efficiency

Reduced pressure drop below 0.2 bar/2.9 psi

A dryer's energy consumption is determined by its internal pressure drop and the efficiency of its regeneration process. If a desiccant dryer experiences a high pressure drop, the compressor discharge pressure must be set higher, which increases energy and operating costs. Atlas Copco BD⁺ and CD(⁺) desiccant dryers offer a very low pressure drop – below 0.2 bar/2.9 psi for most models – as well as the most efficient regeneration process.

Dew Point Dependent Switching for energy savings up to 90%

Atlas Copco's BD⁺ and CD(⁺) desiccant dryers incorporate state-of-the-art energy management control with built-in Dew Point Dependent Switching. The principle is simple. A dew point sensor will delay switching towers until dryer conditions require it. This cycle time extension can generate energy savings of up to 90%.



BD 100^{+}-300^{+}

Premium performance & cost-efficiency





1. Quality desiccant

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



2. Stainless steel valves

High-performance stainless steel butterfly valves with actuators ensure a long lifetime.

3. Low wattage density heater

- Stainless steel design extends lifetime.
- Heater is installed in an insulated pipe for an energy-efficient set-up.
- Insulated vessels are available as an option to further reduce heat losses and increase overall efficiency (standard on the -70°C/-100°F model).



4. Galvanized piping with flanged connections

- Flanged piping simplifies maintenance and minimizes the risk of leaks.
- Pipe sizing is optimized to ensure a low pressure drop for maximum energy savings.



5. Filters

- A pre-filter prevents oil contamination to increase desiccant lifetime.
- An after-filter protects the airnet from desiccant dust and network contamination.
- Can be mounted directly on the inlet and outlet of the dryer for a low pressure drop.
- Easy to assemble and maintain. No extra piping and filter connections are required.





6. Advanced control and monitoring system

- Fitted inside an IP54 cubicle for easy cabling and safety.
- Monitors all parameters to ensure maximum reliability.

7. Dew Point Dependent Switching

- Real pressure dew point monitoring (hygrometer).
- Pressure dew point (and alarm).
- The dryer will only switch to the other tower when the desiccant is saturated, as measured by the dew point sensor. During this cycle time extension, the dryer consumes no purge air, resulting in a significant reduction in energy use.



8. 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 the vessels are integrated into the top and bottom shells, lowering the total unit height.

Zero Purge, maximum energy savings

Looking for the desiccant dryer with the lowest operating costs? The BD⁺ Zero Purge is your best choice. With zero purge losses and minimal electricity use, the BD⁺ ZP offers the highest energy savings. Our lifecycle cost comparison on page 5 quantifies the differences.



CD 5⁺-335⁺

Cerades™ efficiency & continuous operation



1. Cerades™

The CD 5⁺-335⁺ is the first dryer to use the revolutionary Cerades™ desiccant developed and patented by Atlas Copco. Compressed air is channeled straight through the solid desiccant, as opposed to pushing its way through loose desiccant beads. As a result, you enjoy:

- Lower energy costs and a minimal pressure drop thanks to the straight, no-resistance air flow.
- Better air quality and longer service intervals because Cerades™ lasts longer than loose desiccant, which decays significantly over time.
- Environmental and health protection, lower operational costs, and less downtime as Cerades™ eliminates desiccant dust and the need to filter it out to reach ISO 8573-1:2010 Class 2 for particles.
- Trouble-free installation and continuous operation.
- A smaller dryer footprint with Cerades™ can handle a higher air flow.

2. High-efficiency operation

Designed to perform reliably at continuous operation of 100% air flow, whereas most dryers on the market are only built to work at 70% to 80%. This includes a constant pressure dew point of -20°C/-5°F, -40°C/-40°F, -70°C/-100°F as standard. The pressure dew point can also be adjusted for seasonal or application changes.

3. Advanced energy savings

- Up to 70% less pressure drop compared to the previous model.
- 15% purge air reduction compared to the standard CD model.
- Optional Dew Point Dependent Switching. The dryer will only switch to the other tower when the desiccant is saturated, as measured by the dew point sensor. During this cycle time extension, the dryer consumes no purge air, resulting in a significant reduction in energy use.
- Dew point can be set to the requirements of your application to reduce energy consumption.



4. Unique manifold/valve design

- Large pipe diameter minimizes pressure drop for advanced energy savings.
- Electronically operated 3/2 valve reduces risk of breakdowns and offers reliable control during air flow fluctuations. With this new design, vessel switching operates unfailingly even in rough conditions.
- Service openings ensure easy maintenance of the moving parts of the valve system.

5. New silencing design

Innovative silencing system with large front silencer provides quiet performance with minimal pressure drop (CD 30⁺-335⁺).



6. Advanced control and monitoring

- Advanced DC 1 controller (standard for CD 5⁺-30⁺) and state-of-the-art Elektronikon® Touch control and monitoring system (standard for CD 30⁺-335⁺) with warning indications, dryer shutdown and maintenance scheduling.
- Standard **SMART**LINK remote monitoring to maximize air system performance and energy savings with Elektronikon® Touch controller.
- Pressure dew point sensor for Dew Point Dependent Switching standard with Elektronikon® Touch.

