



**Chicago  
Pneumatic**



**CPXHT Series**

**People. Passion. Performance.**



# PEOPLE

## **You Can Count On.**

Chicago Pneumatic people – product designers, sales technicians, distributors, customers – all have something in common. We are passionate about performance. We know that every Chicago Pneumatic power tool, compressor, generator, breaker and paver is perfectly suited to a specific customer need. We are proud of Chicago Pneumatic's over 100-year-long history, and love showing off the latest Chicago Pneumatic product innovation.

# PASSION

## **For Building Great Compressors Worldwide.**

For Chicago Pneumatic people, performance isn't just about products. We place a value on our business partners' and customers' performance, and do our best to make it as easy as possible to work with Chicago Pneumatic. We collaborate, helping each other be even more productive, and showing how Chicago Pneumatic products work better together.

# PERFORMANCE

## **To Ensure Reliability and Value For Years.**

Chicago Pneumatic people are passionate about performance – passionate about our own professional performance, the performance of our products and the performance of our colleagues and partners.



# CPXHT - High Temp Dryers

The CPXHT dryers are a perfect complement to the RCP line of reciprocating air compressors. With a maximum inlet temperature of 180°F, no aftercooler is required. Included filtration eliminates dirt and oil giving you clean, dry compressed air.

| Model     | 50°F PDP cfm @ 100 psig | Use with | Electrics V/Hz/Ph | Oper. kW | Heat Exchanger | Max psig | Refrig. | Weight (lbs.) | L (in.) | W (in.) | H (in.) | Conn. (NPT) |
|-----------|-------------------------|----------|-------------------|----------|----------------|----------|---------|---------------|---------|---------|---------|-------------|
| CPXHT-25  | 25                      | 5 HP     | 115/1/60          | 1/4      | SS/Copper      | 232      | R-134a  | 85            | 20      | 14      | 18      | 1/2"        |
| CPXHT-50  | 50                      | 10 HP    | 115/1/60          | 1/4      | SS/Copper      | 232      | R-404A  | 128           | 23      | 18      | 31      | 1"          |
| CPXHT-75  | 75                      | 15 HP    | 115/1/60          | 1/2      | SS/Copper      | 232      | R-404A  | 183           | 23      | 18      | 31      | 3/4"        |
| CPXHT-100 | 100                     | 20 HP    | 115/1/60          | 3/4      | SS/Copper      | 232      | R-404A  | 194           | 23      | 18      | 41      | 3/4"        |
| CPXHT-125 | 125                     | 25 HP    | 115/1/60          | 3/4      | SS/Copper      | 232      | R-404A  | 200           | 23      | 18      | 41      | 3/4"        |

Maximum Ambient 95°F  
Minimum Ambient 34°F

Dew Point Temp 50°F +/- 2°F  
Maximum Inlet Temp 180°F

The CPXHT dryers are easy to install and have a compact design. Supplied with 115 Volt power means no special wiring is required and the space saving design incorporates refrigerated air dryer, moisture separator, and electronic water drain.

## Standard Features:

- Equipped with stainless steel/copper heat exchanger
- Eliminates water, oil and dirt from air systems
- Prevents damage to tools and cylinders, adding to their longevity
- Fewer finished product defects
- Prevents “fisheye” paint splotches
- Reduces operational downtime
- Increases profitability and productivity
- Eliminates air line purging
- Compact design for small footprint
- Quality components for efficient cooling
- Internal layout and enclosure allow for quiet operation



## 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.

CPX 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.



