

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)



Atlas Copco





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 $-70^{\circ}\text{C}/100^{\circ}\text{F}$.



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 $-70^{\circ}\text{C}/-100^{\circ}\text{F}$, Atlas Copco desiccant dryers eliminate system failures, production downtime and costly repairs.



HIGHEST RELIABILITY

- A constant pressure dewpoint down to $-70^{\circ}\text{C}/-100^{\circ}\text{F}$ 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:

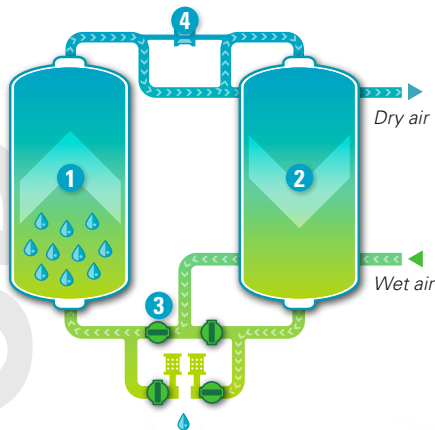
- Heatless dryers use only compressed air as a purge.
- Blower purge dryers use a combination of air from an external blower and heat.
- Heat of compression dryers use the heat of the compression.

THE DRYING PROCESS

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

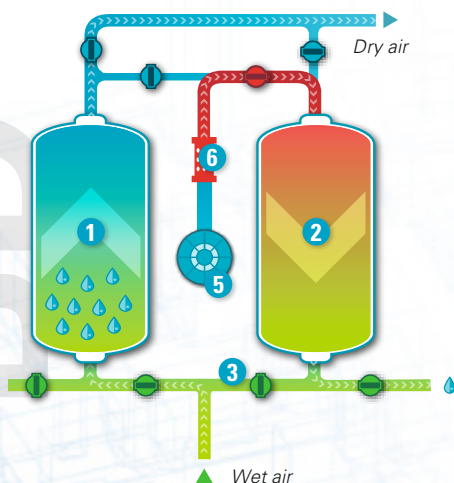
THE REGENERATION PROCESS

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

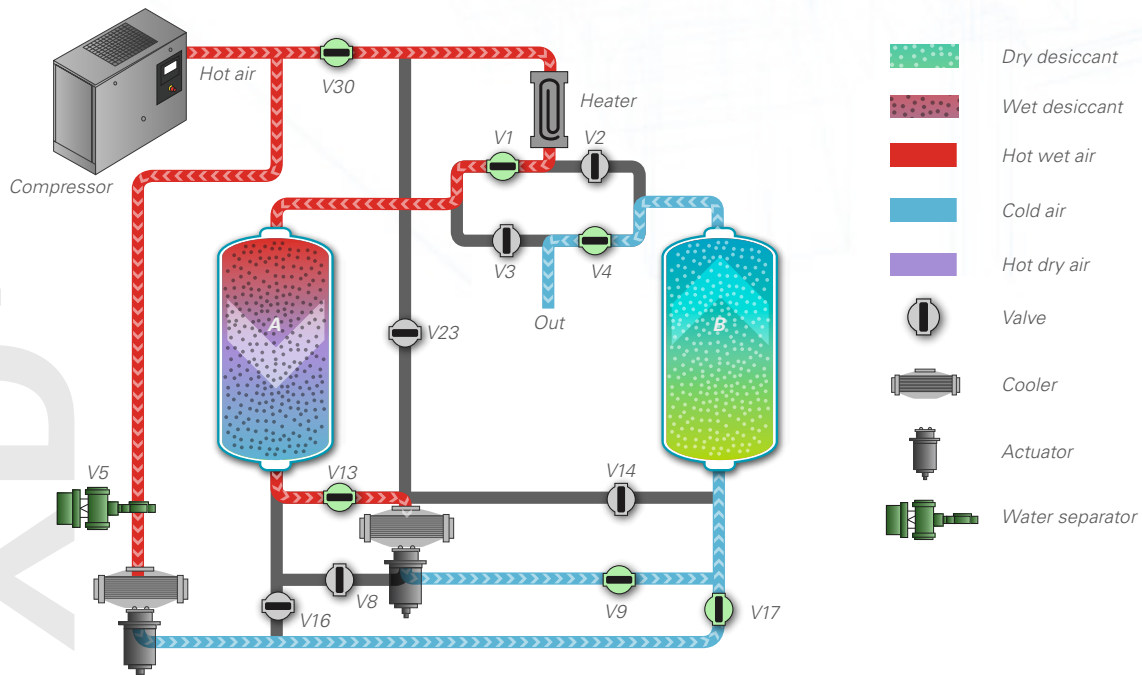
- **Zero purge:** After the heating, the hot tower desiccant is cooled. Cooling is done by sending air from the hot vessel over a cooler and back into the hot tower, from bottom to top.
- **Purge:** After the heating, the hot tower desiccant is cooled. Cooling is done by expanding dry compressed air 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)