7. Service and maintenance-friendly

- Compact Cerades™ blocks allow for quick and easy maintenance.
- Loose desiccant decomposes over time, releasing a fine dust into the air system, which requires extra filtration and maintenance. This dust is also a health and environmental hazard, as it circulates in the ambient air during desiccant replacement. Cerades™ eliminates this dust problem.

8. Integrated inlet filter

- A highly efficient UD+ pre-filter prevents oil contamination to increase desiccant lifetime.
- For mounting directly on the inlet of the dryer to ensure a low pressure drop.
- Easy to assemble and maintain. No extra piping and filter connections are required.
- An after-filter is not required to reach ISO 8573-1:2010 Class 2 for particles. To reach Class 1, a PDp⁺ filter is recommended.

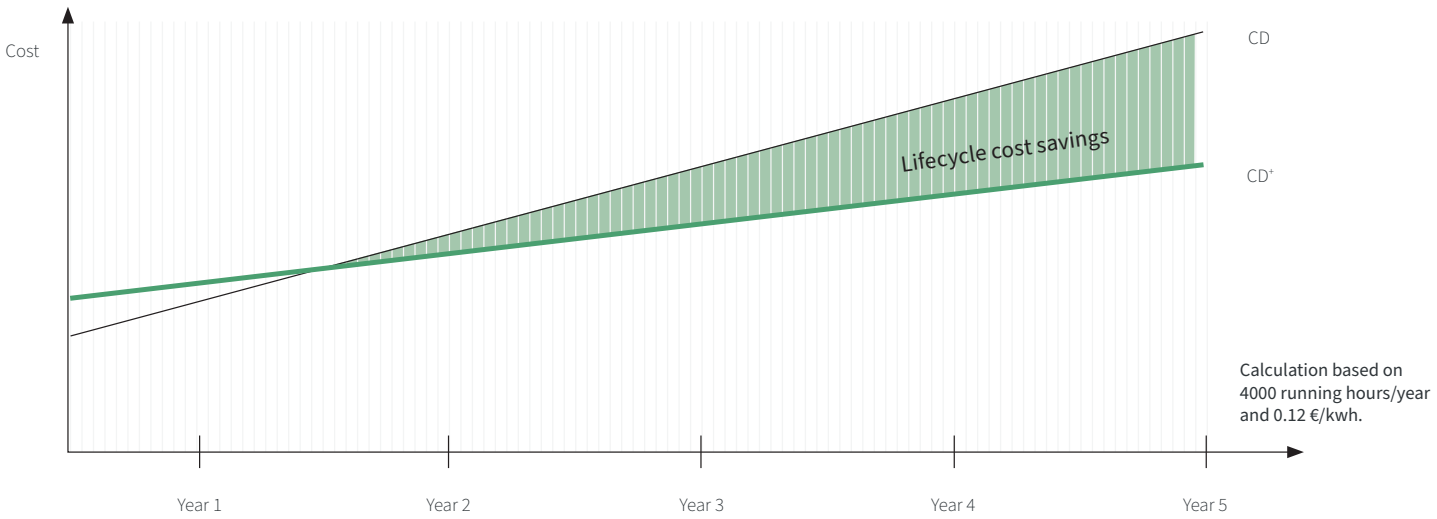
9. Nozzle purge set

Offers flexibility in optimizing regeneration pressure. Standard is 7 bar; 4-bar, 5.5-bar, 8.5-bar, 10-bar, 11.5-bar, 13-bar and 14-bar nozzles come as separate parts.

10. Advanced options

- Pressure dew point sensor for DC 1 controller.
- Wall mounting kit.

CD⁺ efficiency delivers fast return on investment



CD 110^{+}-300^{+}

State-of-the art
& consistent performance



1. Quality desiccant

- Pressure dew point of -40°C/-40°F as standard (-70°C/-100°F optional).
- Up to 30% extra desiccant to deliver consistent performance, even in harsh conditions such as high temperatures and temporary overloads.



2. Stainless steel valves

High-performance stainless steel butterfly valves with actuators ensure a long lifetime.

3. Upsized silencers

State-of-the-art mufflers with integrated safety valves avoid back-pressure, increase purge efficiency, offer protection in case of clogging, and reduce noise levels during blow-off.





4. Galvanized piping with flanged connections

- Flanged piping simplifies maintenance and minimizes the risk of leaks.
- Pipe sizing is optimized to ensure a low pressure drop for maximum energy savings.





5. Filters



- A pre-filter prevents oil contamination to increase desiccant lifetime.
- An after-filter protects the airnet from desiccant dust and network contamination.
- Can be mounted directly on the inlet and outlet of the dryer for a low pressure drop.
- Easy to assemble and maintain. No extra piping and filter connections are required.



6. 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.



7. Dew Point Dependent Switching

- Real pressure dew point monitoring (hygrometer).
- Pressure dew point (and alarm).
- The dryer will only switch to the other tower when the desiccant is saturated, as measured by the dew point sensor. During this cycle time extension, the dryer consumes no purge air, resulting in a significant reduction in energy use.

8. 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.
- Different vessel certificates available upon request.

