



Chicago Pneumatic



Industrial Air Compressors

People. Passion. Performance.

Top air quality for high end equipment and processes

- Dry quality air prolongs the life of process equipment and provide superior production quality.
- Preventing equipments from corrosion by removing water vapour during compression process.
- Compact, high efficient device to meet continuous air demand.
- Ease of installation with small footprint.



- 1 Refrigerant compressor
- 2 Condenser
- 3 Heat exchanger with high thermal exchange and low pressure drop
- 4 Automatic condensate discharge
- 5 Dewpoint indicator

CPX series: Refrigerant Dryers

Technology	Refrigerant dryer
Air quality	Dry



Easy dew point indicator



Intelligent comfort drain



Type	m³/h	cfm	kW	Max. bar	volt/Hz	L x W x H (mm)	Refrig. gas	connection gas	Kg
CPX 10	25	15	0,18	16	230V/1ph/50Hz	550 x 350 x 484	R134a	R ¾	19
CPX 20	47	28	0,20	16	230V/1ph/50Hz	550 x 350 x 484	R134a	R ¾	19
CPX 30	58	34	0,22	16	230V/1ph/50Hz	550 x 350 x 484	R134a	R ¾	20
CPX 40	83	49	0,25	16	230V/1ph/50Hz	550 x 350 x 484	R134a	R ¾	25
CPX 60	108	64	0,30	16	230V/1ph/50Hz	550 x 350 x 484	R134a	R ¾	27
CPX 80	169	100	0,50	13	230V/1ph/50Hz	500 x 370 x 804	R410A	G 1	44
CPX 100	216	127	0,55	13	230V/1ph/50Hz	500 x 370 x 804	R410A	G 1	44
CPX 125	259	153	0,60	13	230V/1ph/50Hz	560 x 460 x 829	R410A	G 1	53
CPX 150	288	169	0,80	13	230V/1ph/50Hz	560 x 460 x 829	R410A	G 1	60
CPX 180	374	220	1,00	13	230V/1ph/50Hz	560 x 460 x 829	R410A	G1 ½	65
CPX 225	468	275	1,20	13	230V/1ph/50Hz	560 x 580 x 939	R410A	G1 ½	80
CPX 270	558	328	1,30	13	230V/1ph/50Hz	560 x 580 x 939	R410A	G1 ½	80
CPX 350	720	424	1,60	13	400V/3ph/50Hz	978 x 735 x 1002	R410A	G2 ½	128
CPX 425	864	508	1,90	13	400V/3ph/50Hz	978 x 735 x 1002	R410A	G2 ½	146
CPX 530	1026	604	2,10	13	400V/3ph/50Hz	978 x 735 x 1002	R410A	G2 ½	158
CPX 700	1188	699	2,40	13	400V/3ph/50Hz	978 x 735 x 1002	R410A	G2 ½	165
CPX 850	1440	848	3,90	13	400V/3ph/50Hz	1082 x 1020 x 1560	R404A	G2 ½	325
CPX 1000	1800	1060	4,46	13	400V/3ph/50Hz	1082 x 1020 x 1560	R404A	G2 ½	335
CPX 1700	3000	1766	6,80	13	400V/3ph/50Hz	2099 x 1020 x 1560	R404A	DN125	550
CPX 2500	4200	2374	10,20	13	400V/3ph/50Hz	2099 x 1020 x 1560	R404A	DN125	600

Notes:

- 1 Reference conditions:
 - Operating pressure: 7 bar (100 psi)
 - Operating temperature: 35 °C
 - Room temperature: 25 °C

Limit conditions:

- Working pressure:
 - 16 bar (232 psi) CPX 10-60
 - 13 bar (188 psi) CPX 80-2500
- Operating temperature: 55 °C
- Min/Max room temperature: +5 °C;+45 °C