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 $-40^{\circ}\text{C}/-40^{\circ}\text{F}$ and $-70^{\circ}\text{C}/-100^{\circ}\text{F}$. Four types of desiccant dryer are widely used throughout industry: heatless, heated purge, heated blower purge and heat of compression.

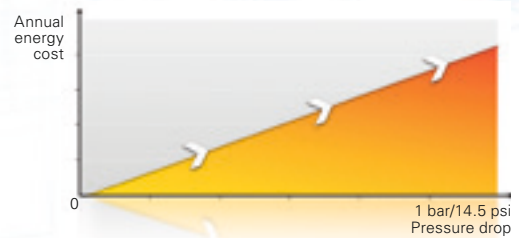
- **Heatless dryers** use a small portion of the dried compressed air for regeneration.
- **Heated purge dryers** use a small and heated portion of the dried compressed air for regeneration.
- **Heated blower purge dryers** use heated ambient air for regeneration.
- **Heat of compression desiccant dryers** 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

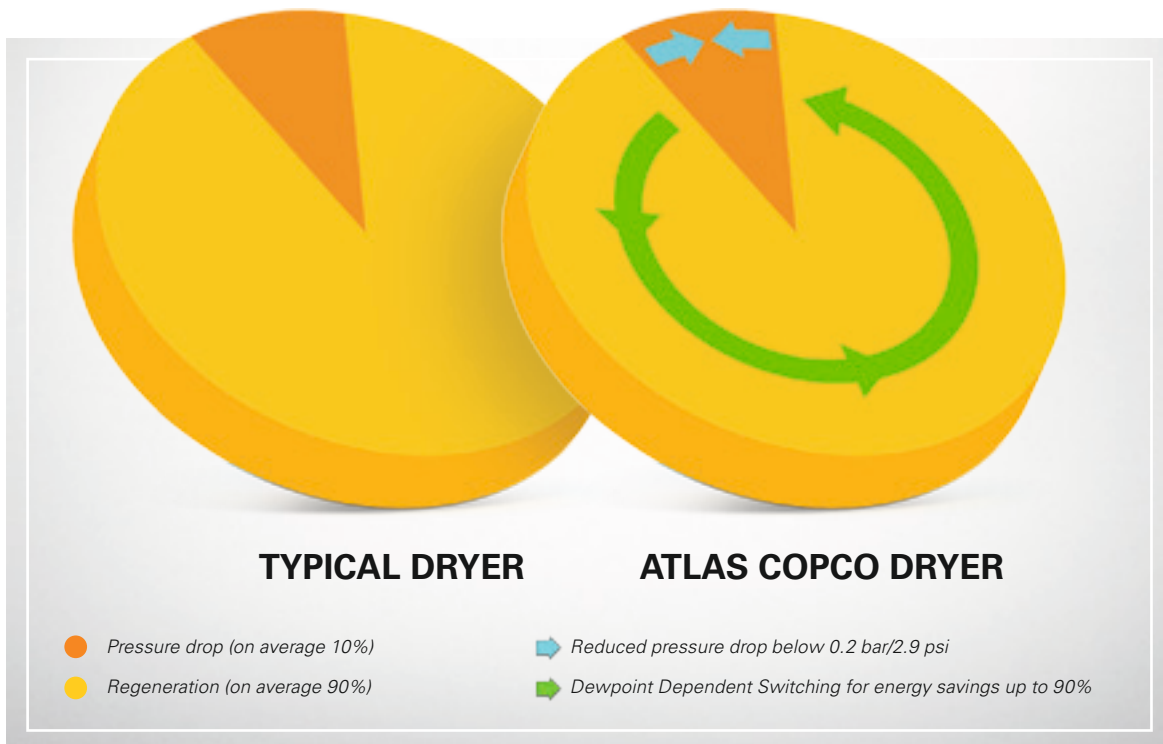
If a desiccant dryer experiences a high internal pressure drop, the compressor discharge pressure must be set higher than required, which wastes energy and increases operating costs. Atlas Copco has therefore put considerable efforts into minimizing pressure drops in its dryers. The result is that most 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

