



**CPX & CPXHT Series
Refrigerated Air Dryers**

People. Passion. Performance.

CPX Refrigerated Air Dryers

The CPX Refrigerated Air Dryers For All Applications

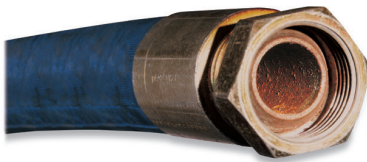
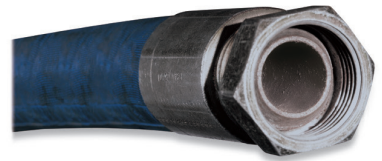
Sized to handle 12 to 2966 cfm, the CPX dryers fit any application. Extremely quiet and reliable, CPX dryers deliver dry air with minimal pressure drop. These dryers are machines designed for treating compressed air. By using the refrigerant characteristics of certain fluid, these dryers lower the temperature of the compressed air, causing water vapor to condense and discharge prior to it entering any distribution system.

Compressed Air Water Contamination

Atmospheric air contains water in vapor form in different volumes according to the ambient conditions. Under compression, this water is drawn in along with the air. After compression, the air and water are then discharged to the distribution system, with some of the water content normally being removed by a compressed air aftercooler and then discharged.

However, a large proportion of the water vapor content remains in the compressed air, moving in the pipe distribution system as the air is consumed.

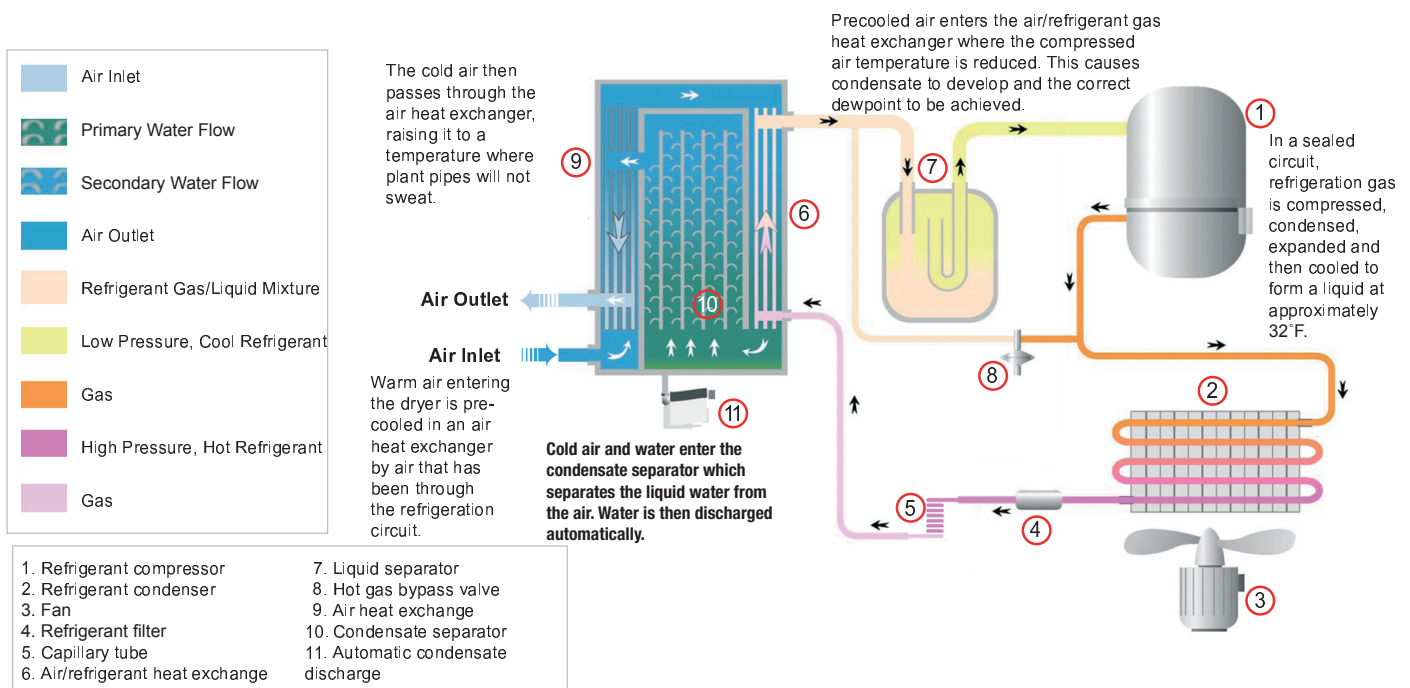
Compressed air may undergo further cooling in the piping, as a result of ambient temperature and/or due to expansion, resulting in liquid water lying in the pipe distribution system, receivers and pneumatic equipment.