CD 25-260

Competitive investment & superb reliability

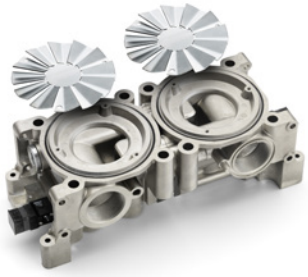


1. Reliable operation

Designed to perform reliably at continuous operation of 100% air flow, whereas most dryers on the market are only built to work at 70% to 80%. This includes a constant pressure dew point of -20°C/-5°F or -40°C/-40°F as standard. The pressure dew point can also be adjusted for seasonal or application changes.

2. Unique manifold/valve design

- Large pipe diameter minimizes pressure drop for advanced energy savings.
- Electronically operated 3/2 valve reduces risk of breakdowns and offers reliable control during air flow fluctuations. Vessel switching operates unfailingly even in rough conditions.
- Service openings ensure easy maintenance of the moving parts of the valve system.
- Clever strainer design minimizes pressure drop, regeneration times and energy consumption. Its “swirl” technology ensures optimal distribution of the air flow and decreases wear of the desiccant.



3. Advanced control and monitoring system

- 4-line display in 23 languages.
- Service alarms and general alarm relay.
- Monitors all parameters to ensure maximum reliability.
- Allows for synchronization with the compressor, turning on/off when the compressor does.
- Service indications (4,000, 8,000 and 40,000 hours) and warnings.

4. Service and maintenance-friendly

- Desiccant bags allow for quick replacement without spilling adsorbent material.
- A spring covers the bags to prevent damage by desiccant moving due to pressure pulsations.

5. Attached filters

- A durable PD+ pre-filter prevents oil contamination to increase desiccant lifetime and is included for installation in the air piping.
- A DDp+ after-filter protects the airnet from desiccant dust and network contamination and is included for installation in the air piping.

6. Nozzle purge set

Offers flexibility in optimizing regeneration pressure for lowest purge air consumption. Standard is 7 bar; 4- and 10-bar nozzles come as separate parts.

7. Advanced options

- Pressure dew point sensor required for Dew Point Dependent Switching.
- Wall mounting kit.

CD 1.5-5
CD 10-20

A reliable, compact solution



Piping not included as standard with the CD 1.5-5.



The CD 10-20 comes with a unique manifold/valve design:

- Large pipe diameter minimizes pressure drop for advanced energy savings.
- Electronically operated 3/2 valve reduces risk of breakdowns and offers reliable control during air flow fluctuations. With this new design, vessel switching operates unfailingly even in rough conditions.
- Service openings ensure easy maintenance of the moving parts of the valve system.

1. Reliable clean air

Built to deliver a constant pressure dew point of -40°C/-40°F and -70°C/-100°F for critical applications. Ensures consistent air quality even during fluctuating demand and is ideal for point-of-use or small installations.

2. Compact and flexible design

- Supplied with wall mounting brackets for quick installation and to save on floor space.
- Low internal pressure drop (<0.2 bar) minimizes energy losses and ensures efficient operation.

3. Advanced control

- Provides cycle status indication and basic fault diagnostics.
- Compatible with optional PDP (pressure dew point) sensor for Dew Point Dependent Switching.

4. Service and maintenance-friendly

- The CD 1.5-5 uses pre-filled, spring-loaded desiccant cartridges to reduce wear and prevent material loss during operation. Quick cartridge replacement minimizes downtime.
- The CD 10-20 comes with desiccant bags to allow for quick replacement without spilling adsorbent material.

5. Filters

- UD+ pre-filter stops oil and particles before they reach the desiccant to extend filter lifetime.
- DDp+ after-filter (integrated on the CD 1.5-5) protects your airnet from desiccant dust and contaminants.

6. Energy savings

- Low purge air consumption thanks to smart valve and nozzle design.
- Optional PDP control further reduces energy use by starting regeneration cycles based on actual desiccant saturation levels instead of on fixed intervals.

7. Advanced options

PDP sensor for real-time dew point monitoring and energy-optimized regeneration.

Desiccant dryer options

■ = standard ● = optional - = not available

Options	CD 1.5-5	CD 10-20	CD⁺ 5-30	CD⁺ 20-335	CD 25-260	CD⁺ 100-300	BD⁺ 100-300	
							Purge	Zero Purge
Desiccant type	Beads	Beads	Cerades™ (-70°C/-100°F with beads)	Cerades™ (-70°C/-100°F with beads)	Beads	Beads	Beads	Beads
Maximum working pressure 14 bar(g)/205 psi(g)	■	■	■	■	■	■	■	■
Pressure dew point sensor and controls (PDP control)	●	●	●	●/■	●	■	■	■
Elektronikon control and monitoring system	-	-	-	■	-	■	■	■
DC 1 controller	■	■	■	■	■	-	-	-
Pneumatic control	-	-	-	-	-	●	■	■
Premium pre- and after-filter	■ (integrated after-filter)	■ (pre-filter only)	■ (pre-filter only)	■ (pre-filter only)	■	■	■	■
Optimized purge nozzle	■ (adjustable)	■ (6 pressures)	■ (6 pressures)	■ (6 pressures)	■ (2 pressures)	●	●	●
IP65/NEMA 4 cubicle	-	●	●	■	-	●	●/■	●/■
Pressure relief valves (not on CD⁺ 50 Hz versions)	-	-	-	-	-	●/■	■	■
Sonic nozzle	-	-	-	-	-	●	■	■
Dryer tower insulation	-	-	-	-	-	-	●/■	●/■
Blower inlet filter	-	-	-	-	-	-	●	●
Reversed in - outlet piping	-	-	-	-	-	●	●	●
Dp switch on filters	-	-	-	-	-	●	●	●
High Inlet Temperature (HIT)	-	-	-	-	-	-	●	●
Wall mounting set	■	●	●	● (simplex only)	● (simplex only)	-	-	-
Condensate collector	-	●	●	-	-	-	-	-