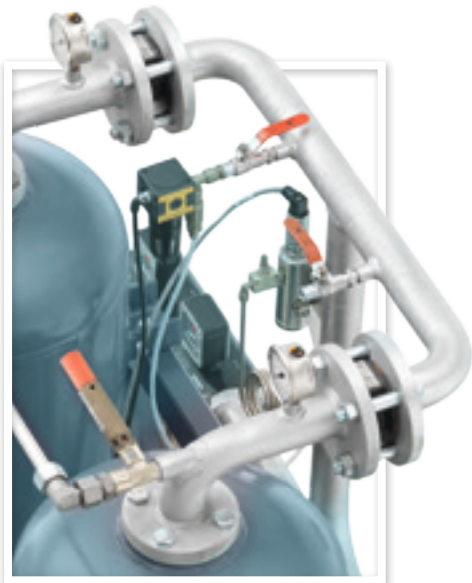
- Fully stainless steel high-performance butterfly valves with actuators ensure long lifetime.



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.





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

- 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 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.



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.

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 overflow 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.





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

- Fitted inside a real IP54 cubicle for easy cabling and safety.
- Monitoring all parameters to ensure maximum reliability of installation.



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.

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.

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
	Galvanised in- and outlet piping
	In- and outlet air flanges
	Insulated heater pipe and connection pipe to vessels*
Connections	DIN-flanges
	ANSI-flanges
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 control
Framework	Base frame with forklift slots
	Lifting holes
Mechanical approval	PED approval
	ASME approval

* Not on CD*

ADDITIONAL FEATURES & OPTIONS

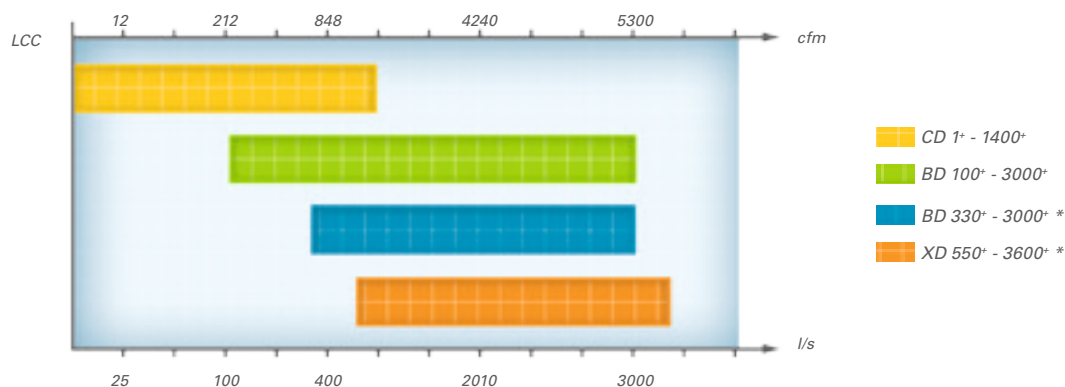
	CD1* - CD25*	CD25* - CD145*	CD100* - CD300*	CD330* - CD1400*	BD100 - BD300	BD330* - BD3000*		XD 550* - XD 3600*
					Purge	Purge	Zero Purge	
Maximum working pressure 10 bar(g)	-	-	-	-	-	-	-	✓
Maximum working pressure 14.5 bar(e)/210 psig	-	✓	○	○	✓	○	○	-
PDP sensor and control	○	✓	✓	✓	✓	✓	✓	✓
2nd PDP read out	-	-	-	○	-	○	○	○
-70°C/-100°F pressure dewpoint	-	○	○	○	○	-	○	-
Pre- and after-filter package for GA oil-injected compressors	-	✓	✓	○	✓	○	○	-
Pre- and after-filter package for Z oil-free compressors	-	-	-	○	-	○	○	-
After-filter package	-	-	-	-	-	-	-	○
Pressure relief valves	-	-	-/✓	○	✓	○	○	✓
Sonic nozzle	-	-/○	○	○	○	○	○	○
GSM connect	-	-	-	○	-	○	○	-
High inlet temperature variant	-	-	○	○	-	○	○	-
High ambient temperature variant	-	-	-	-	-	○	○	○
Dryer tower insulation	-	-	-	-	○	○	○	○
Optimized purge nozzle (4/5.5/8.5/10 bar(e) - 58/80/123/145 psig)	-	✓	○	○	-	○	-	-
Blower inlet filter	-	-	-	-	○	○	○	-
External pilot air connection for low pressure inlet	-	-	-	-	-	○	○	○

