CPZ Refrigerant Dryers

30 - 3500 CFM





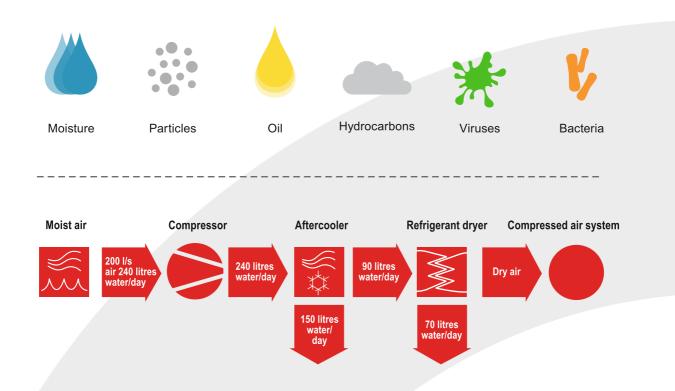
People.
Passion.
Performance.



For Improved Business Productivity, Quality and Efficiency.



Quality air solutions allow you to prevent corrosion, leakages, pollution and rust. Compressors take humidity and contamination from the intake air during the compression process. These particles combine with the oil used in the compressor. All these impurities can cause wear and corrosion to downstream equipments. This in turn may cause potential costly interruption to production and reduction in the efficiency and service life of the equipment used. To reduce this negative impact, a whole range of Quality Air Solution products have been developed to ensure air quality, increased efficiency & productivity and to lengthen the life span of your equipment and tools. With our wide range of products from dryers to filters, you can tackle several air quality problems at once, making them highly recommended components for every successful business.



A compressor that delivers 200 litres of air per second, also supplies approximately 240 litres of water per day if working with air at 20°C. To avoid problems and disturbances due to water precipitation in the pipes and connected equipment, the compressed air must be dried. This drying can be achieved by using a reliable Chicago Pneumatic CPZ Refrigerant Dryer.

CPZ Refrigerant Dryers 30 - 3500

Professional Air Quality for Protection of Equipment & Processes

The CPZ Refrigerant Dryers guarantee dry and qualitative compressed air which prolongs the lifetime of your equipment and ensures superior production quality. Water vapour is eliminated, avoiding corrosion in your compressed air network and tools. All in all, this lowers your maintenance cost and improves your overall production process for complete peace of mind.

Pressure Dew Point 3°-7° PDP

- · High efficiency plate-fin heat exchanger
- · Professional water removing function
- · Low relative humidity in outlet air

Professional Energy

- 50% less energy consumption compared to shell and tube type dryers
- · Optimized refrigeration system

Environment Safety

- Environment friendly gases R-134 A,R-410 A
- · Low (GWP) global warming potential
- Low (ODP) ozone depletion potential
- Energy saving

Reliable

- Industrial grade refrigeration compressor
- Digital controller & PDP display
- · Optimised piping with 3 stage leak test





Robust Structure

Reliable structure due to a robust canopy ensuring safe installation independent of the environment.



Electronic Controller

Monitor the operations and dew point of your CPZ dryer with the electronic controller.



Capacitive Drain CPZ 850-3500

This capacitive drain will allow you to save money by discharging only water.



Highly Efficient Heat Exchanger

The highly efficient heat exchanger safeguards your optimized cooling power and lowers pressure drops.



Timer Drain CPZ30-CPZ700

Reliable timer drain with adjustable drain interval and discharge time.

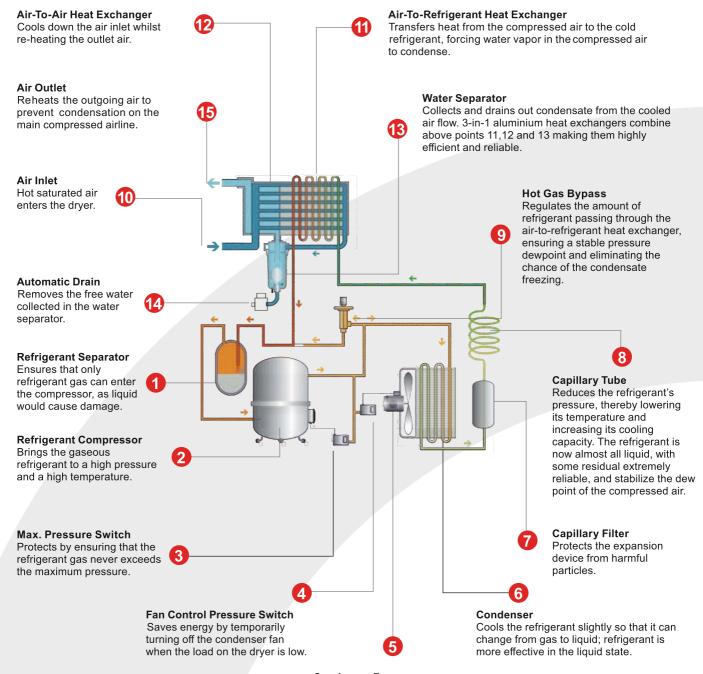
How Does CPZ Dryer Work?