Technical specifications

BD 100+-300+ Purge

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
BD 100+	100	360	212	-40 | -70	-70 | -100	[2:2-1:2]	Beads	0.2	2.9	UD 110+	DDp 110+	1 1/2"	1 1/2"	1131 x 896 x 1855	45 x 35 x 73	394	869
BD 150+	150	540	318	-40 | -70	-70 | -100	[2:2-1:2]	Beads	1.2	17.4	UD 180+	DDp 180+	1 1/2"	1 1/2"	1311 x 966 x 1891	52 x 38 x 74	511	1127
BD 185+	185	666	392	-40 | -70	-70 | -100	[2:2-1:2]	Beads	2.2	31.9	UD 180+	DDp 180+	1 1/2"	1 1/2"	1311 x 966 x 1891	52 x 38 x 74	547	1206
BD 250+	250	900	530	-40 | -70	-70 | -100	[2:2-1:2]	Beads	3.2	46.4	UD 300+	DDp 300+	2"	2"	1444 x 1098 x 1969	57 x 43 x 78	689	1519
BD 300+	300	1080	636	-40 | -70	-70 | -100	[2:2-1:2]	Beads	4.2	60.9	UD 300+	DDp 300+	2"	2"	1434 x 1123 x 2006	56 x 44 x 79	777	1713

BD 100+-300+ Zero Purge

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
BD 100+ ZP	100	360	212	-40 | -70	-70 | -100	[2:2-1:2]	Beads	0.2	2.9	UD 110+	DDp 110+	1 1/2"	1 1/2"	1131 x 840 x 1690	45 x 33 x 67	346	763
BD 150+ ZP	150	540	318	-40 | -70	-70 | -100	[2:2-1:2]	Beads	1.2	17.4	UD 180+	DDp 180+	1 1/2"	1 1/2"	1311 x 971 x 1706	52 x 38 x 67	457	1008
BD 185+ ZP	185	666	392	-40 | -70	-70 | -100	[2:2-1:2]	Beads	2.2	31.9	UD 180+	DDp 180+	1 1/2"	1 1/2"	1311 x 971 x 1706	52 x 38 x 67	496	1093
BD 250+ ZP	250	900	530	-40 | -70	-70 | -100	[2:2-1:2]	Beads	3.2	46.4	UD 300+	DDp 300+	2"	2"	1444 x 1002 x 1791	57 x 39 x 71	632	1393
BD 300+ ZP	300	1080	636	-40 | -70	-70 | -100	[2:2-1:2]	Beads	4.2	60.9	UD 300+	DDp 300+	2"	2"	1434 x 1088 x 1828	56 x 43 x 72	736	1623

CD 110+-300+

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
CD 110+	107	385.2	226.7	-40	-40	[2:2:2]	Beads	0.09	1.3	UD 110+	DDp 110+	1 1/2"	1 1/2"	950 x 728 x 1695	37.5 x 28.7 x 66.7	340	750
CD 150+	150	540	317.8	-40	-40	[2:2:2]	Beads	0.16	2.3	UD 180+	DDp 180+	1 1/2"	1 1/2"	1089 x 848 x 1731	42.9 x 33.4 x 68.1	915	2017
CD 185+	185	666	392.0	-40	-40	[2:2:2]	Beads	0.1	1.5	UD 180+	DDp 180+	1 1/2"	1 1/2"	1089 x 848 x 1731	42.9 x 33.4 x 68.1	981	2163
CD 250+	250	900	529.7	-40	-40	[2:2:2]	Beads	0.09	1.3	UD 300+	DDp 300+	2"	2"	1106 x 960 x 1816	43.5 x 37.8 x 71.5	1323	2917
CD 300+	300	1080	635.7	-40	-40	[2:2:2]	Beads	0.1	1.5	UD 300+	DDp 300+	2"	2"	1173 x 1116 x 1854	46.2 x 43.9 x 73.0	1433	3159
CD 110+	107	385.2	226.7	-70	-100	[2:1:2]	Beads	0.09	1.3	UD 110+	DDp 110+	1 1/2"	1 1/2"	950 x 728 x 1695	37.5 x 28.7 x 66.7	340	750
CD 150+	150	540	317.8	-70	-100	[2:1:2]	Beads	0.16	2.3	UD 180+	DDp 180+	1 1/2"	1 1/2"	1089 x 848 x 1731	42.9 x 33.4 x 68.1	915	2017
CD 185+	185	666	392.0	-70	-100	[2:1:2]	Beads	0.1	1.5	UD 180+	DDp 180+	1 1/2"	1 1/2"	1089 x 848 x 1731	42.9 x 33.4 x 68.1	981	2163
CD 250+	250	900	529.7	-70	-100	[2:1:2]	Beads	0.09	1.3	UD 300+	DDp 300+	2"	2"	1106 x 960 x 1816	43.5 x 37.8 x 71.5	1323	2917
CD 300+	300	1080	635.7	-70	-100	[2:1:2]	Beads	0.1	1.5	UD 300+	DDp 300+	2"	2"	1173 x 1116 x 1854	46.2 x 43.9 x 73.0	1433	3159