- : Not available

✓ : Standard

○ : Optional

Dessicant dryer range



* Zero purge cooling

Technical specifications

HEATLESS DESICCANT DRYERS

DRYER TYPE	Inlet flow FAD 7bar(e)/ 100 psig(1)			Pressure drop (excluding filters)		Inlet / outlet connections 50 Hz: G/PN16 60 Hz: NPT/DN	Filter sizes (recommended)			Dimensions						Weight	
	l/s	m³/hr	cfm	bar	psi		Pre-filters		After-filter	mm			in			kg	lbs
							1 µm 0.1 ppm	0.01 µm 0.01 ppm	1 µm	L	W	H	L	W	H		
CD 1+	1	4	2	0.2	2.90	1/4"	N.A.	PD3	Integrated	106	172	540	7	4	21	7	15
CD 1.5+	1.5	5	3	0.2	2.90	1/4"	N.A.	PD3	Integrated	106	172	590	7	4	23	8	17
CD 2+	2	8	4	0.2	2.90	1/4"	N.A.	PD3	Integrated	106	172	720	7	4	28	9	19
CD 2.5+	2.5	9	5	0.2	2.90	1/4"	N.A.	PD3	Integrated	106	172	830	7	4	32	10	22
CD 3+	3	11	6	0.2	2.90	1/4"	N.A.	PD3	Integrated	106	172	855	7	4	33	11	24
CD 5+	5	18	11	0.2	2.90	1/2"	N.A.	PD9	Integrated	149	295	640	11	6	25	19	41
CD 7+	7	25	15	0.2	2.90	1/2"	N.A.	PD9	Integrated	149	295	730	11	6	28	22	48
CD 10+	10	36	21	0.2	2.90	1/2"	N.A.	PD9	Integrated	149	295	875	11	6	34	25	55
CD 12+	12	43	25	0.2	2.90	1/2"	N.A.	PD17	Integrated	149	295	1015	11	6	40	29	63
CD 17+	17	61	36	0.2	2.90	1/2"	N.A.	PD17	Integrated	149	295	1270	11	6	50	35	77
CD 22+	22	79	47	0.35	5.08	1/2"	N.A.	PD17	Integrated	149	295	1505	11	6	59	44	97
CD 25+	25	90	53	0.06	0.87	1/2"	DD32	PD32	DDp32	550	201	1233	21.7	7.9	48.5	50	110
CD 30+	30	108	64	0.085	1.23	1/2"	DD32	PD32	DDp32	550	201	1233	21.7	7.9	48.5	50	110
CD 35+	35	126	74	0.095	1.38	1/2"	DD32	PD32	DDp32	550	201	1478	21.7	7.9	58.2	60	132
CD 50+	50	180	106	0.35	5.08	1"	DD60	PD60	DDp60	550	201	1846	21.7	7.9	72.7	80	176
CD 60+	60	216	127	0.12	1.74	1"	DD60	PD60	DDp60	550	364	1233	21.7	14.3	48.5	100	220
CD 70+	70	252	148	0.16	2.32	1"	DD60	PD60	DDp60	550	364	1479	21.7	14.3	58.2	120	265
CD 80+	80	288	170	0.12	1.74	1 1/2"	DD120	PD120	DDp120	550	364	1846	21.7	14.3	72.7	160	353
CD 100+	100	360	212	0.35	5.08	1 1/2"	DD120	PD120	DDp120	550	364	1846	21.7	14.3	72.7	160	353
CD 145+	145	522	307	0.35	5.08	1 1/2"	DD150	PD150	DDp150	550	526	1846	21.7	20.7	72.7	240	529
CD 110+	110	396	233	0.12	1.74	1 1/2"	DD120	PD120	DDp120	950	728	1695	37.4	28.7	66.7	340	750
CD 150+	150	540	318	0.16	2.32	1 1/2"	DD150	PD150	DDp150	1089	848	1731	42.9	33.4	68.1	415	915
CD 185+	185	666	392	0.2	2.90	1 1/2"	DD175	PD175	DDp175	1089	848	1731	42.9	33.4	68.1	445	981
CD 250+	250	900	530	0.14	2.03	2"	DD280	PD280	DDp280	1106	960	1816	43.5	37.8	71.5	600	1323
CD 300+	300	1080	636	0.19	2.76	2"	DD280	PD280	DDp280	1173	1116	1854	46.2	43.9	73.0	650	1433
CD 330+	330	1188	700	0.1	1.45	DN80	DD425+	PD425+	DDp425+	1088	1776	2537	43	69.92	99.88	950	2109
CD 400+	400	1440	848	0.1	1.45	DN80	DD425+	PD425+	DDp425+	1088	1776	2537	43	69.92	99.88	1030	2287
CD 550+	550	1980	1166	0.1	1.45	DN80	DD550+	PD550+	DDp550+	1091	1884	2592	43	74.17	102	1310	2908
CD 850+	850	3060	1802	0.1	1.45	DN100	DD850+	PD850+	DDp850+	1259	2359	2655	50	92.87	104.5	2120	4706
CD 1100+	1100	3960	2332	0.1	1.45	DN100	DD1100+	PD1100+	DDp1100+	1259	2472	2637	50	97.32	103.8	2600	5772
CD 1400+	1400	5040	2968	0.11	1.60	DN125	DD1400+	PD1400+	DDp1400+	1428	2693	2576	56	106	101.4	3700	8215