Refrigerant circuit

The refrigerant circuit compresses and expands the refrigerant medium in a circular system in order to efficiently transfer heat from the wet compressed air to the atmosphere. The CPZ dryer refrigerant circuit is designed as a whole and only uses components of high and reliable quality, supplied by globally recognized manufacturers.

Air circuit

Wet compressed air flows directly through the CPZ dryer's internal 3-in-1 heat exchanger, wherein the 3 key dryer functions are combined. Firstly, the wet compressed air is cooled down to condensate the moisture. In the second stage this condensed moisture will be collected and drained out. Finally, the dried compressed air is re-heated before it enters the main compressed airline.



Condenser Fan
Efficiently provides constant
flow of ambient air to the air
condenser (only for air cooled).

Professional Air Quality for Protection of Equipment & Processes

Whatever is your compressed air need, Chicago Pneumatic can successfully help you to achieve the proper air quality class.

Compressed Air According to ISO 8573-1:2010

- ·		Solid Particles	S	Water	Total Oil*		
Purity Class	Num	ber of Particles	per m³	Pressure Dewpoint	Concentration		
Olass	0,1 - 0,5 μm		1,0 - 5,0 µm	°C	mg/m³		
0	As specified by the equipment user or supplier and more stringent than Class 1						
1	≤ 20.000	≤ 400	≤ 10	≤ -70	≤ 0,01		
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40	≤0,1		
3	-	≤ 90.000	≤ 1000	≤ -20	≤ 1		
4	-	-	≤ 10.000	≤ 3	≤ 5		
5	-	_	≤ 100.000	≤ 7	-		
6		≤ 5 µm/m		≤ 10	-		

^{*} Liquid, aerosol and vapour.

Technical Table

Dryer	Max. Operating Pressure	Capacity	Nominal Electrical Power	Voltage	Refrigerant Gas Type	Inlet / Outlet Connection		mensior _x W x F		Weight
CPZ	Bar G	CFM	Kw	V / Ph / Hz		Gomiconon	mm			KG
30	13	34	0.22	230 / 1 / 50	R134a	3/4"	355	430	445	30
50	13	53	0.36	230 / 1 / 50	R134a	3/4"	550	370	800	32
75	13	74	0.45	230 / 1 / 50	R134a	3/4"	550	370	800	36
115	13	117	0.95	230 / 1 / 50	R410A	1"	520	500	800	60
160	13	159	0.98	230 / 1 / 50	R410A	1 ½"	550	600	980	68
200	13	201	1.00	230 / 1 / 50	R410A	1 ½"	550	600	980	75
250	13	254	1.13	230 / 1 / 50	R410A	2"	550	600	980	85
300	13	297	1.67	230 / 1 / 50	R410A	2"	900	750	1000	120
380	13	381	1.70	230 / 1 / 50	R410A	2 ½"	1025	660	1120	138
480	13	487	1.90	230 / 1 / 50	R410A	2 ½"	1025	660	1120	156
600	13	604	2.22	230 / 1 / 50	R410A	2 ½"	1025	660	1120	168
700	13	710	2.61	230 / 1 / 50	R410A	2 ½"	1025	660	1120	175
850	13	848	3.90	400 / 3 / 50	R404A	3"	1085	1020	1560	325
1000	13	1060	4.46	400 / 3 / 50	R404A	3"	1085	1020	1560	335
1200	13	1236	5.55	400 / 3 / 50	R404A	3"	1085	1020	1560	350
1700	13	1766	6.80	400 / 3 / 50	R404A	DN 125	2100	1020	1560	550
2500	13	2473	10.20	400 / 3 / 50	R404A	DN 125	2100	1020	1560	650
2700	13	2650	14.5	400 / 3 / 50	R410A	DN 150	1644	1000	1883	600
3500	13	3530	17.8	400 / 3 / 50	R407C	DN 150	2100	1150	1900	700

Notes

Reference Conditions	CPZ30-CPZ700	CPZ 850-3500		
Operating Pressure	7 bar (100psi)	7 bar (100psi)		
Operating Temperature	40°C	35 ºC		
Room Temperature	30°C	25 °C		

Limit Conditions	CPZ 850-3500
Max Operating Pressure	13 bar (188psi)
Max Operating Temperature	55°C
Min/Max Room Temperature	5°C / 45°C

[•] Unit performance measured according to ISO 1217 Ed 4 2009.