Technical specifications

CD 5⁺-30⁺

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
CD 9⁺	9	32.4	19.1	-70	-100	[2:1:2]	Beads	0.09	1.2	UD 15+	DDp 15+	1/2"	1/2"	400 x 365 x 1260	15.7 x 14.4 x 49.6	45	99
CD 12⁺	12	43.2	25.4	-70	-100	[2:1:2]	Beads	0.13	1.9	UD 15+	DDp 15+	1/2"	1/2"	400 x 365 x 1415	15.7 x 14.4 x 55.7	50	110
CD 15⁺	15	54	31.8	-70	-100	[2:1:2]	Beads	0.18	2.6	UD 15+	DDp 15+	1/2"	1/2"	400 x 365 x 1595	15.7 x 14.4 x 62.8	57	126
CD 18⁺	18	64.8	38.1	-70	-100	[2:1:2]	Beads	0.22	3.2	UD 25+	DDp 25+	1/2"	1/2"	400 x 365 x 1755	15.7 x 14.4 x 69.1	63	139
CD 5⁺	5.5	19.8	11.7	-40	-40	[2:2:2]	Cerades™	0.08	1.2	UD 7+	NA*	1/2"	1"	400 x 365 x 950	15.7 x 14.4 x 37.4	32	71
CD 10⁺	10	36	21.2	-40	-40	[2:2:2]	Cerades™	0.11	1.6	UD 15+	NA*	1/2"	1"	400 x 365 x 1105	15.7 x 14.4 x 43.5	37	82
CD 15⁺	15	54	31.8	-40	-40	[2:2:2]	Cerades™	0.15	2.2	UD 15+	NA*	1/2"	1"	400 x 365 x 1260	15.7 x 14.4 x 49.6	42	93
CD 20⁺	20	72	42.4	-40	-40	[2:2:2]	Cerades™	0.18	2.6	UD 25+	NA*	1/2"	1"	400 x 365 x 1415	15.7 x 14.4 x 55.7	47	104
CD 25⁺	25	90	53.0	-40	-40	[2:2:2]	Cerades™	0.24	3.5	UD 25+	NA*	1/2"	1"	400 x 365 x 1595	15.7 x 14.4 x 62.8	53	117
CD 30⁺	30	108	63.6	-40	-40	[2:2:2]	Cerades™	0.25	3.6	UD 45+	NA*	1/2"	1"	400 x 365 x 1755	15.7 x 14.4 x 69.1	59	130
CD 8⁺	8	28.8	17.0	-20	-5	[2:3:2]	Cerades™	0.08	1.2	UD 15+	NA*	1/2"	1"	400 x 365 x 950	15.7 x 14.4 x 37.4	32	71
CD 16⁺	16	57.6	33.9	-20	-5	[2:3:2]	Cerades™	0.12	1.7	UD 25+	NA*	1/2"	1"	400 x 365 x 1105	15.7 x 14.4 x 43.5	37	82
CD 23⁺	23	82.8	48.7	-20	-5	[2:3:2]	Cerades™	0.17	2.5	UD 25+	NA*	1/2"	1"	400 x 365 x 1260	15.7 x 14.4 x 49.6	42	93
CD 30⁺	30	108	63.6	-20	-5	[2:3:2]	Cerades™	0.25	3.6	UD 45+	NA*	3/4"	1"	400 x 365 x 1415	15.7 x 14.4 x 55.7	47	104
CD 37⁺	37	133.2	78.4	-20	-5	[2:3:2]	Cerades™	0.32	4.6	UD 45+	NA*	3/4"	1"	400 x 365 x 1595	15.7 x 14.4 x 62.8	53	117
CD 44⁺	44	158.4	93.2	-20	-5	[2:3:2]	Cerades™	0.37	5.4	UD 45+	NA*	3/4"	1"	400 x 365 x 1755	15.7 x 14.4 x 69.1	59	130