BLOWER PURGE DESICCANT DRYERS

DRYER TYPE	Inlet flow FAD 7bar(e)/100 psig(1)t			Average power consumption		Pressure drop (excluding filters)		Inlet/outlet connections 50 Hz: G/PN16 60 Hz: NPT/DN	Filter sizes (recommended)			Dimensions						Weight	
	l/s	m³/hr	cfm	kW	hp	bar	psi		Pre-filters		After-filter	mm			in			kg	lbs
									1 µm 0.1 ppm	0.01 µm 0.01 ppm	1 µm	L	W	H	L	W	H		
Purge Cooling																			
BD 100+	100	360	212	2.2	2.97	0.2	2.9	1 1/2"	DD120	PD120	DDp120	1250	770	1720	49	30.31	68	640	1421
BD 150+	150	540	318	3.3	4.5	0.2	2.9	1 1/2"	DD150	PD150	DDp150	1300	870	1770	51	34.25	70	680	1510
BD 185+	185	666	392	3.5	4.7	0.2	2.9	1 1/2"	DD175	PD175	DDp175	1300	870	1770	51	34.25	70	710	1576
BD 250+	250	900	530	4.8	6.5	0.2	2.9	2"	DD280	PD280	DDp280	1345	955	1816	53	37.6	71	775	1721
BD 300+	300	1080	636	5.7	7.7	0.2	2.9	2"	DD280	PD280	DDp280	1425	1010	1853	56	39.76	73	820	1821
BD 330+	330	1188	700	9.3	12.6	0.12	1.74	80	DD425+	PD425+	DDp425+	1764	1024	2558	69	40.31	100.7	1190	2642
BD 400+	400	1440	848	10.2	13.8	0.12	1.74	80	DD425+	PD425+	DDp425+	1764	1024	2558	69	40.31	100.7	1300	2886
BD 550+	550	1980	1166	12	16.2	0.12	1.74	80	DD550+	PD550+	DDp550+	1884	1024	2612	74	40.31	102.8	1620	3597
BD 850+	850	3060	1802	17.1	23.1	0.12	1.74	100	DD850+	PD850+	DDp850+	2359	1175	2702	93	46.26	106.4	2600	5773
BD 1100+	1100	3960	2332	24.2	32.7	0.12	1.74	100	DD1100+	PD1100+	DDp1100+	2472	1175	2681	97	46.26	105.6	3040	6750
BD 1400+	1400	5040	2968	33	44.55	0.1	1.45	150	DD1400+	PD1400+	DDp1400+	2720	2199	2548	107	86.57	100.3	4100	9103
BD 1800+	1800	6480	3816	39	52.65	0.16	2.32	150	DD1800+	PD1800+	DDp1800+	2793	2199	2548	110	86.57	100.3	4700	10435
BD 2200+	2200	7920	4664	55	74.25	0.22	3.19	150	DD2200+	PD2200+	DDp2200+	2993	2199	2548	118	86.57	100.3	5600	12434
BD 3000+	3000	10800	6360	69	93.15	0.18	2.61	150	DD3000+	PD3000+	DDp3000+	3350	2417	2893	132	95.16	113.9	7600	16874
Zero purge cooling																			
BD 330+	330	1188	700	8.6	11.6	0.12	1.74	80	DD425+	PD425+	DDp425+	1764	1024	2558	69	40.31	100.7	1420	3135
