CDX 4 - 840
Refrigerant dryers

Solid, simple, smart.
High reliability in
compressed air drying.

AVAILABILITY
SERVICEABILITY
RELIABILITY
SIMPLICITY
PARTNERSHIP

TECHNOLOGY YOU CAN TRUST

CECCATO
ARIA COMPRESSA

User benefits

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

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 the compression these contaminants reach a high concentration. This can cause wear and corrosion to the downstream equipment, with potential costly interruption to production and reduction in the efficiency and service life of the equipment used.

By cooling down the compressed air, a refrigerant dryer removes the largest part 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

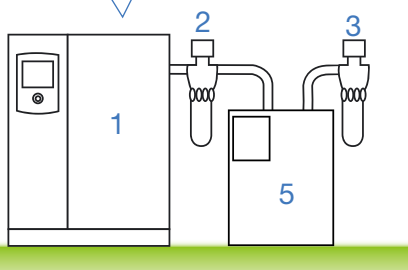
Clean and dry air

- Increase your overall productivity
- Improve your final product quality
- Protect your downstream equipment against corrosion, rust and leakages.
- Avoid costly service interventions

Typical installations

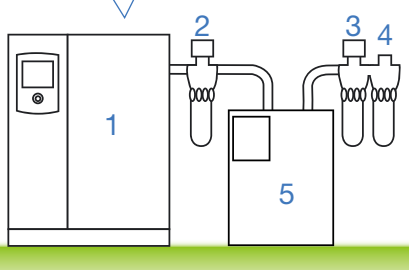
1. Compressor with after cooler
2. G filter
3. C filter

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



4. V filter
5. Refrigerant dryer. Vertical receiver is always recommended

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



THE SMART CHOICE FOR HIGH RELIABILITY

Components

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 AIR-AIR EXCHANGER
with high thermal performance and low pressure drop.

5 AIR/REFRIGERANT EVAPORATOR
with high thermal performance and low pressure drop.

6 CONDENSATE SEPARATOR
for efficient condensate removal.

7 HOT GAS BYPASS VALVE
controls the refrigerant capacity under all load conditions.

8 AUTOMATIC DISCHARGE OF CONDENSATE
energy saving and self adjusting, allows only moisture to discharge and prevents waste discharge of valuable compressed air.