As time passes, the condensate can cause serious damage to pipes and applications, resulting in production downtime and higher maintenance costs. During processes, where compressed air comes into contact with the final product, it can even damage the product itself.

Water Contamination Risks

- Corrosion in the network:**
Increasing pressure drop due to deterioration of the air network with increasing pipe scale and rust. Damage to joints will cause air leaks, significantly increasing the cost of plant production.
- Malfunction of the pneumatic equipment:**
Excess water will lead to malfunctioning of equipment and instrumentation, a reduction of component life and an increase in production losses and manufacturing costs.
- Product contamination:**
The efficiency of the production process can reduce product spoilage caused by product contamination; fitting moisture separators improves air quality. During painting, condensate causes imperfections on the finished product creating future corrosion areas. In pharmaceutical and electronic applications, condensate product contamination can be harmful and/or extremely expensive.



CPX Performance

Model	cfm @ 100 psig	Max. Pressure	Electrics* V/Ph/Hz	Weight (lbs)	L (in)	W (in)	H (in)	Refrig.	Noise (dBA)
CPX-10	12	232	115/230/60/1	42	14	20	18	R-134a	50
CPX-20	21	232	115/230/60/1	42	14	20	18	R-134a	50
CPX-30	30	232	115/230/60/1	44	14	20	18	R-134a	47
CPX-40	43	232	115/230/60/1	55	14	20	18	R-134a	53
CPX-60	65	232	115/230/60/1	60	14	20	18	R-134a	53
CPX-80	83	232	115/230/60/1	97	15	20	30	R-404A	57
CPX-100	106	188	115/230/60/1	97	15	20	30	R-404A	57
CPX-125	127	188	115/230/60/1	117	18	23	31	R-404A	58
CPX-150	145	188	115/230/60/1	132	18	23	31	R-404A	58
CPX-180	184	188	115/230/60/1	143	18	23	31	R-404A	58
CPX-225	200	188	230/60/1	176	23	24	35	R-404A	59
CPX-270	230	188	230/60/1	176	23	24	35	R-404A	59
CPX-350	270	188	460/60/3	282	29	35	38	R-410A	60
CPX-425	360	188	460/60/3	321	29	35	38	R-410A	67
CPX-530	500	188	460/60/3	348	29	35	38	R-410A	67
CPX-700	600	188	460/60/3	364	29	35	38	R-410A	68
CPX-850	860	188	460/60/3	717	40	43	60	R-404A	70
CPX-1000	1000	188	460/60/3	738	40	43	60	R-404A	71
CPX-1200	1216	188	460/60/3	771	40	43	60	R-404A	71
CPX-1500	1398	188	460/60/3	837	40	44	60	R-404A	71
CPX-1700	1760	188	460/60/3	1212	40	83	60	R-404A	74
CPX-2500	2400	188	460/60/3	1323	40	83	60	R-404A	74
CPX-3000	2966	188	460/60/3	1433	40	83	60	R-404A	74

* CPX-10 through CPX-180 available in 230/60/1

Reference conditions CPX10-CPX180: 77 °F ambient, 95 °F inlet, 100 psig, 38 °F pressure dewpoint

Reference conditions CPX225-CPX3000: 100 °F ambient, 100 °F inlet, 100 psig, 38 °F pressure dewpoint



Alarm (high/low dewpoint, fan probe failure or PDP probe failure)



Dryer Power On



High PDP



Fan in rotation



Low PDP (freezing problems)

- Increased dryer information display
- Service reminder available
- Remote alarms available