## Water Contamination Risks

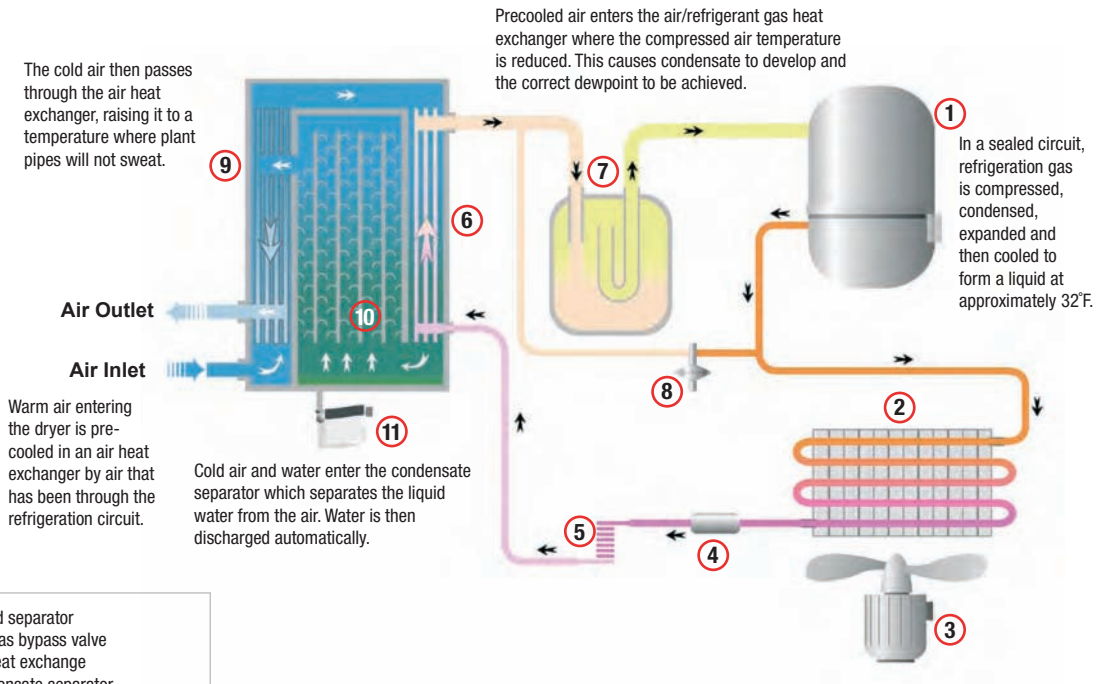
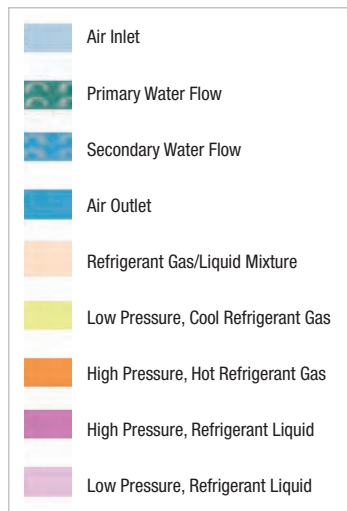
- **Corrosion in the network:**  
Increasing pressure drop due to deterioration of the air network with increasing pipe scale and rust. Damage to joints will cause air leaks, significantly increasing the cost of plant production.
- **Malfunction of the pneumatic equipment:**  
Excess water will lead 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 Refrigerated Air Dryers

## The CPX Refrigerated Air Dryers For All Applications

Sized to handle 12 to 2400 cfm, the CPX dryers fit any application. Extremely quiet and reliable, CPX dryers deliver dry air with minimal pressure drop.



- |                                  |                                    |
|----------------------------------|------------------------------------|
| 1. Refrigerant compressor        | 7. Liquid separator                |
| 2. Refrigerant condenser         | 8. Hot gas bypass valve            |
| 3. Fan                           | 9. Air heat exchange               |
| 4. Refrigerant filter            | 10. Condensate separator           |
| 5. Capillary tube                | 11. Automatic condensate discharge |
| 6. Air/refrigerant heat exchange |                                    |