9 CONTROL PANEL
indicating all relevant information

Drying principle

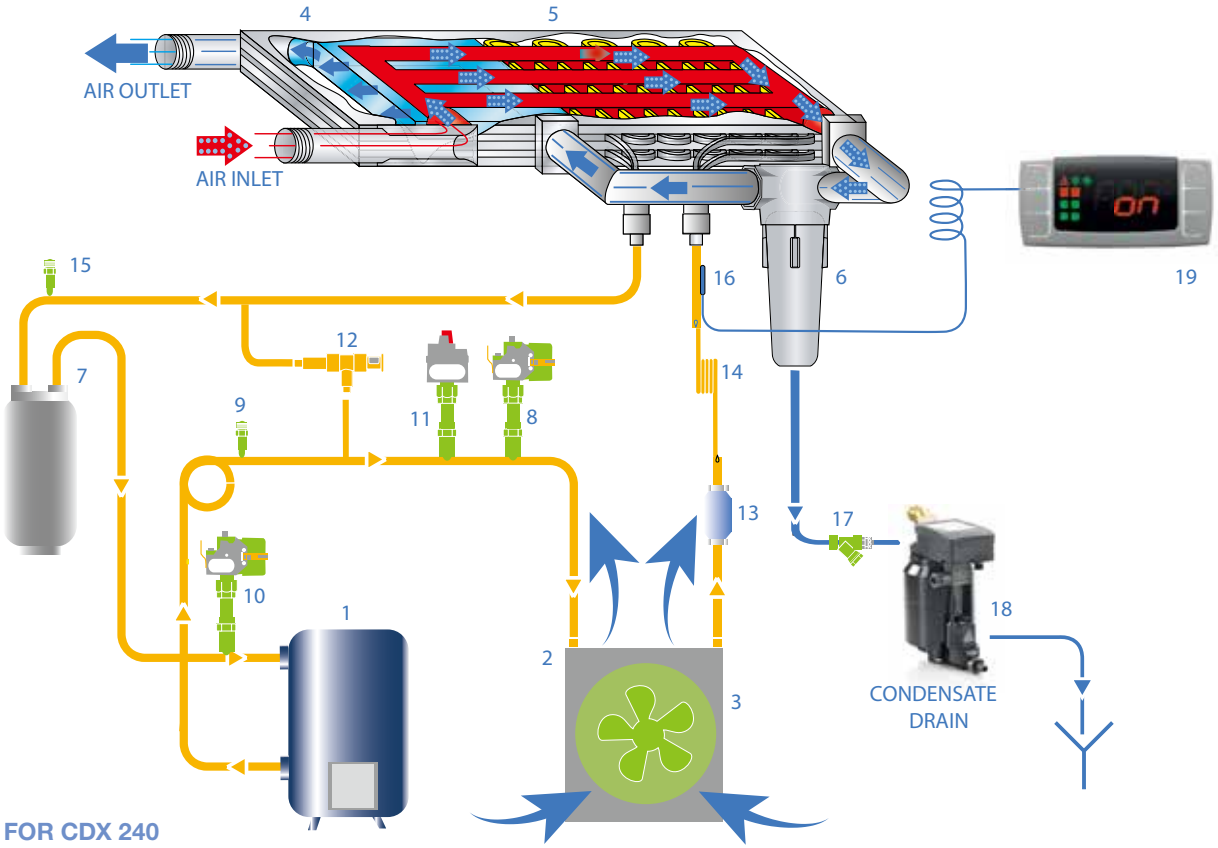


DIAGRAM FOR CDX 240

1. Refrigerant fluid compressor
2. Condenser
3. Motor driven fan
4. Air/air heat exchanger
5. Air/Refrigerant Evaporator
6. Condensate separator with a demister filter
7. Refrigerant fluid separator
8. Maximum pressure switch
9. Service valve
10. Minimum pressure switch
11. Fan pressure switch
12. Hot gas bypass valve
13. Refrigerant fluid filter
14. Capillary Tube
15. Service valve
16. Dewpoint thermometer
17. Impurity collector
18. Automatic discharge of condensate
19. PDP indicator

PRODUCT FEATURES AND OPTIONS

PDP Indicator

The operation of the CDX dryer is monitored by an electronic controller indicating all relevant information:

Technical details:

- Status of the refrigerant dryer
- Status of the fan
- Dew point indication

Alarm display:

- High or low dew point
- Fan probe failure (CDX12-77)
- Service reminder

Potential free contact (CDX 24-77)

- PDP alarm
- High refrigerant temperature
- Fan probe failure

Potential free contact (CDX 100-840)

Free potential contact for a:

- General alarm:
  - High/low PDP alarm
  - High-refrigerant temperature
  - Probe failures
  - High-pressure switch
  - Electrical failure
- Drain alarm
- Remote start / stop

Intelligent drain discharge

The full refrigerant dryer range is equipped with a level-controlled condensate drain, a range using electronic sensors to discharge only condensate and without wasting any compressed air.

Benefits

✔ No loss of compressed air

✔ Energy saving

✔ Low noise level

Available options (for CDX 4-18)

Filter support and bypass*

The optional bypass allows the system to operate using the filters only during maintenance or malfunction of the dryer, thus avoiding any downtime.

Filter support*

This option allows two filters to be installed on the rear side of the dryer, reducing overall dimensions and installation costs.

