

# DESICCANT AIR DRYERS

BD<sup>+</sup> – CD<sup>+</sup> – CD series

Atlas Copco



# 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.



Atlas Copco BD\*, CD\* and CD desiccant dryers



## 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 pressure dewpoint as low as -20 °C (-4 °F), -40 °C (-40 °F) or -70 °C (-100 °F) for complete peace of mind.

### 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 are IP54 compliant, providing 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.
- Dewpoint sensing and control adapt energy consumption to the real load of the dryer.
- An adjustable dewpoint 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 maintenance intervals beyond the standard three years.

### QUALITY AIR APPLICATIONS

Dry and clean compressed air, produced reliably and efficiently, is essential for a broad range of industrial applications.

#### Oil & Gas

Especially off-shore installations require full production protection with a continuous supply of dry compressed air, available 24/7 at a low dewpoint.

#### Food & Beverage

Any kind of moisture must be removed from the preparation and processing of food and beverages to ensure free and easy movement of ingredients and products.

#### Pharmaceuticals

Eliminating any moisture is critical in the processing and manufacturing of most pharmaceuticals as some materials have a physical affinity for moisture.



# HOW DO DESICCANT DRYERS WORK?

Desiccant dryers consist of two towers filled with desiccant such as activated alumina or silica gel. 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<sup>+</sup>** range of blower purge dryers and the **CD<sup>(+)</sup>** 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<sup>(+)</sup>:

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 purge desiccant dryers – BD<sup>+</sup>:

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<sup>+</sup>)

### BD<sup>+</sup> with purge:

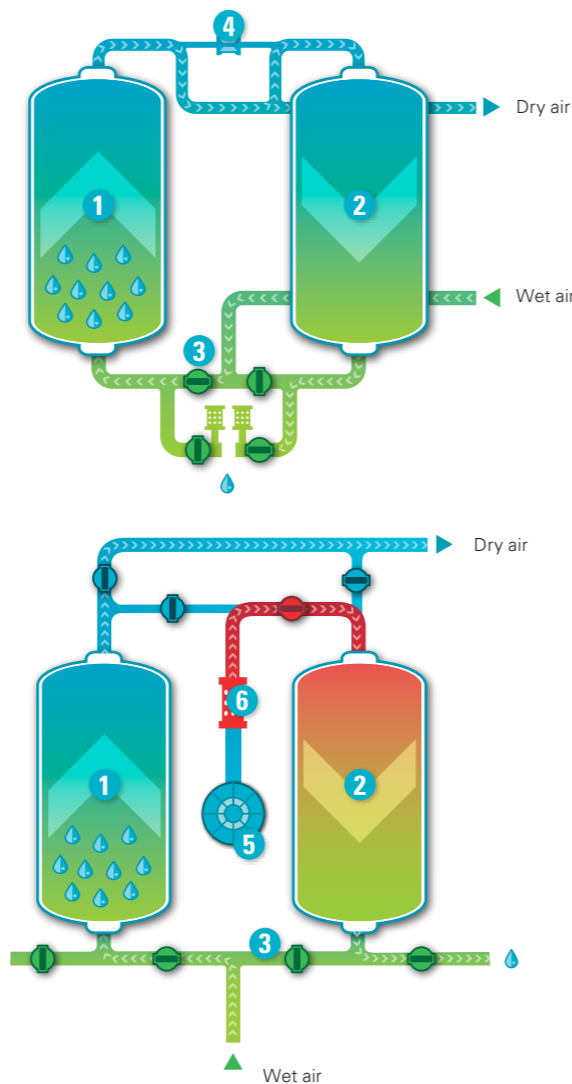
After the heating phase, the desiccant is cooled by expanding dry compressed air from the outlet of the adsorbing vessel over the hot reactivated tower.