Correction factor for conditions differing from the project K = A x B x C

	°C	Room temperature					Operating temperature	Operating temperature					Operation pressure	bar	
		25	30	35	40	45		30	35	40	45	50			55
Room temperature	A	1,00	0,92	0,84	0,80	0,74	B	1,24	1,00	0,82	0,69	0,58	0,45	C	(CPX 10-270)
		1,00	0,91	0,81	0,72	0,62			1,00	0,82	0,69	0,58	0,49		
Operation pressure		5	6	7	8	9	10	11	12	13	14	15	16		(CPX 10-270)
		0,90	0,96	1,00	1,03	1,06	1,08	1,10	1,12	1,13	1,15	1,16	1,17		
		0,90	0,97	1,00	1,03	1,05	1,07	1,09	1,11	1,12					



High efficiency line filter

- Today, the equipment is more sophisticated which requires the compressed air to be free of any impurities.
- Atmospheric air contains in its origin many impurities which once compressed (and combined with the oil, in the case of oil-injected compressors) may generate abrasive and corrosive emulsions which can damage the distribution lines, the pneumatic devices, and the product itself.
- There are six different types of filters to purify the compressed air.
- Thanks to filters, productivity, quality and reliability are increased, the wear of the distribution network is limited and breakdowns are prevented instead of cured.



Compressed air according to ISO 8573-1:2010

Purity Class	Solid particles Number of particles per m ³			Water Pressure dewpoint		Total Oil* Concentration mg/m ³
	0,1 - 0,5 µm	0,5 - 1,0 µm	1,0 - 5,0 µm	°C	°F	
0	As specified by the equipment user or supplier and more stringent than Class 1.					
1	≤ 20.000	≤ 400	≤ 40	≤ -70	≤ -94	≤ 0,01
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40	≤ -40	≤ 0,1
3	-	≤ 90.000	≤ 1000	≤ -20	≤ -4	≤ 1
4	-	-	≤ 10.000	≤ 3	≤ 37,4	≤ 5
5	-	-	≤ 100.000	≤ 7	≤ 44,6	-
6	≤ 5 µm/m ³			≤ 10	≤ 50	-

* Liquid, aerosol and vapour.

Filter type	Nominal Capacity*			Maximum pressure	Connections/ port thread	Dimensions				Free space for cartridge replacement	Weight
	l/min	m ³ /h	cfm			A	B	C	D		
FILTER 45	720	43	25	16	232	3/8"	90	21	228	75	1
FILTER 90	1500	90	53	16	232	1/2"	90	21	228	75	1,1
FILTER 125	2100	126	74	16	232	1/2"	90	21	283	75	1,3
FILTER 180	3000	180	106	16	232	3/4"	110	27,5	303	75	1,9
FILTER 180	3000	180	106	16	232	1"	110	27,5	303	75	1,9
FILTER 290	4800	288	170	16	232	1"	110	27,5	343	75	2,1
FILTER 505	8400	504	297	16	232	1 1/2"	140	34	449	100	4,2
FILTER 685	11400	684	403	16	232	1 1/2"	140	34	532	100	4,5
FILTER 935	15600	936	551	16	232	1 1/2"	140	34	532	100	4,6
FILTER 1295	21600	1296	763	16	232	2"	179	50	618	150	6,9
FILTER 1295	21600	1296	763	16	232	2 1/2"	179	50	618	150	6,9
FILTER 1890	31500	1890	1112	16	232	3"	210	57	720	200	11,0
FILTER 2430	40500	2430	1430	16	232	3"	210	57	890	200	12,6

* Reference condition: pressure 7 bar (102 psi). Maximum operating temperature of 66°C, and 35°C, only for V series. Minimum operating temperature of 1°C.

For other compressed air inlet pressures, multiply the filter capacity by the following correction factors:

Inlet pressure (bar)	1	2	3	4	5	6	7	8	10	12	14	16
Inlet pressure (psig)	15	29	44	58	72,5	87	102	116	145	174	203	232
Correction factor	0,38	0,53	0,65	0,75	0,83	0,92	1	1,06	1,2	1,31	1,41	1,5



Innovative design concept

- 1 Enjoy a reduced pressure drop and increased savings thanks to the unique head design.
- 2 A venting hole will give an audible alarm if the filter is dismantled under pressure.
- 3 Removing the filter bowl is an easy job as the external ribs allow for a firm grip on the filter.
- 4 No need to worry about corrosion. The die cast aluminum housing with special anodized treatment protects our filters both on the inside and the outside
- 5 Easy monitoring via sight glass.
- 6 Smooth draining of the filter ensures a reliable performance. This is guaranteed by our high performance automatic drain (G - C - P) and manual drain (V - S - D).