** Filters are not included in the option.*

CDX 4 -840 REFRIGERANT DRYERS

Technical data • According to ISO 7183:2007 and Cagi Pneurop PN8NTC2

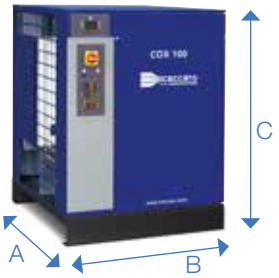
TYPE	Max. Working Pressure		Air Treatment Capacity			Motor Power		Inlet / outlet Connections	Dimensions			Weight	
	bar	psi	l/1'	m^3/h	cfm	W	V/Hz/Ph	gas/DN	A	B	C	Kg.	Refrigerant gas
CDX 4	16	232	350	21	12,4	130	230/50/1	3/4" M	493	350	450	19	R134a
CDX 6	16	232	600	36	21,2	164	230/50/1	3/4" M	493	350	450	19	R134a
CDX 9	16	232	850	51	30,0	190	230/50/1	3/4" M	493	350	450	20	R134a
CDX 12	16	232	1200	72	42,4	266	230/50/1	3/4" M	493	350	450	25	R134a
CDX 18	16	232	1825	110	64,4	284	230/50/1	3/4" M	493	350	450	27	R134a
CDX 24	14	203	2350	141	83,0	674	230/50/1	1" F	498	370	764	44	R134a
CDX 30	14	203	3000	180	106	716	230/50/1	1" F	498	370	764	44	R134a
CDX 36	14	203	3600	216	127	660	230/50/1	1" 1/2 F	558	460	789	53	R410A
CDX 41	14	203	4100	246	145	663	230/50/1	1" 1/2 F	558	460	789	60	R410A
CDX 52	14	203	5200	312	184	835	230/50/1	1" 1/2 F	558	460	789	65	R410A
CDX 65	14	203	6500	390	230	1016	230/50/1	1" 1/2 F	588	580	899	80	R410A
CDX 77	14	203	7700	462	272	1136	230/50/1	1" 1/2 F	588	580	899	80	R410A
CDX 100	14	203	10000	600	353	1319	400/50/3	2" F	898	735	962	128	R410A
CDX 120	14	203	12000	720	424	1631	400/50/3	2" F	898	735	962	146	R410A
CDX 150	14	203	15000	900	530	1889	400/50/3	2" F	898	735	962	158	R410A
CDX 180	14	203	18000	1080	636	2110	400/50/3	2" F	898	735	962	165	R410A
CDX 240	14	203	24000	1440	848	3260	400/50/3	3" M	1083	1020	1526	325	R410A
CDX 300	14	203	30000	1800	1060	3890	400/50/3	3" M	1083	1020	1526	335	R410A
CDX 350	14	203	35000	2100	1237	4750	400/50/3	3" M	1083	1020	1526	350	R410A
CDX 450	14	203	45000	2700	1589	6715	400/50/3	DN 125	1121	1020	1526	380	R452A
CDX 500	14	203	50000	3000	1766	6800	400/50/3	DN 125	2099	1020	1535	550	R452A
CDX 700	14	203	70000	4200	2472	10200	400/50/3	DN 125	2099	1020	1535	600	R452A
CDX 840	14	203	84000	5040	2966	12300	400/50/3	DN 125	2099	1020	1535	650	R452A

NOTES:

Reference conditions:
- Operating pressure: : 7 bar (100 psi)
- Operating temperature : 35 °C
- Room temperature: : 25 °C
- Pressure dewpoint: : +3 °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 24-840
- Max. inlet temperature: 55 °C
- Min/Max ambient temperature: +5 °C; 45 °C

Optional for CDX (4-18):
- Bypass + filter support
- Filter support



Correction factors for other operating conditions K = A x B x C

Room temperature	°C	25	30	35	40	45	
	A	1,00	0,92	0,84	0,80	0,74	(CDX 4-77)
		1,00	0,91	0,81	0,72	0,62	(CDX 100-840)

Operating temperature	°C	30	35	40	45	50	55	
	B	1,24	1,00	0,82	0,69	0,58	0,45	(CDX 4-77)
		1,00	1,00	0,82	0,69	0,58	0,49	(CDX 100-840)

Operation pressure	bar	5	6	7	8	9	10	11	12	13	14	15	16	
	C	0,90	0,96	1,00	1,03	1,06	1,08	1,10	1,12	1,13	1,15	1,16	1,17	(CDX 4-77)
		0,90	0,97	1,00	1,03	1,05	1,07	1,09	1,11	1,12	1,15			(CDX 100-840)

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

Environmental 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.

- Environmentally friendly thanks to the use of R134a, R410A and R452A gas.
- No impact on the ozone layer.
- R410A benefits:
  - Low Global Warming Potential (GWP)
  - Energy saving with rotary refrigerant compressor (20 to 30% more efficient then the conventional piston)

CDX 4-840
Refrigerant dryers

Part of a full range of Quality air products

CECCATO ARIA COMPRESSA

- A high quality product offering you **technology you can trust**.
- Our products are **easy to use** and guarantee high **reliability.**
- Distributors are always nearby ensuring **availability** of both products and support.
- Choosing our high performance products entails a **partnership** that will boost your business.
- Safeguarding long-term productivity through optimal **serviceability** and use of original parts.

ORIGINAL PART

Care. Trust. Efficiency.

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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Contact your local sales representative now!

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