### BD<sup>+</sup> 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

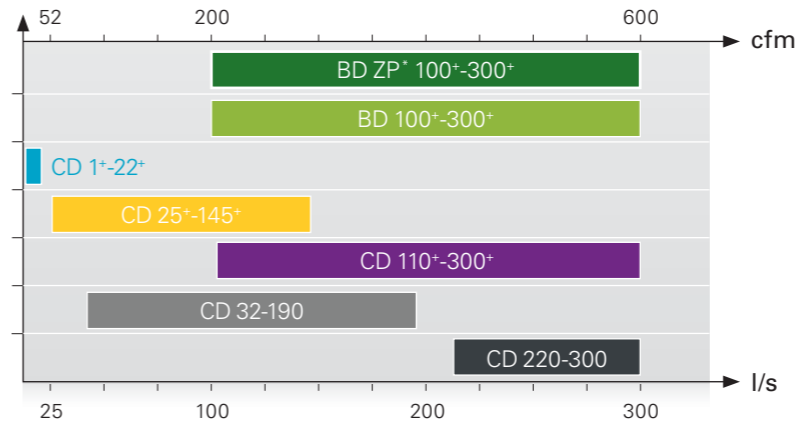
After regeneration, drying switches from the saturated tower to the regenerated tower (3).



# WHICH ATLAS COPCO DESICCANT DRYER IS RIGHT FOR YOU?

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

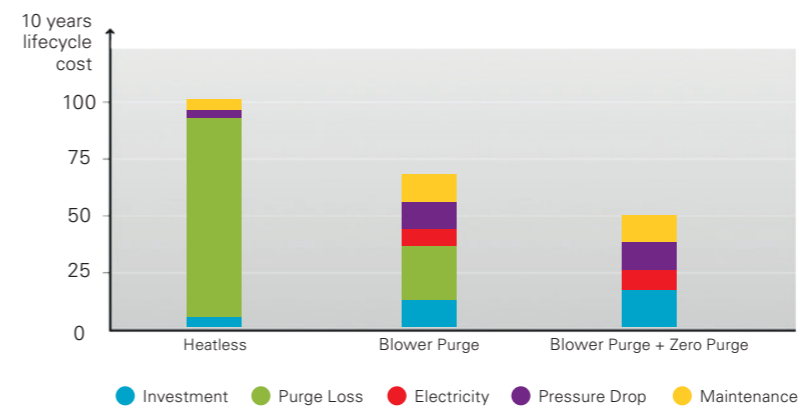
## ATLAS COPCO DESICCANT DRYER RANGE



\*BD ZP: BD<sup>+</sup> Zero Purge 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 15% of the rated flow capacity of a heatless dryer. However, the heatless dryer remains a popular choice because of its simplicity and reliability.



## 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<sup>+</sup> and CD<sup>(+)</sup> 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.

**DEWPOINT DEPENDENT SWITCHING FOR ENERGY SAVINGS UP TO 90%**

Atlas Copco's BD<sup>+</sup> and CD<sup>(+)</sup> desiccant dryers incorporate state-of-the-art energy management control with built-in Dewpoint Dependent Switching. The principle is simple. A dewpoint sensor will delay switching towers until dryer conditions require it. This delayed process 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 dewpoint 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 ensures a long 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 airtight from desiccant dust and network contamination.
- Can be mounted directly on the inlet and outlet of the dryer for 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 DEWPOINT DEPENDENT SWITCHING

- Real pressure dewpoint monitoring (hygrometer).
- Pressure dewpoint (and alarm).
- The dryer will only switch to the next tower when the desiccant is saturated, as measured by the dewpoint input. During that delay, the dryer consumes no energy.



#### 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 25<sup>+</sup>-145<sup>+</sup>

### Reliable drying & all-in-one design

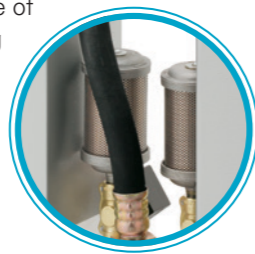


#### 1 HIGH-PERFORMANCE DESICCANT BAGS

- Pressure dewpoint of -40 °C/-40 °F as standard (-70 °C/-100 °F optional).
- Overfilled desiccant bags protect against desiccant aging and overflow peak.
- Horizontal installation is possible.

#### 2 OVERSIZED 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.



#### 3 HIGH-QUALITY VALVE BLOCK

The valve block is designed with few moving parts to minimize pressure drop and increase reliability.

