



CDX 4-1200 refrigerant dryers

Solid, simple and smart: advanced reliability in compressed air



CDX refrigerant dryer

The inlet air of a compressor contains humidity and contaminants like dust, oil, etc. During compression, these contaminants reach a high concentration. This can cause wear and corrosion in your downstream equipment, with potentially costly interruptions in your production, and a reduction in the efficiency and service life of your equipment.

By cooling the compressed air, a refrigerant dryer removes most of the water content. Our CDX range ensures high-quality dry air, increasing efficiency and productivity as well as the life span of your equipment and tools.

The benefits of refrigerant dryers

Clean and dry air

- Increases your overall productivity
- Improves your final product quality
- Protects your downstream equipment against corrosion, rust and air leaks
- Avoids costly service interventions



User benefit

Simple installation

- Light and compact design
- Easy to transport
- Easy and fast installation using the optional filter supports and by pass option (CDX 4-18)

Solid quality

- High reliability was a key driver when developing the CDX dryer range
- First-class components tested under extreme operating conditions
- Constant dewpoint under any load conditions

Easy maintenance and accessibility

- Low maintenance level
- Reliable components easily accessible
- Long service intervals

Costs saving

- Very little maintenance required
- Low energy consumption
- Energy savings due to low pressure drops
- No loss of compressed air due to level-controlled condensate drain

Advanced refrigerant solutions

- Low refrigerant gas load
- New microchannel condenser requires lower gas load (CDX 240-1200)
- Refrigerant gas with low GWP

CDX 4-180

Reliable dry air with the lowest operational costs



As low as Class -;4; -
according to ISO
8573-1:2010



Low pressure drop



Robust design

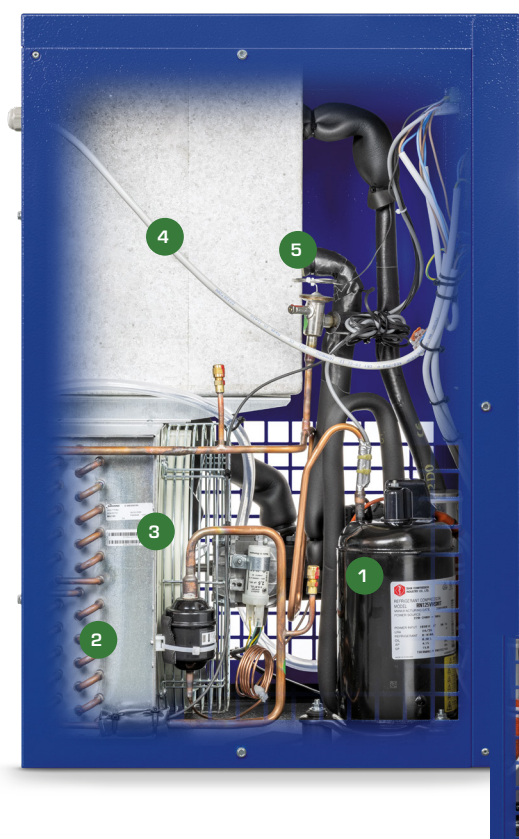


Compact footprint
and easy installation



Very low
maintenance

Solid performance



- 1 Refrigerant compressor**
Driven by an electric motor, cooled using refrigerant fluid and protected against thermal overload.
- 2 Refrigerant condenser**
Air-cooled and with a large exchange surface for high thermal exchange.
- 3 Motor-driven fan**
For the condenser cooling air flow.
- 4 3-In-1 heat exchanger**
With high-efficiency operation to minimize pressure drop and footprint.
- 5 Hot gas bypass valve**
Controls the refrigerant capacity under all load conditions to prevent ice formation in the system.
- 6 Automatic discharge of condensate**
Energy-saving and self-adjusting, allows only moisture to discharge and prevents waste discharge of valuable compressed air.



Available options

CDX 4-18

Bypass valve and filter support*

Continue using the filters during maintenance or malfunction of the dryer and avoid costly downtime.

Filter support*

Install two filters at the back of the dryer to reduce your dryer's footprint.

* Filters not included.