[•] Noise level measured according to ISO 2151 / Pneurop / CAGIPN8NTC2

CP Filters 25 -1430 CFM



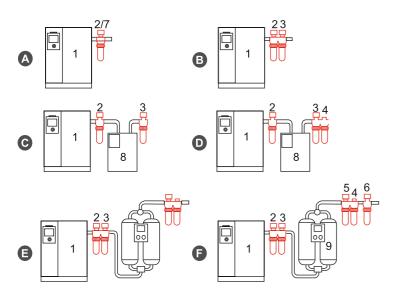
Thorough filtration for complete peace of mind

A unique combination of robustness and efficiency allows our high performance filters to purify your compressed air and gives you complete peace of mind. Whatever might be your required purity, CP filters come in 6 variants offering a tailor-made solution for every situation.



CP FILTERS

Typical Installations



- 1. Compressor with aftercooler
- 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)

Six Filter Types to Cover All Purity Requirements

- G Coalescing filters for general purpose protection, removing solid particles, liquid water and oil aerosol. Total Mass Efficiency: 99%.
- C High-efficiency coalescing filters, removing solid particles, liquid water and oil aerosol. Total Mass Efficiency: 99,9%.
- V Activated carbon filter for removal of oil vapour and hydrocarbon odors with a maximum remaining oil content of 0,003 mg/m³ (0,003 ppm). 1000 hour lifetime.

- S Particulate filters for dust protection.
 Count Efficiency: 99,81% at Most
 Penetrating Particle Size
 (MPPS = 0,1 micron).
- D High-efficiency particulate filters for dust protection. Count Efficiency: 99,97 % at Most Penetrating Particle Size (MPPS = 0,06 micron).
- P Coalescing and particulate general purpose pre filter. Removes solid particles, dust, liquid and oil aerosol. Total Mass Efficiency: 90%.

Several Options to Tailor the Filtration As Per Your Needs



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

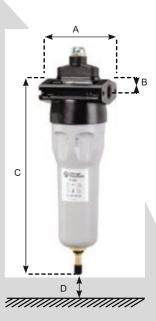


- · Pressure indicator
- Serial Connection Kit allows easy mounting on filters in series
- Wall mounting kit to simplify the installation



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

Filter Type	Nominal Capacity*	Maximum Pressure	Connections/ Port Thread	Dimensions		Free Space for Cartridge Replacement	Weight	
Titlet Type				Α	В	С	D	
	CFM	bar	G	mm	mm	mm	mm	kg
FILTER 45	25	16	3/8"	90	21	228	75	1
FILTER 90	53	16	1/2"	90	21	228	75	1,1
FILTER 125	74	16	1/2"	90	21	283	75	1,3
FILTER 180	106	16	3/4"	110	27,5	303	75	1,9
FILTER 180	106	16	1"	110	27,5	303	75	1,9
FILTER 290	170	16	1"	110	27,5	343	75	2,1
FILTER 505	297	16	1 1/2"	140	34	449	100	4,2
FILTER 685	403	16	1 1/2"	140	34	532	100	4,5
FILTER 935	551	16	1 1/2"	140	34	532	100	4,6
FILTER 1295	763	16	2"	179	50	618	150	6,9
FILTER 1295	763	16	2 1/2"	179	50	618	150	6,9
FILTER 1890	1112	16	3"	210	57	720	200	11,0
FILTER 2430	1430	16	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 part numbers, please contact your local customer center.



Since 1901, the Chicago Pneumatic name has represented reliability and attention to customer needs, with tools and compressors designed for specific industrial applications. Today, Chicago Pneumatic has a global reach, with local distributors around the world.

Our people start every single day with a passion to research, develop, manufacture and deliver new products that are meant to meet your needs not only today, but tomorrow as well.

To learn more, visit www.cp.com.

Chicago Pneumatic: Full Offer, Global Presence















TMD

CPVS

WIS AIR

Spiral AIR

PPNGs

TAS

CPV

Chicago Pneumatic Compressors Sveanagar, Mumbai-Pune Highway, Dapodi, Pune - 411012, Maharashtra, India.



Design Manufacturing, Sales and Service of Air Compressors, Air Dryers and Air Filters



ISO 9001. ISO 14001 OHSAS 18001 Forms an integral part of each business process of Chicago Pneumatic Compressors

Dealer Network	
Contract Con	100+ Distributors present across India
Regard Description of Control Market	Chicago Pneumatic compressors have a strong distribution network throughout India. Operating from almost every state ensures effective reach of products and services to end users across the country. Around 75% of these distributors have been associated with us for more than 15 years. To find your nearest distributor please visit www.cp.com

Regional Customer Centers				
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