



Solid, simple and smart: advanced reliability in compressed air

CDX 4 - 1200 REFRIGERANT DRYERS



User benefits



Simple installation

- Lightweight and compact design
- Easy to transport
- Easy and fast installation using the optional filter supports and bypass 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
- Reliable components are easily accessible
- Long service intervals

Cost savings

- 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



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

Environment friendly refrigerant gases



A key objective in the design of the CDX dryer was to deliver a product that offers performance, reliability and safety with the lowest possible environmental impact.

- Environment friendly thanks to the use of R513A and R410A gas.
- No impact on the ozone layer.

- New micro condenser requires lower gas load (CDX 240-1200).

- R410A benefits:

- Low Global Warming Potential (GWP)
- Energy savings with high-efficiency refrigerant compressors

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,
below 0.2 bar/2.9 psi



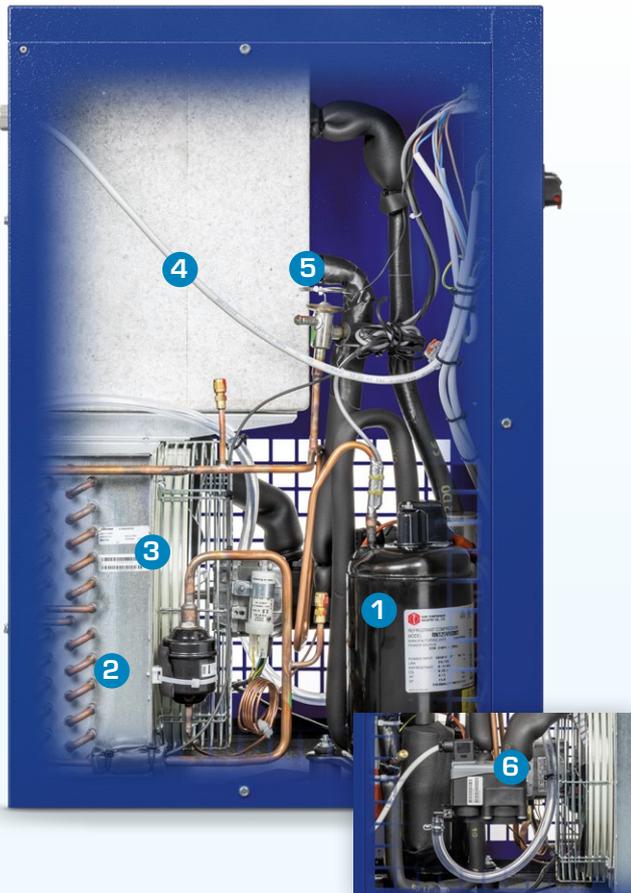
Robust design



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, -5 according to ISO 8573-1:2010



Low pressure drop, typically below 0.2 bar/2.9 psi



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 and Cagi Pneurop PN8NTC2

Model	Max. working pressure		Air treatment capacity			Power consumption		Inlet/outlet connections	Dimensions			Weight	Refrigerant gas
	Bar	PSI	l/min	m³/h	cfm	W	V/Hz/Ph		A	B	C		
CDX 4	16	232	350	21	12,4	130	230/50/1	3/4" M	493	350	450	19	R513A
CDX 6	16	232	600	36	21,2	164	230/50/1	3/4" M	493	350	450	19	R513A
CDX 9	16	232	850	51	30,0	190	230/50/1	3/4" M	493	350	450	20	R513A
CDX 12	16	232	1200	72	42,4	266	230/50/1	3/4" M	493	350	450	25	R513A
CDX 18	16	232	1825	110	64,4	284	230/50/1	3/4" M	493	350	450	27	R513A
CDX 24	14	203	2350	141	83,0	674	230/50/1	1" F	497	370	764	44	R513A
CDX 30	14	203	3000	180	106	716	230/50/1	1" F	497	370	764	44	R513A
CDX 36	14	203	3600	216	127	631	230/50/1	1" 1/2 F	557	460	789	62	R410A
CDX 41	14	203	4100	246	145	705	230/50/1	1" 1/2 F	557	460	789	60	R410A
CDX 52	14	203	5200	312	184	905	230/50/1	1" 1/2 F	557	460	789	62	R410A
CDX 65	14	203	6500	390	230	969	230/50/1	1" 1/2 F	587	580	899	82	R410A
CDX 77	14	203	7700	462	272	1124	230/50/1	1" 1/2 F	587	580	899	82	R410A
CDX 100	14	203	10000	600	353	1540	400/50/3	2" F	1070	805	962	145	R410A
CDX 120	14	203	12000	720	424	1980	400/50/3	2" F	1070	805	962	158	R410A
CDX 150	14	203	15000	900	530	2010	400/50/3	2" 1/2 F	1070	805	962	165	R410A
CDX 180	14	203	18000	1080	636	2770	400/50/3	2" 1/2 F	1070	805	962	164	R410A
CDX 240	14	203	24000	1440	848	3500	400/50/3	3" M	1005	1132	1399	230	R410A
CDX 300	14	203	30000	1800	1059	3690	400/50/3	3" M	1005	1121	1596	325	R410A
CDX 350	14	203	35000	2100	1236	4550	400/50/3	3" M	1005	1121	1596	338	R410A
CDX 450	14	203	45000	2700	1589	6097	400/50/3	DN 100	1005	1121	1826	390	R410A
CDX 500	14	203	50000	3000	1766	6540	400/50/3	DN 100	1005	1531	1826	462	R410A
CDX 625	14	203	62400	3744	2204	7100	400/50/3	DN 100	1005	1531	1826	508	R410A
CDX 700	14	203	70000	4200	2472	7290	400/50/3	DN 100	1005	1531	1826	508	R410A
CDX 840	14	203	84000	5040	2966	8260	400/50/3	DN 150	1979	1455	1826	810	R410A
CDX 990	14	203	99000	5940	3496	10200	400/50/3	DN 150	1979	1455	1826	815	R410A
CDX 1200	14	203	120000	7200	4238	12180	400/50/3	DN 150	1979	1455	1833	900	R410A

NOTES:

Reference conditions:

- Operating pressure: 7 bar (100 psi)
- Operating 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 $K = A \times B \times C$

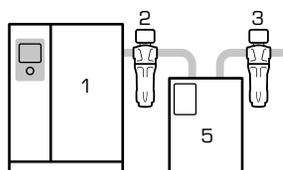
Room temperature	°C	25	30	35	40	43	46	Operating temperature	°C	25	30	35	40	46	50	55	60
	A	1	0.91	0.81	0.72	0.67	0.62		B	1.1	1.05	1	0.82	0.69	0.58	0.49	0.42

Operating pressure	bar	6	7	8	10	13	14	15	16
	C	0.97	1	1.03	1.07	1.12	1.15	1.16	1.17

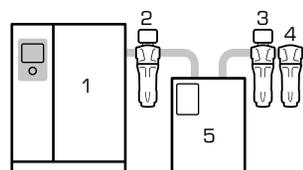
The new flow rate value can be obtained by dividing the current or real flow rate by the correction factor related to the real operational conditions.

Typical installations

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



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



- Compressor with aftercooler 1
 - G filter 2
 - C filter 3
 - V filter 4
 - Refrigerant dryer 5
- Vertical receiver is always suggested



Contact your local representative:

www.ceccato.com

6999 1001 57



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.