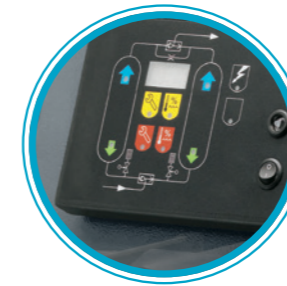
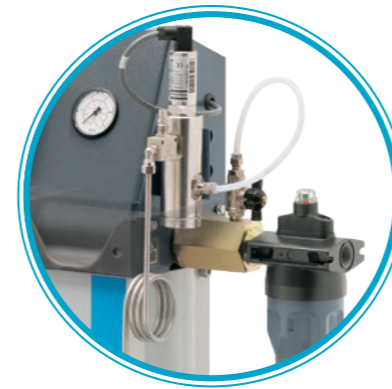
#### 7 DEWPOINT DEPENDENT SWITCHING (OPTIONAL)

- Real pressure dewpoint monitoring (hygrometer).
- Pressure dewpoint display on controller (and alarm).
- The dryer will only switch to the next tower when the desiccant is saturated, as measured by the dewpoint input. During that delay, the dryer consumes no energy.



#### 4 CORROSION-PROOF DESIGN

Base, heads, panels, valves and extrusion profiles are protected from corrosion to increase dryer lifetime.



#### 6 ADVANCED CONTROL AND MONITORING

- Timer controlled cycles to reach dewpoint target even at 100% load.
- Auto restart after power failure with cycle status memory.
- Full status on LEDs, display and pressure gauges.
- Remote alarm and control.
- Purge saver: the dryer can freeze the purge cycle in case of unload/stop signal.
- The IP54 cubicle protects controls from water and dust.

#### 5 FILTERS

- Pre-filters prevent 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 low pressure drop.
- Easy to assemble and maintain. No extra piping and filter connections are required.

## CD 1<sup>+</sup>-22<sup>+</sup>

### The compact solution

- 1 High-quality components designed for low pressure drop and increased reliability provide fail-safe operation.
- 2 Filled with high-performance molecular sieves to allow for various pressure dewpoints (-40 °C/-40 °F and -70 °C/-100 °F). Overfilled cartridges protect against desiccant aging and overflow peaks. Integrated after-filters ensure fast and clean maintenance.
- 3 Multi-port inlet and outlet provide easy connection to the air system. The dryer can be installed vertically or horizontally.
- 4 Integrated silencers minimize noise.
- 5 Full electronic controller with purge saver function. The sophisticated electrical panel is IP65-protected against water and dust.



## FEATURES AND BENEFITS

### Enduring performance

- Non-return valves and purge cavities are built into the polycarbonate cartridges.
- Each desiccant cartridge includes an integrated after-filter to save space, simplify installation and decrease the risk of leaks.
- The dryer can perform in working pressures up to 16 bar(g)/232 psig and temperatures up to 50 °C/122 °F.

### Energy efficiency and savings

- Low pressure drop across the whole range.
- Purge saver function is included as standard.
- Adjustable purge, available as an option, matches purge air consumption to the actual working conditions.

### Easy operation

- Controller shows the dryer/cycle status and automatic fault diagnosis.
- No need to disconnect the dryer from the compressed air network for servicing.
- The inlet and outlet can be reversed. The dryer can be operated remotely.

## CD 110<sup>+</sup>-300<sup>+</sup>

### State-of-the art & consistent performance

#### 1 QUALITY DESICCANT

- Pressure dewpoint 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.

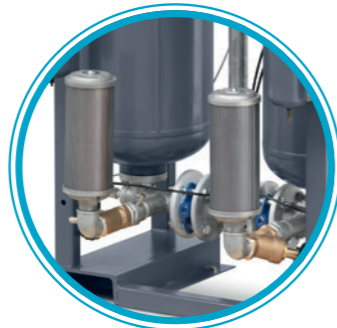


#### 2 STAINLESS STEEL VALVES

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

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- 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 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 DEWPOINT DEPENDENT SWITCHING

- Real pressure dewpoint monitoring (hygrometer).
- Pressure dewpoint (and alarm).
- The dryer will only switch to the next tower when the desiccant is saturated, as measured by the dewpoint input. During that delay, the dryer consumes no energy.