CD 20⁺-335⁺

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
CD 20⁺	20	72	42.4	-40	-40	[2:2:2]	Cerades™	0.1	1.5	UD 25+	NA*	1/2"	1/2"	394 x 864 x 1205	15.51 x 34.02 x 47.44	95	209
CD 30⁺	30	108	63.6	-40	-40	[2:2:2]	Cerades™	0.1	1.5	UD 45+	NA*	3/4"	3/4"	394 x 864 x 1205	15.51 x 34.02 x 47.44	100	220
CD 40⁺	40	144	84.8	-40	-40	[2:2:2]	Cerades™	0.1	1.5	UD 45+	NA*	3/4"	3/4"	394 x 904 x 1205	15.51 x 35.59 x 47.44	110	243
CD 55⁺	55	198	116.5	-40	-40	[2:2:2]	Cerades™	0.1	1.5	UD 75+	NA*	1"	1"	394 x 904 x 1495	15.51 x 35.59 x 58.86	140	309
CD 65⁺	65	234	137.7	-40	-40	[2:2:2]	Cerades™	0.2	2.9	UD 75+	NA*	1"	1"	394 x 904 x 1495	15.51 x 35.59 x 58.86	165	364
CD 85⁺	85	306	180.1	-40	-40	[2:2:2]	Cerades™	0.2	2.9	UD 110+	NA*	1 1/2"	1 1/2"	394 x 934 x 1835	15.51 x 36.77 x 72.24	165	364
CD 105⁺	105	378	222.5	-40	-40	[2:2:2]	Cerades™	0.1	1.5	UD 110+	NA*	1 1/2"	1 1/2"	564 x 934 x 1495	22.20 x 36.77 x 58.86	215	474
CD 125⁺	125	450	264.9	-40	-40	[2:2:2]	Cerades™	0.1	1.5	UD 145+	NA*	1 1/2"	1 1/2"	564 x 964 x 1495	22.20 x 37.95 x 58.86	234	516
CD 170⁺	170	612	360.2	-40	-40	[2:2:2]	Cerades™	0.2	2.9	UD 180+	NA*	1 1/2"	1 1/2"	564 x 964 x 1835	22.20 x 37.95 x 72.24	276	608
CD 190⁺	190	684	402.6	-40	-40	[2:2:2]	Cerades™	0.2	2.9	UD 240+	NA*	2"	2"	734 x 964 x 1495	28.90 x 37.95 x 58.86	331	730
CD 250⁺	250	900	529.7	-40	-40	[2:2:2]	Cerades™	0.2	2.9	UD 300+	NA*	2"	2"	734 x 1042 x 1835	28.90 x 41.02 x 72.24	389	858
CD 335⁺	330	1188	699.2	-40	-40	[2:2:2]	Cerades™	0.3	4.4	UD 300+	NA*	2"	2"	929 x 1042 x 1835	36.57 x 41.02 x 72.24	500	1102
CD 25⁺	25	90	53.0	-20	-5	[2:3:2]	Cerades™	0.1	1.5	UD 25+	NA*	1/2"	1/2"	394 x 864 x 1205	15.51 x 34.02 x 47.44	95	209
CD 35⁺	35	126	74.2	-20	-5	[2:3:2]	Cerades™	0.1	1.5	UD 45+	NA*	3/4"	3/4"	394 x 904 x 1205	15.51 x 35.59 x 47.44	100	220
CD 50⁺	50	180	105.9	-20	-5	[2:3:2]	Cerades™	0.1	1.5	UD 75+	NA*	1"	1"	394 x 904 x 1205	15.51 x 35.59 x 47.44	110	243
CD 65⁺	65	234	137.7	-20	-5	[2:3:2]	Cerades™	0.2	2.9	UD 75+	NA*	1"	1"	394 x 904 x 1495	15.51 x 35.59 x 58.86	128	282
CD 80⁺	80	288	169.5	-20	-5	[2:3:2]	Cerades™	0.2	2.9	UD 75+	NA*	1"	1"	394 x 934 x 1495	15.51 x 36.77 x 58.86	141	311
CD 105⁺	105	378	222.5	-20	-5	[2:3:2]	Cerades™	0.3	4.4	UD 110+	NA*	1 1/2"	1 1/2"	394 x 934 x 1835	15.51 x 36.77 x 72.24	165	364
CD 125⁺	125	450	264.9	-20	-5	[2:3:2]	Cerades™	0.1	1.5	UD 145+	NA*	1 1/2"	1 1/2"	564 x 964 x 1495	22.20 x 37.95 x 58.86	218	481
CD 150⁺	150	540	317.8	-20	-5	[2:3:2]	Cerades™	0.2	2.9	UD 145+	NA*	1 1/2"	1 1/2"	564 x 964 x 1495	22.20 x 37.95 x 58.86	234	516
CD 195⁺	195	702	413.2	-20	-5	[2:3:2]	Cerades™	0.3	4.4	UD 240+	NA*	2"	2"	564 x 964 x 1835	22.20 x 37.95 x 72.24	277	611
CD 225⁺	225	810	476.7	-20	-5	[2:3:2]	Cerades™	0.2	2.9	UD 240+	NA*	2"	2"	734 x 1042 x 1495	28.90 x 41.02 x 58.86	331	730
CD 300⁺	300	1080	635.7	-20	-5	[2:3:2]	Cerades™	0.3	4.4	UD 300+	NA*	2"	2"	734 x 1042 x 1835	28.90 x 41.02 x 72.24	394	869