- Pressure gauge
- Voltage free contact mounted on the differential pressure gauge to give remote indication of the cartridge replacement



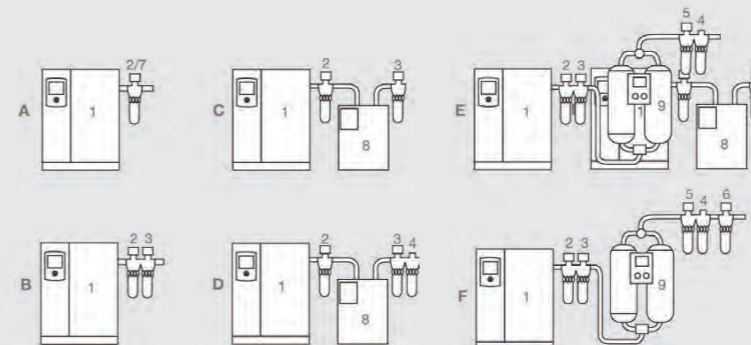
- Pressure indicator
- Serial Connection Kit allows easy mounting on filters in series
- Wall mounting kit to simplify the installation



- Quick coupling for easy connection to fix an intelligent drain with no loss of compressed air.

Typical installations:

1. Compressor with after-cooler
2. G filter
3. C filter
4. V filter
5. S filter
6. D filter
7. P Filter
8. Refrigerant dryer
9. Adsorption dryer



A. General purpose protection

(air purity to ISO 8573-1: G filter class 2:-:3 & P filter class 4:-:3)

B. General purpose protection and reduced oil concentration

(air purity to ISO 8573-1: class 1:-:2)

C. High quality air with reduced dew point

(air purity to ISO 8573-1: class 1:4:2)

D. High quality air with reduced dew point and oil concentration

(air purity to ISO 8573-1: class 1:4:1)

E. High quality air with extremely low dew point

(air purity to ISO 8573-1: class 2:2:1)

F. High quality air with extremely low dew point

(air purity to ISO 8573-1: class 1:2:1)

Note: A vertical receiver is always suggested.

The quality of air required throughout a typical compressed air system varies. Offering an extensive filter range, Chicago Pneumatic can always match your precise requirements, ensuring that all types of contamination are avoided and costs are reduced to an absolute minimum.

	S	D	G	C	P	V
Filter type	Solid particles	Solid particles	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil vapor
Test method	ISO 12500-3	ISO 12500-3	ISO 12500-1 ISO 8573-2	ISO 12500-1 ISO 8573-2	ISO 12500-1 ISO 12500-3 ISO 8573-2	ISO 8573-5
Inlet Oil Concentration (mg/m ³)	NA	NA	10	10	10	0,01
Count efficiency (% at MPPS)*	(MPPS=0,1 µm) 99,81	(MPPS=0,06 µm) 99,97	NA	NA	(MPPS=0,1 µm) 89,45	NA
Count efficiency (% at 1 µm)	99,97	99,999	NA	NA	94,19	NA
Count efficiency (% at 0,01 µm)	99,87	99,992	NA	NA	93,63	NA
Max oil carry-over (mg/m ³)	NA	NA	0,1	0,01	1	0,003
Dry pressure drop (mbar)	120	140	NA	NA	85	160
Wet pressure drop (mbar)**	NA	NA	205	240	115	NA
Wet pressure drop (mbar), in typical compressor installation	NA	NA	185	200	NA	NA
Element service	After 4.000 operating hours or 1 year or pressure drop > 350 mbar	After 4.000 operating hours or 1 year or pressure drop > 350 mbar	After 4.000 operating hours or 1 year	After 4.000 operating hours or 1 year	After 4.000 operating hours or 1 year	After 1.000 operating hours (at 20°C) or 1 year
Precede with	-	S	water separator	G	-	G & C

* MPPS = Most Penetrating Particle Size

** Inlet oil concentration = 10 mg/m³

Chicago Pneumatic Original Parts

Engineered lubricants



Chicago Pneumatic tailored coolants you can trust.