#### 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.

## CD 32-190

### Superb cost efficiency & steadfast performance

#### STRONG PERFORMANCE

The CD 32-190 offers a pressure dewpoint of -40 °C/-40 °F and a working pressure of 4 to 14.5 bar(e)/58 to 210 psig. Its easy controls allow for straightforward operation.

#### ALWAYS RELIABLE

The quality components of the CD 32-190 ensure a dependable performance, even in demanding conditions. Thanks to the high-grade desiccant and superior valves, scheduled maintenance only needs to happen every three years.



- 1 Robust shuttle valve for efficient switching.
- 2 Timer card control to save purge air.
- 3 Integrated silencers minimize noise.
- 4 Inlet and outlet filtration for compliance with ISO 7183:2010 class 1.2.1.
- 5 Desiccant with excellent mechanical properties for a long life.
- 6 Small footprint for space-saving installation.
- 7 Selected purge nozzle for top performance.
- 8 LED display with power on, in operation and service indicators.
- 9 Pressure gauges in the outlets of both towers.



## CD 220-300

### Competitive investment & superb efficiency

#### SUPERIOR RELIABILITY

Durable components designed for increased performance and reliable operation in harsh environments.

#### COMPETITIVE PERFORMANCE

A pressure dewpoint of -40 °C/-40 °F combined with simple and easy controls ensure optimal operation.

#### MINIMAL MAINTENANCE

Three-year maintenance intervals thanks to high-grade desiccant and quality valves.



- 1 Butterfly valves with actuator for high switching efficiency.
- 2 Forklift slot for easy manipulation.
- 3 Timer card control minimizes air purge and energy consumption.
- 4 Silencer for low blow-off noise and reduced sound levels.
- 5 Inlet/outlet filters (DD, PD, DDp) to protect against contamination from dust, water and oil aerosols.
- 6 Desiccant with very efficient adsorption.
- 7 Stainless steel, corrosion-free non-return valve.
- 8 Purge nozzle ensures stable pressure dewpoint.



## FEATURES AND BENEFITS

### Enduring performance

- Innovative pipe and valve design for operating stability, efficiency and a limited pressure drop.
- Filled with high-performance desiccant for a stable dewpoint of -40 °C/-40 °F.

### Energy efficiency and savings

- Purge saver contact (timer controlled as standard) decreases the air purge consumption proportionally with the load cycle of the compressor, significantly reducing running costs.
- Low lifecycle cost with limited maintenance intervals thanks to highly efficient desiccant and high-quality valves.

### Easy operation

- Easy installation and simple control thanks to Atlas Copco's all-in-one concept delivered ready for use.
- Forklift slot for easy handling.

## FEATURES AND BENEFITS

### Enduring performance

- Innovative pipe and valve design for operating stability, efficiency and a limited pressure drop.
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# TECHNICAL SPECIFICATIONS