CDX 240-1200

Reliable dry air with the lowest operational costs



As low as Class -4; -
according to ISO
8573-1:2010



Low pressure drop



High-efficiency dryer
lowers CO₂ emissions



New microchannel
refrigerant condenser
reduces gas charge
and therefore your
carbon footprint



Very low
maintenance

State-of-the-art engineering



- 1 Scroll refrigerant compressor**
Scroll technology delivers a stable performance with industry-leading efficiency and COP.
- 2 Air-air exchanger**
Designed for high thermal exchange and low load losses.
- 3 Air/refrigerant evaporator:**
 - a. 1 for CDX 240-700, 2 for CDX 840-1200.
 - b. Up to 25% lower pressure drop.
 - c. Reduces dryer size.
- 4 Hot gas bypass valve**
Controls the refrigerant capacity under all load conditions to prevent ice formation.
- 5 Control panel**
Ensures easy, advanced control and monitoring.
- 6 Free contacts**
Allow for remote start/stop, general alarm and drain alarm.
- 7 Refrigerant condenser**
Microchannel design ensures a smaller physical and environmental footprint.

Technical data

According to ISO 7183:2007

	Air treatment capacity			R410A - 50Hz		R513A - 50Hz		R513A - 60Hz		Inlet/outlet connections	Dimensions (mm)	Weight up to
				Power consumption	Voltage	Power consumption	Voltage	Power consumption	Voltage			
Model	l/min	m³/h	cfm	W	V/Ph/Hz	W	V/Ph/Hz	W	V/Ph/Hz	gas/DN	A x B x C	Kg
CDX 4	350	21	12,4	-	-	130	230/1/50	170	230/1/60	3/4" M	493 x 350 x 450	19
CDX 6	600	36	21,2	-	-	164	230/1/50	172	230/1/60	3/4" M	493 x 350 x 450	19
CDX 9	850	51	30	-	-	190	230/1/50	222	230/1/60	3/4" M	493 x 350 x 450	20
CDX 12	1200	72	42,4	-	-	266	230/1/50	306	230/1/60	3/4" M	493 x 350 x 450	25
CDX 18	1800	108	63,6	-	-	284	230/1/50	364	230/1/60	3/4" M	493 x 350 x 450	27
CDX 24	2350	141	83	-	-	674	230/1/50	726	230/1/60	1" F	497 x 370 x 764	44
CDX 30	3000	180	106	-	-	716	230/1/50	763	230/1/60	1" F	497 x 370 x 764	44
CDX 36	3600	216	127	631	230/1/50	933	230/1/50	590	230/1/60	1" 1/2 F	557 x 460 x 789	62
CDX 41	4100	246	145	705	230/1/50	933	230/1/50	727	230/1/60	1" 1/2 F	557 x 460 x 789	60
CDX 52	5200	312	184	905	230/1/50	933	230/1/50	745	230/1/60	1" 1/2 F	557 x 460 x 789	64
CDX 65	6500	390	230	969	230/1/50	1276	230/1/50	1315	230/1/60	1" 1/2 F	587 x 580 x 899	82
CDX 77	7700	462	272	1124	230/1/50	1276	230/1/50	1325	230/1/60	1" 1/2 F	587 x 580 x 899	92
CDX 100	10000	600	353	1540	400/3/50	1912	400/3/50	2021	460/3/60	2" F	1070 x 805 x 962	157
CDX 120	12000	720	424	1980	400/3/50	1912	400/3/50	2341	460/3/60	2" F	1070 x 805 x 962	170
CDX 150	15000	900	530	2010	400/3/50	2629	400/3/50	2511	460/3/60	2" 1/2 F	1070 x 805 x 962	176
CDX 180	18000	1080	636	2770	400/3/50	2629	400/3/50	3334	460/3/60	2" 1/2 F	1070 x 805 x 962	188
CDX 240	24000	1440	848	3500	400/3/50	3108	400/3/50	4490	460/3/60	3" M	1005 x 1132 x 1399	285
CDX 300	30000	1800	1059	3690	400/3/50	3485	400/3/50	5020	460/3/60	3" M	1005 x 1121 x 1596	350
CDX 350	35000	2100	1236	4550	400/3/50	4179	400/3/50	6820	460/3/60	3" M	1005 x 1121 x 1596	361
CDX 450	45000	2700	1589	6097	400/3/50	4970	400/3/50	7880	460/3/60	DN 100	1005 x 1121 x 1826	447
CDX 500	50000	3000	1766	6540	400/3/50	6358	400/3/50	9640	460/3/60	DN 100	1005 x 1531 x 1826	573
CDX 625	62400	3744	2204	7100	400/3/50	6150	400/3/50	9750	460/3/60	DN 100	1005 x 1531 x 1826	630
CDX 700	70000	4200	2472	7290	400/3/50	6256	400/3/50	9870	460/3/60	DN 100	1005 x 1531 x 1826	630
CDX 840	84000	5040	2966	8260	400/3/50	7344	400/3/50	11700	460/3/60	DN 150	1455 x 1979 x 1826	1004
CDX 990	99000	5940	3496	10200	400/3/50	8463	400/3/50	13580	460/3/60	DN 150	1455 x 1979 x 1826	1010
CDX 1200	120000	7200	4238	12180	400/3/50	12113	400/3/50	16970	460/3/60	DN 150	1455 x 1979 x 1833	1116