1. Do not limit warranty of compressor.
2. Maximum performance & efficiency.
3. Tested and approved for all applications & environments.
4. Increase significantly the reliability & minimizes risks absolutely.
5. Extending the compressors' lifetime.
6. Offer a firm grip on maintenance cost.

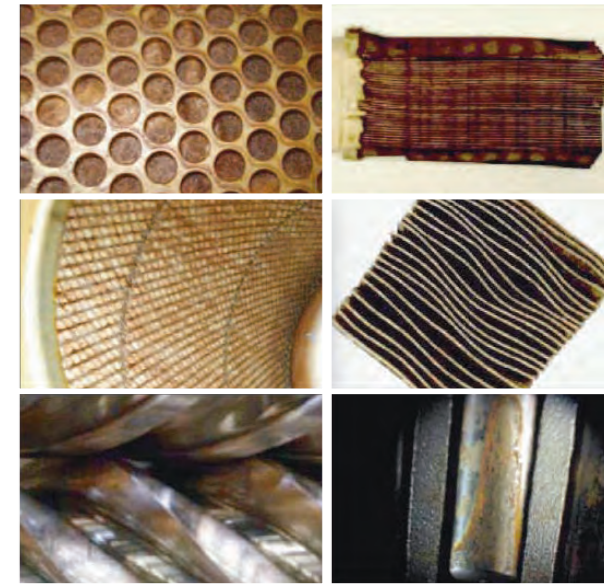
Lubricants are of vital importance.

Risks you can avoid

The use of low performance lubricants will damage irreversibly your equipment and lead to high maintenance and repair cost.

The consequences of poor performing lubricants can be:

- Main root cause of premature compression element failure.
- Wear of components, increased friction, cavitations.
- Reduced cooling, resulting in overheating bearings, compression elements and other components.
- Reduced critical clearance.
- Corrosion.
- Wrong ph, damage of parts, seals and internals.
- Varnish layer on internal parts (coolers, piping etc).
- Low performance, higher energy consumption, higher cost.
- Deposits.
- High unpredictable maintenance cost.
- Clogging of oil filter, separator and down stream air filters.
- Limited operation range.



ScrewGuard chemical properties are specifically engineered to maximize the reliability of every single component of your compressor.



Look for your quality assurance! Use Chicago Pneumatic Original Parts

Chicago Pneumatic is always at your service with comprehensive screw kits:

- Easy
- Guaranteed long lifetime
- Reliable operation
- All-in-one cost effectiveness