BD 400+	400	1440	848	10.7	14.4	0.12	1.74	80	DD425+	PD425+	DDp425+	1764	1024	2558	69	40.31	100.7	1545	3430
BD 550+	550	1980	1166	13.2	17.8	0.12	1.74	80	DD550+	PD550+	DDp550+	1884	1024	2612	74	40.31	102.8	1910	4241
BD 850+	850	3060	1802	23.4	31.6	0.12	1.74	100	DD850+	PD850+	DDp850+	2359	1175	2702	93	46.26	106.4	2960	6572
BD 1100+	1100	3960	2332	32.4	43.7	0.12	1.74	100	DD1100+	PD1100+	DDp1100+	2472	1175	2681	97	46.26	105.6	3490	7749
BD 1400+	1400	5040	2968	37	50.0	0.1	1.45	150	DD1400+	PD1400+	DDp1400+	2720	2639	2548	107	103.9	100.3	4450	9880
BD 1800+	1800	6480	3816	45	60.8	0.16	2.32	150	DD1800+	PD1800+	DDp1800+	2793	2663	2548	110	104.8	100.3	5050	11213
BD 2200+	2200	7920	4664	62	83.7	0.22	3.19	150	DD2200+	PD2200+	DDp2200+	2993	2775	2548	118	109.3	100.3	5950	13211
BD 3000+	3000	10800	6360	79	106.7	0.18	2.61	150	DD3000+	PD3000+	DDp3000+	3350	2923	2893	132	115.1	113.9	7950	17651

HEAT OF COMPRESSION DESICCANT DRYERS

DRYER TYPE	Inlet flow FAD 7bar(e)/100 psig(1)			Average power consumption		Pressure drop (excluding filters)		Inlet/outlet connections 50 Hz: G/PN16 60 Hz: NPT/DN	Filter sizes (recommended) After-filter 1 µm	Dimensions						Weight	
	l/s	m³/hr	cfm	kW	hp	bar	psi			mm			in			kg	lbs
										L	W	H	L	W	H		
XD 550+	550	1980	1166	3.4	4.59	0.39	5.655	80	DDp550+	1884	1589	2612	74.2	62.6	103	2196	4876
XD 850+	850	3060	1802	5.1	6.9	0.39	5.655	100	DDp850+	2359	1936	2752	92.9	76.2	108	3320	7371
XD 1100+	1100	3960	2332	6.5	8.8	0.39	5.655	100	DDp1100+	2473	1936	2734	97.4	76.2	108	3835	8515
XD 1400+	1400	5040	2968	8.4	11.3	0.35	5.075	150	DDp1400+	4120	2290	2556	162	90.2	101	5921	13146
XD 1800+	1800	6480	3816	10.8	14.6	0.35	5.075	150	DDp1800+	4120	2292	2560	162	90.2	101	6550	14543
XD 2200+	2200	7920	4664	13.2	17.8	0.35	5.075	150	DDp2200+	4120	2292	2680	162	90.2	106	7365	16353
XD 3000+	3000	10800	6360	18	24.3	0.35	5.075	200	DDp3000+	5617	2724	2866	221	107	113	9531	21162
XD 3600+	3600	12960	7632	21.6	29.2	0.35	5.075	200	DDp4000+	5617	2724	2866	221	107	113	10390	23069

(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.

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.



www.atlascopco.com