** Not applicable for Cerades™*

CD 25+-195+

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
CD 25+	25	90	53.0	-70	-100	[2:1:2]	Beads	0.04	0.6	UD 25+	DDp 25+	1/2"	1/2"	394 x 807 x 1495	15.5 x 31.8 x 58.9	124	273
CD 35+	35	126	74.2	-70	-100	[2:1:2]	Beads	0.07	1.0	UD 45+	DDp 45+	3/4"	3/4"	394 x 827 x 1495	15.5 x 32.6 x 58.9	135	298
CD 45+	45	162	95.3	-70	-100	[2:1:2]	Beads	0.13	1.9	UD 45+	DDp 45+	3/4"	3/4"	394 x 847 x 1835	15.5 x 33.3 x 72.2	158	348
CD 55+	55	198	116.5	-70	-100	[2:1:2]	Beads	0.04	0.6	UD 75+	DDp 75+	1"	1"	564 x 847 x 1495	22.2 x 33.3 x 58.9	208	459
CD 65+	65	234	137.7	-70	-100	[2:1:2]	Beads	0.06	0.9	UD 75+	DDp 75+	1"	1"	564 x 877 x 1495	22.2 x 34.5 x 58.9	224	494
CD 90+	90	324	190.7	-70	-100	[2:1:2]	Beads	0.13	1.9	UD 110+	DDp 110+	1 1/2"	1 1/2"	564 x 907 x 1835	22.2 x 35.7x 72.2	266	586
CD 110+	110	396	233.1	-70	-100	[2:1:2]	Beads	0.08	1.2	UD 110+	DDp 110+	1 1/2"	1 1/2"	734 x 907 x 1495	28.9 x 35.7 x 58.9	320	705
CD 130+	130	468	275.5	-70	-100	[2:1:2]	Beads	0.12	1.7	UD 145+	DDp 145+	1 1/2"	1 1/2"	734 x 907 x 1835	28.9 x 35.7 x 72.2	375	827
CD 165+	165	594	349.6	-70	-100	[2:1:2]	Beads	0.11	1.6	UD 180+	DDp 180+	1 1/2"	1 1/2"	929 x 907 x 1835	36.6 x 35.7 x 72.2	477	1052
CD 195+	195	702	413.2	-70	-100	[2:1:2]	Beads	0.16	2.3	UD 240+	DDp 240+	2"	2"	929 x 907 x 1835	36.6 x 35.7 x 72.2	477	1052

CD 1.5-5

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
CD 1.5	1.5	5.4	3.2	-70	-100	[2:1:2]	Beads	0.02	0.3	UD 7+	Integrated	1/2"	1/2"	182 x 237 x 428	72 x 9.3 x 16.0	7.5	17
CD 3	3	10.8	6.4	-70	-100	[2:1:2]	Beads	0.06	0.9	UD 7+	Integrated	1/2"	1/2"	182 x 237 x 523	72 x 9.3 x 20.6	9.5	21
CD 5	5	18	10.6	-70	-100	[2:1:2]	Beads	0.12	1.7	UD 7+	Integrated	1/2"	1/2"	182 x 237 x 673	72 x 9.3 x 26.5	12.5	28
CD 1.5	1.5	5.4	3.2	-40	-40	[2:2:2]	Beads	0.04	0.6	UD 7+	Integrated	1/2"	1/2"	182 x 237 x 428	72 x 9.3 x 16.0	7.5	17
CD 3	3	10.8	6.4	-40	-40	[2:2:2]	Beads	0.12	1.7	UD 7+	Integrated	1/2"	1/2"	182 x 237 x 523	72 x 9.3 x 20.6	9.5	21
CD 5	5	18	10.6	-40	-40	[2:2:2]	Beads	0.18	2.6	UD 7+	Integrated	1/2"	1/2"	182 x 237 x 673	72 x 9.3 x 26.5	12.5	28

CD 10-20

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m³/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
CD 10	9.7	34.92	20.6	-40	-40	[2:2:2]	Beads	0.088	1.3	UD 15+	DDp 15+	1/2"	1/2"	396 x 363 x 1104	15.5 x 14.2 x 43.4	39	86
CD 15	14.6	52.56	30.9	-40	-40	[2:2:2]	Beads	0.20	2.9	UD 15+	DDp 15+	1/2"	1/2"	396 x 363 x 1259	15.5 x 14.2 x 49.5	45	99
CD 20	20	72	42.4	-40	-40	[2:2:2]	Beads	0.37	5.4	UD 25+	DDp 25+	1/2"	1/2"	396 x 363 x 1414	15.5 x 14.2 x 55.6	51	112
CD 8	8	28.8	17.0	-20	-5	[2:3:2]	Beads	0.06	0.9	UD 15+	DDp 15+	1/2"	1/2"	396 x 363 x 949	15.5 x 14.2 x 37.3	34	75
CD 16	16	57.6	33.9	-20	-5	[2:3:2]	Beads	0.24	3.5	UD 25+	DDp 25+	1/2"	1/2"	396 x 363 x 1104	15.5 x 14.2 x 43.4	40	88
CD 23	23	82.8	48.7	-20	-5	[2:3:2]	Beads	0.497	7.2	UD 25+	DDp 25+	1/2"	1/2"	396 x 363 x 1259	15.5 x 14.2 x 49.5	45	99