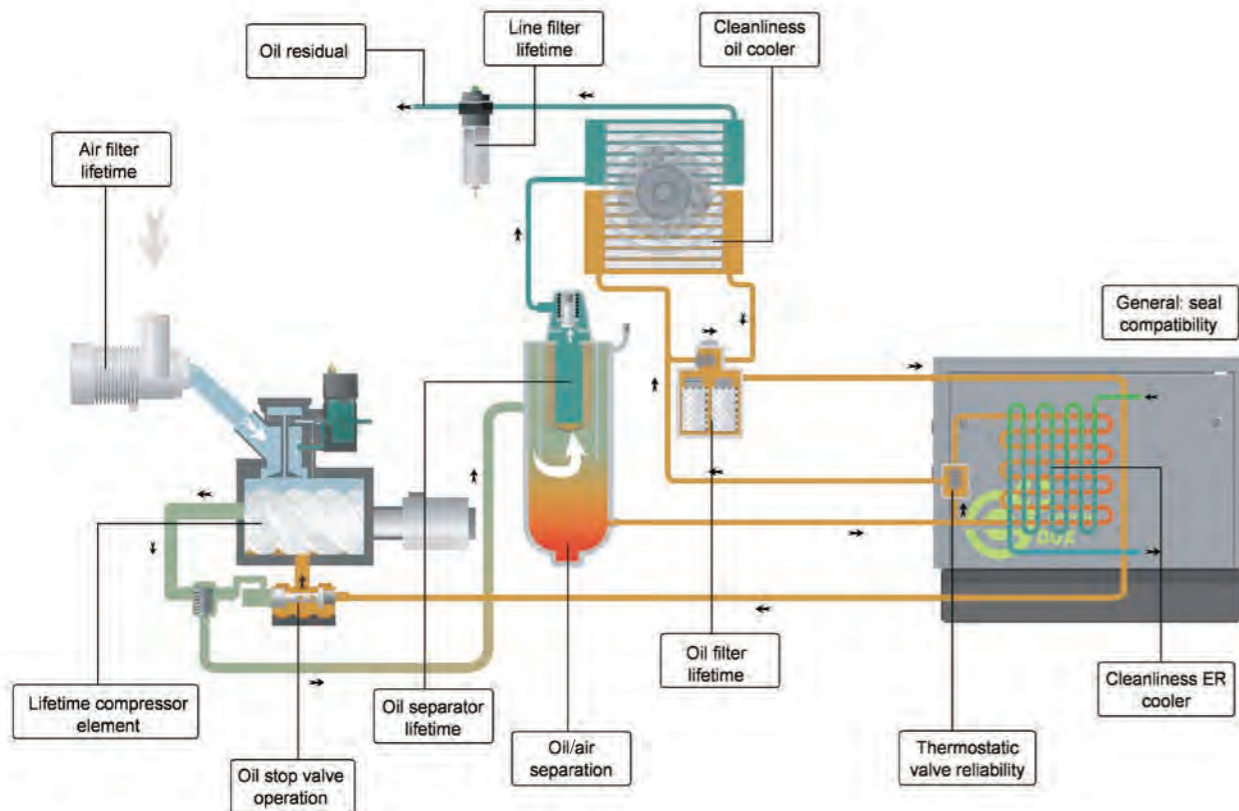


Description	Package Size	Order Number	Applications
ScrewGuard	5 L	6215 7140 00	Heavy industrial applications. Mild temperature environment. 2000h drain interval / 1 year.
	20 L	6215 7141 00	
	209 L	6215 7142 00	
ScrewGuard Plus	5 L	6215 7144 00	From low to high duty operation. Mild climate. 4000h drain interval / 1 year.
	20 L	6215 7145 00	
	209 L	6215 7146 00	
ScrewGuard Xtra	5 L	6215 7148 00	Fully synthetic lubricant. Long drain interval (8000h). High ambient condition.
	20 L	6215 7149 00	
	209 L	6215 7150 00	
ScrewGuard FoodGrade	20 L	6215 7153 00	Packaging & Food (4000h).

Installation



Operation diagram



Chicago
Pneumatic

Chicago Pneumatic: full offer, global presence



Industrial screw compressors



Screw compressor with tank



Inverter compressors



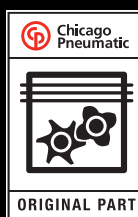
Gear driven compressors



Refrigerant dryers



Filter



**Original parts.
Your quality assurance.**

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Genelite Pty Ltd, 24 Perrin Place, Salisbury Qld 4107
ABN 40 095 032 385
Ph 1300 305 912
www.genelite.com.au
sales@genelite.com.au

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The 'original part' identification confirms that these components passed our strict test criteria. All parts are designed to match the compressor and are approved for use on the specified compressor. They have been thoroughly tested to obtain the highest level of protection, extending the compressors' lifetime and keeping the cost of ownership to an absolute minimum. No compromises are made on reliability. The use of 'original part' certified quality components helps ensure reliable operation and will not impact the validity of your warranty, unlike other parts. Look for your quality assurance.

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