## CPX Performance

| Model    | cfm @ 100 psig | Max. Pressure | Electrics* V/Hz/Ph | Weight (lbs.) | L (in.) | W (in.) | H (in.) | Refrig. | Noise (dBa) |
|----------|----------------|---------------|--------------------|---------------|---------|---------|---------|---------|-------------|
| CPX-10   | 12             | 240           | 115/60/1           | 42            | 13.8    | 19.6    | 17.7    | R-134a  | 50          |
| CPX-20   | 21             | 240           | 115/60/1           | 42            | 13.8    | 19.6    | 17.7    | R-134a  | 50          |
| CPX-30   | 30             | 240           | 115/60/1           | 44            | 13.8    | 19.6    | 17.7    | R-134a  | 47          |
| CPX-40   | 42             | 240           | 115/60/1           | 55            | 13.8    | 19.6    | 17.7    | R-134a  | 53          |
| CPX-60   | 65             | 240           | 115/60/1           | 59            | 13.8    | 19.6    | 17.7    | R-134a  | 53          |
| CPX-80   | 83             | 240           | 115/60/1           | 97            | 14.6    | 19.6    | 30.1    | R-404A  | 57          |
| CPX-100  | 106            | 195           | 115/60/1           | 97            | 14.6    | 19.6    | 30.1    | R-404A  | 57          |
| CPX-125  | 127            | 195           | 115/60/1           | 117           | 18.1    | 22      | 31.1    | R-404A  | 58          |
| CPX-150  | 145            | 195           | 115/60/1           | 132           | 18.1    | 22      | 31.1    | R-404A  | 58          |
| CPX-180  | 184            | 195           | 115/60/1           | 145           | 18.1    | 22      | 31.1    | R-404A  | 58          |
| CPX-225  | 200            | 195           | 230/60/1           | 176           | 22.8    | 23.2    | 35.4    | R-404A  | 59          |
| CPX-270  | 230            | 195           | 230/60/1           | 176           | 22.8    | 23.2    | 35.4    | R-404A  | 59          |
| CPX-350  | 270            | 195           | 460/60/3           | 282           | 28.9    | 35.4    | 37.9    | R-410A  | 60          |
| CPX-425  | 360            | 195           | 460/60/3           | 321           | 28.9    | 35.4    | 37.9    | R-410A  | 67          |
| CPX-530  | 500            | 195           | 460/60/3           | 348           | 28.9    | 35.4    | 37.9    | R-410A  | 67          |
| CPX-700  | 600            | 195           | 460/60/3           | 363           | 28.9    | 35.4    | 37.9    | R-410A  | 68          |
| CPX-850  | 860            | 195           | 460/60/3           | 737           | 40.2    | 42.6    | 60.4    | R-404A  | 70          |
| CPX-1000 | 1000           | 195           | 460/60/3           | 759           | 40.2    | 42.6    | 60.4    | R-404A  | 71          |
| CPX-1200 | 1216           | 195           | 460/60/3           | 777           | 40.2    | 42.6    | 60.4    | R-404A  | 71          |
| CPX-1500 | 1398           | 195           | 460/60/3           | 836           | 40.2    | 44.2    | 60      | R-404A  | 71          |
| CPX-1700 | 1760           | 195           | 460/60/3           | 880           | 40.2    | 82.6    | 60.4    | R-404A  | 74          |
| CPX-2500 | 2400           | 195           | 460/60/3           | 891           | 40.2    | 82.6    | 60.4    | R-404A  | 74          |

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

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

Reference conditions CPX225-CPX2500: 100°F ambient, 100° inlet, 100 psig, 38°F pressure dewpoint

## Automatic Condensate Drain



All models are equipped with a smart condensate discharger. Carefully sized for each model, it assures exceptional reliability and efficiency in discharging water, without compressed air. In case of malfunction, an alarm signal is displayed.

- It discharges only water, NOT compressed air.
- Silent, eliminating noise pollution.

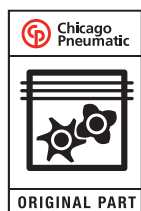


## Over 100 years of experience

Since 1901 the Chicago Pneumatic name has represented high-performance tools and equipment designed for an extensive range of applications. Today, Chicago Pneumatic has a global reach, with local customer centers around the world. Chicago Pneumatic products are tailored to the needs of the industrial, vehicle service, and construction markets. Every day we develop and manufacture new products that are meant to meet your demands not only today, but tomorrow as well.

To learn more about our extensive range of tools, hydraulic attachments, industrial and portable compressors, accessories and workshop equipment, please visit [www.cp.com](http://www.cp.com).

CP compressors are supported by a network of trained service technicians who can provide complete warranty support, spare parts and technical consultation. For more information on our products, please contact your CP territory sales manager or a local authorized CP distributor.



## Original parts. Your quality assurance.

The "original part" identification confirms that these components passed our strict test criteria. All parts are designed to match the 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 the quality assurance seal.

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The Compressed Air and Gas Institute, CAGI, is an organization dedicated to improving the compressed air industry through established standards. As a proud member of CAGI, CP Compressors publishes all technical data in accordance with CAGI/PNEUROP PN2CPTC2 guidelines and voluntarily allows products to be selected for participation in CAGI's Performance Verification Program. With CP Compressors, our customers know they are receiving the excellent performance that we publish.



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