## BD 100+ - 300+

Type	Cooling mode	Inlet capacity FAD 7 bar(e)/100 psig			Average power consumption		Pressure drop excluding filters		Filter size		Connection size inlet/outlet	Dimensions (L x W x H)		Weight	
		l/s	m³/h	cfm	kW	hp	bar(e)	psig	Pre-filter	After-filter		mm	inch	kg	lbs
									0.01 µm 0.01 ppm	1 µm					
BD 100+	Purge	100	360	212	3	4.0	0.20	2.90	UD140+	DDp130+	1 1/2"	1131 x 896 x 1855	45 x 35 x 73	394	869
BD 150+	Purge	150	540	318	3	4.0	0.20	2.90	UD180+	DDp170+	1 1/2"	1311 x 966 x 1891	52 x 38 x 74	511	1127
BD 185+	Purge	185	666	392	5	6.7	0.20	2.90	UD220+	DDp210+	1 1/2"	1311 x 966 x 1891	52 x 38 x 74	547	1206
BD 250+	Purge	250	900	530	5.5	7.4	0.20	2.90	UD310+	DDp310+	2"	1444 x 1098 x 1969	57 x 43 x 78	689	1519
BD 300+	Purge	300	1080	636	5.5	7.4	0.20	2.90	UD310+	DDp310+	2"	1434 x 1123 x 2006	56 x 44 x 79	777	1713
BD 100+ ZP	Zero Purge	100	360	212	3	4.0	0.20	2.90	UD140+	DDp130+	1 1/2"	1131 x 840 x 1690	45 x 33 x 67	346	763
BD 150+ ZP	Zero Purge	150	540	318	3.4	4.6	0.20	2.90	UD180+	DDp170+	1 1/2"	1311 x 971 x 1706	52 x 38 x 67	457	1008
BD 185+ ZP	Zero Purge	185	666	392	5	6.7	0.20	2.90	UD220+	DDp210+	1 1/2"	1311 x 971 x 1706	52 x 38 x 67	496	1093
BD 250+ ZP	Zero Purge	250	900	530	6.4	8.6	0.20	2.90	UD310+	DDp310+	2"	1444 x 1002 x 1791	57 x 39 x 71	632	1393
BD 300+ ZP	Zero Purge	300	1080	636	6.4	8.6	0.20	2.90	UD310+	DDp310+	2"	1434 x 1088 x 1828	56 x 43 x 72	736	1623

**Reference conditions BD\*:** Performance data per ISO 7183:2007. Compressor air inlet temperature: 35 °C/100 °F. Inlet relative humidity: 100%.

**Reference conditions BD\* ZP (Zero Purge):** Performance data per ISO 7183:2007. Ambient air temperature: 25 °C-77 °F. Ambient air relative humidity: 60%.

## OPTIMIZE YOUR SYSTEM Included as standard

### Air circuit

- Stainless steel butterfly valves\*
- Galvanized in- and outlet piping\*
- In- and outlet air flanges
- Insulated heater pipe and connection pipe to vessels (only on BD\*)

### Electrical components

- Pre-mounted electrical cubicle
- Elektronikon® control and monitoring system\*\*
- IP54 protected
- Voltage-free contacts for remote alarm and warning signals
- Pressure dewpoint sensor and controls\*\*

### Framework

- Base frame with forklift slots
- Lifting holes\*

### Mechanical approvals

- ASME
- ML (AS1210)
- CE
- MOM
- MOL
- SQL
- TÜV

\* Not on CD 25+-145+ \*\* Not on CD 25+-145+, CD 110+-300+ with timer control

## ADDITIONAL FEATURES AND OPTIONS

Options	CD 25+-145+	CD 110+-300+	BD 100+-300+	
			Purge	Zero Purge
Maximum working pressure 14.5 bar(e)/210 psig	■	■	■	■
-70 °C/-100 °F pressure dewpoint	●	●	●	-
Pre- and after-filter package for GA oil-injected compressor*	■	■	■	■
Pressure relief valves (not on CD* 50 Hz versions)	-	●/■	■	■
Sonic nozzle	-	●	■	■
Dryer tower insulation	-	-	●	■
Optimized purge nozzle (4-5-5-8-5-10 bar(e)/58-80-123-145 psig)	■	●	●	●
Blower inlet filter	-	-	●	●
IP65 cubicle	●	-	-	-
NEMA 4 cubicle	-	●	●	●
NEMA4X cubicle	●	-	-	●
Reversed in - outlet piping	-	●	●	●
Pneumatic control	-	●	-	-
Wall mounting set	●	-	-	-
Dp switch on filters	-	●	■	■