Notes:

Reference conditions:

- Operating pressure: 7 bar (100 psi)
- Inlet temperature: 35°C
- Room temperature: 25°C
- Pressure dewpoint: +4°C +/-1
- Available in different voltages and frequencies

Operating limit conditions:

- Max. operating pressure: 16 bar (232 psi) CDX 4-18
14 bar (203 psi) CDX 24-1200
- Max. inlet temperature: 55°C (60°C for CDX 100-1200)
- Min./Max. ambient temperature: +5°C; 43°C (+5°C; 46°C for CDX 100-1200)

Optional for CDX (4-18):

- Bypass + filter support
- Filter support

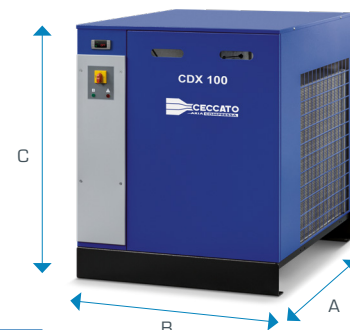
Correction factor for conditions differing from the project $K = A \times B \times C$

Room temperature	°C	25	30	35	40	43	46
A		1.00	0.91	0.81	0.72	0.67	0.62

Inlet temperature	°C	25	30	35	40	46	50	55	60
B		1.10	1.05	1.00	0.82	0.69	0.58	0.49	0.42

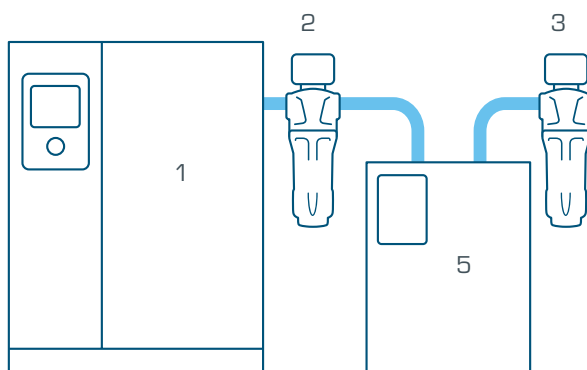
Operating pressure	bar	6	7	8	10	13	14	15	16
C		0.97	1.00	1.03	1.07	1.12	1.15	1.16	1.17

The new flow rate value can be obtained by dividing the current or real flow rate by the correction factor related to the real operational conditions.

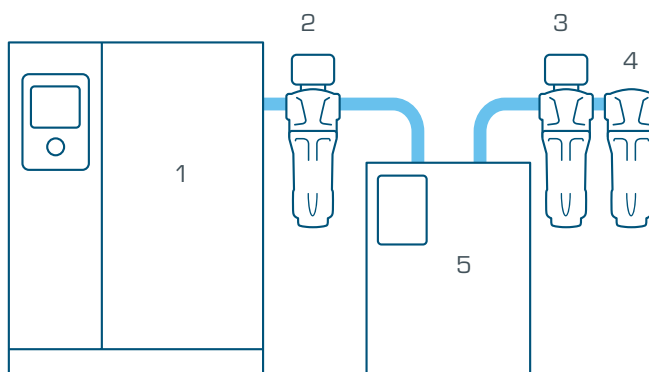


Typical installations

High quality air with reduced dew point (air purity to ISO 8573-1: class 1:4:2)



High quality air with reduced dew point and oil concentration (air purity to ISO 8573-1: class 1:4:1)



1. Compressor with after cooler
2. G filter
3. C filter
4. V filter
5. Refrigerant dryer

Vertical receiver is always suggested



Contact your local representative:

www.ceccato.com



CARE

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

TRUST

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

EFFICIENCY

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

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