CD 25-260

Model	Inlet capacity			Pressure dew point		ISO 8573-1 Class	Desiccant type	Pressure drop excl. filters		Filter size		Connection size Inlet/Outlet		Dimensions (LxWxH)		Weight	
	l/s	m^3/h	cfm	°C	°F			bar	psig	Pre-filter 0.01µm 0.01ppm	After-filter 1µm	Inlet (G/NPT)	Outlet (G/NPT)	mm	inch	kg	lbs
CD 25	25	90	53.0	-40	-40	[2:2:2]	Beads	0.03	0.4	UD 25+	DDp 25+	1/2"	1/2"	401 x 620 x 1070	15.8 x 24.4 x 42.1	87	192
CD 35	35	126	74.2	-40	-40	[2:2:2]	Beads	0.06	0.9	UD 45+	DDp 45+	3/4"	3/4"	401 x 620 x 1115	15.8 x 24.4 x 43.9	88	194
CD 45	45	162	95.3	-40	-40	[2:2:2]	Beads	0.11	1.6	UD 45+	DDp 45+	3/4"	3/4"	401 x 620 x 1285	15.8 x 24.4 x 50.6	99	218
CD 55	55	198	116.5	-40	-40	[2:2:2]	Beads	0.17	2.5	UD 75+	DDp 75+	1"	1"	401 x 620 x 1465	15.8 x 24.4 x 57.7	114	251
CD 65	65	234	137.7	-40	-40	[2:2:2]	Beads	0.25	3.6	UD 75+	DDp 75+	1"	1"	401 x 620 x 1615	15.8 x 24.4 x 63.6	124	273
CD 90	90	324	190.7	-40	-40	[2:2:2]	Beads	0.11	1.6	UD 110+	DDp 110+	1 1/2"	1 1/2"	571 x 620 x 1285	22.5 x 24.4 x 50.6	165	364
CD 110	110	396	233.1	-40	-40	[2:2:2]	Beads	0.17	2.5	UD 110+	DDp 110+	1 1/2"	1 1/2"	571 x 620 x 1465	22.5 x 24.4 x 57.7	197	434
CD 130	130	468	275.5	-40	-40	[2:2:2]	Beads	0.25	3.6	UD 145+	DDp 145+	1 1/2"	1 1/2"	571 x 620 x 1615	22.5 x 24.4 x 63.6	211	465
CD 165	165	594	349.6	-40	-40	[2:2:2]	Beads	0.45	6.5	UD 180+	DDp 180+	1 1/2"	1 1/2"	571 x 620 x 1695	22.5 x 24.4 x 66.7	245	540
CD 195	195	702	413.2	-40	-40	[2:2:2]	Beads	0.25	3.6	UD 240+	DDp 240+	2"	2"	738 x 620 x 1615	29.1 x 24.4 x 63.6	298	657
CD 260	260	936	550.9	-40	-40	[2:2:2]	Beads	0.49	7.1	UD 300+	DDp 300+	2"	2"	738 x 620 x 1915	29.1 x 24.4 x 75.4	328	723
CD 25	25	90	53.0	-20	-5	[2:3:2]	Beads	0.03	0.4	UD 25+	DDp 25+	1/2"	1/2"	401 x 620 x 1070	15.8 x 24.4 x 42.1	87	192
CD 35	35	126	74.2	-20	-5	[2:3:2]	Beads	0.06	0.9	UD 45+	DDp 45+	3/4"	3/4"	401 x 620 x 1115	15.8 x 24.4 x 43.9	87	192
CD 45	45	162	95.3	-20	-5	[2:3:2]	Beads	0.1	1.5	UD 45+	DDp 45+	3/4"	3/4"	401 x 620 x 1285	15.8 x 24.4 x 50.6	88	194
CD 55	55	198	116.5	-20	-5	[2:3:2]	Beads	0.16	2.3	UD 75+	DDp 75+	1"	1"	401 x 620 x 1465	15.8 x 24.4 x 57.7	99	218
CD 65	65	234	137.7	-20	-5	[2:3:2]	Beads	0.24	3.5	UD 75+	DDp 75+	1"	1"	401 x 620 x 1615	15.8 x 24.4 x 63.6	114	251
CD 90	90	324	190.7	-20	-5	[2:3:2]	Beads	0.48	7.0	UD 110+	DDp 110+	1 1/2"	1 1/2"	571 x 620 x 1285	22.5 x 24.4 x 50.6	124	273
CD 110	110	396	233.1	-20	-5	[2:3:2]	Beads	0.16	2.3	UD 110+	DDp 110+	1 1/2"	1 1/2"	571 x 620 x 1465	22.5 x 24.4 x 57.7	165	364
CD 130	130	468	275.5	-20	-5	[2:3:2]	Beads	0.24	3.5	UD 145+	DDp 145+	1 1/2"	1 1/2"	571 x 620 x 1615	22.5 x 24.4 x 63.6	197	434
CD 165	165	594	349.6	-20	-5	[2:3:2]	Beads	0.41	5.9	UD 180+	DDp 180+	1 1/2"	1 1/2"	571 x 620 x 1695	22.5 x 24.4 x 66.7	211	465
CD 195	195	702	413.2	-20	-5	[2:3:2]	Beads	0.24	3.5	UD 240+	DDp 240+	2"	2"	738 x 620 x 1615	29.1 x 24.4 x 63.6	273	602
CD 260	260	936	550.9	-20	-5	[2:3:2]	Beads	0.45	6.5	UD 300+	DDp 300+	2"	2"	738 x 620 x 1915	29.1 x 24.4 x 75.4	298	657

Notes

2935 0939 47 © 2025, **Atlas Copco Airpower NV**, Belgium.
All rights reserved. Designs and specifications are subject to change without notice or obligation. Read all safety instructions in the manual before usage.

Level up your experience at atlascopco.com