■ = standard ● = optional - = not available

## CD 1+-22+

Type	Inlet capacity FAD 7 bar(e)/100 psig			Pressure drop excluding filters		Filter size		Dimensions (L x W x H)		Weight	
	l/s	m³/h	cfm	bar(e)	psig	Pre-filter		mm	inch	kg	lbs
						0.01 µm 0.01 ppm	1 µm				
CD 1+	1	3.6	2.1	0.01	0.15	PD3+		106 x 197 x 540	4.2 x 8 x 21.2	7	15.4
CD 1.5+	1.5	5.4	3.2	0.02	0.29	PD3+		106 x 197 x 590	4.2 x 8 x 23.2	8	17.6
CD 2+	2	7.2	4.2	0.04	0.58	PD3+		106 x 197 x 720	4.2 x 8 x 28.3	9	19.8
CD 2.5+	2.5	9.0	5.2	0.06	0.87	PD3+		106 x 197 x 835	4.2 x 8 x 32.9	10	22
CD 3+	3	10.8	6.4	0.09	1.30	PD3+		106 x 197 x 855	4.2 x 8 x 33.7	11	24.3
CD 5+	5	18.0	10.6	0.08	1.16	PD10+		149 x 320 x 640	5.9 x 13 x 25.2	19	41.8
CD 7+	7	25.2	14.8	0.015	0.22	PD10+		149 x 320 x 725	5.9 x 13 x 28.5	22	48.5
CD 10+	10	36.0	21.2	0.038	0.55	PD10+		149 x 320 x 875	5.9 x 13 x 34.4	25	55.1
CD 12+	12	43.2	25.4	0.06	0.87	PD20+		149 x 320 x 1015	5.9 x 13 x 39.9	29	63.9
CD 17+	17	61.2	36.0	0.06	0.87	PD20+		149 x 320 x 1270	5.9 x 13 x 49.9	35	77.2
CD 22+	22	79.2	46.6	0.19	2.76	PD20+		149 x 320 x 1505	5.9 x 13 x 59.3	44	97

## CD 25+-145+

Type	Inlet capacity FAD 7 bar(e)/100 psig			Pressure drop excluding filters		Filter size			Connection size inlet/outlet	Dimensions (L x W x H)		Weight	
	l/s	m³/h	cfm	bar(e)	psig	Pre-filters		After-filter		mm	inch	kg	lbs
						1 µm 0.1 ppm	0.01 µm 0.01 ppm	1 µm					
CD 25+	25	90	53	0.06	0.87	DD35+	PD35+	DDp35+	1/2"	550 x 201 x 1233	21.7 x 7.9 x 48.5	50	110
CD 30+	30	108	64	0.09	1.31	DD35+	PD35+	DDp35+	1/2"	550 x 201 x 1233	21.7 x 7.9 x 48.5	50	110
CD 35+	35	126	74	0.10	1.45	DD35+	PD35+	DDp35+	1/2"	550 x 201 x 1478	21.7 x 7.9 x 58.2	60	132
CD 50+	50	180	106	0.32	4.64	DD70+	PD70+	DDp70+	1"	550 x 201 x 1846	21.7 x 7.9 x 72.7	80	176
CD 60+	60	216	127	0.12	1.74	DD70+	PD70+	DDp70+	1"	550 x 364 x 1233	21.7 x 14.3 x 48.5	100	220
CD 70+	70	252	148	0.20	2.90	DD70+	PD70+	DDp70+	1"	550 x 364 x 1479	21.7 x 14.3 x 58.2	120	265
CD 80+	80	288	170	0.20	2.90	DD130+	PD130+	DDp130+	1 1/2"	550 x 364 x 1846	21.7 x 14.3 x 72.7	160	353
CD 100+	100	360	212	0.30	4.35	DD130+	PD130+	DDp130+	1 1/2"	550 x 364 x 1846	21.7 x 14.3 x 72.7	160	353
CD 145+	145	522	307	0.30	4.35	DD170+	PD170+	DDp170+	1 1/2"	550 x 526 x 1846	21.7 x 20.7 x 72.7	240	529

## CD 110+-300+

Type	Inlet capacity FAD 7 bar(e)/100 psig			Pressure drop excluding filters		Filter size		Connection size inlet/outlet	Dimensions (L x W x H)		Weight	
	l/s	m³/h	cfm	bar(e)	psig	Pre-filter			mm	inch	kg	lbs
						0.01 µm 0.01 ppm	1 µm					
CD 110+	107	385	227	0.09	1.31	UD140+	DDp130+	1 1/2"	950 x 728 x 1695	37.5 x 28.7 x 66.7	340	750
CD 150+	150	540	318	0.16	2.32	UD180+	DDp170+	1 1/2"	1089 x 848 x 1731	42.9 x 33.4 x 68.1	415	915
CD 185+	185	666	392	0.10	1.45	UD220+	DDp210+	1 1/2"	1089 x 848 x 1731	42.9 x 33.4 x 68.1	445	981
CD 250+	250	900	530	0.09	1.31	UD310+	DDp310+	2"	1106 x 960 x 1816	43.5 x 37.8 x 71.5	600	1323
CD 300+	300	1080	636	0.10	1.45	UD310+	DDp310+	2"	1173 x 1116 x 1854	46.2 x 43.9 x 73.0	650	1433

## CD 32-190

Type	Inlet capacity FAD 7 bar(e)/100 psig			Pressure drop excluding filters		Filter size			Connection size inlet/outlet	Dimensions (L x W x H)		Weight	
	l/s	m³/h	cfm	bar(e)	psig	Pre-filters		After-filter		mm	inch	kg	lbs
						1 µm 0.1 ppm	0.01 µm 0.01 ppm	1 µm					
CD 32	32	115	68	0.06	0.87	*	PD35+	DDp35+	1"	239 x 550 x 998	9.5 x 21.7 x 39.3	64	141.1
CD 40	40	144	85	0.10	1.45	*	PD50+	DDp50+	1"	239 x 550 x 998	9.5 x 21.7 x 39.3	64	141.1
CD 45	45	162	95	0.10	1.45	*	PD50+	DDp50+	1"	239 x 550 x 1243	9.4 x 21.7 x 48.9	78	171.9
CD 65	65	234	138	0.29	4.21	*	PD70+	DDp70+	1"	239 x 550 x 1611	9.4 x 21.7 x 63.4	98	216.0
CD 75	75	270	159	0.09	1.31	*	PD70+	DDp70+	1"	358 x 550 x 998	14.1 x 21.7 x 39.3	133	293.1
CD 90	90	324	191	0.16	2.32	*	PD130+	DDp130+	1"	358 x 550 x 1243	14.1 x 21.7 x 48.9	158	348.2
CD 105	105	378	222	0.20	2.90	*	PD130+	DDp130+	1"	358 x 550 x 1611	14.1 x 21.7 x 63.4	256	564.2
CD 130	130	468	275	0.24	3.48	*	PD130+	DDp130+	1"	358 x 550 x 1611	14.1 x 21.7 x 63.4	256	564.2
CD 160	160	576	339	0.25	3.63	*	PD170+	DDp170+	1 1/2"	520.8 x 550 x 1611	20.5 x 21.7 x 63.4	310	683.2
CD 190	190	684	403	0.27	3.92	*	PD210+	DDp210+	1 1/2"	520.8 x 550 x 1611	20.5 x 21.7 x 63.4	310	683.2

\* Optional **Reference conditions:** Compressed air inlet temperature: 35 °C/100 °F. Compressed air inlet pressure: 7 bar(e)/102 psig. Inlet relative humidity: 100%. Pressure dewpoint: -40 °C/-40 °F.

## CD 220-300

Type	Inlet capacity FAD 7 bar(e)/100 psig			Pressure drop excluding filters		Filter size			Dimensions (L x W x H)		Weight	
	l/s	m³/h	cfm	bar(e)	psig	Pre-filters		After-filter	mm	inch	kg	lbs
						1 µm 0.1 ppm	0.01 µm 0.01 ppm	1 µm				
CD 220	220	792	466	0.36	5.22	DD210+	PD210+	DDp210+	840 x 1040 x 1760	33.1 x 40.9 x 69.3	445	981.1
CD 300	300	1080	635	0.25	3.63	DD310+	PD310+	DDp310+	894 x 1046 x 1876	35.2 x 41.2 x 73.9	600	1322.8

**Reference conditions:** Compressed air inlet temperature: 35 °C/100 °F. Compressed air inlet pressure: 7 bar(e)/102 psig. Inlet relative humidity: 100%. Pressure dewpoint: -40 °C/-40 °F.



## ***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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