CHAMPION

HIGH INLET TEMPERATURE REFRIGERATED AIR DRYERS | 20–125 SCFM

# CRH Series

# High Inlet Temperature Refrigerated Compressed Air Dryers


## Space-Saving Design for Use with Reciprocating Compressors up to 30 HP

Gardner Denver specializes in delivering the best air quality for all working environments. Designed to work with reciprocating compressors, the CRH Series is ideally suited for auto body shops, auto service centers, and light industrial facilities with 5 to 30 horsepower compressors. A unique heat exchanger allows the dryer to accept high inlet temperatures, up to 180° F (82° C). This allows compressed air users to send high temperature air straight from their compressor directly to the CRH Series refrigerated dryer. Separate aftercooler and separator installations are no longer necessary. This provides important savings in installation space and installation time. The models match to most reciprocating compressor sizes and can also be easily sized if the compressor already has a tank-mounted air-cooled aftercooler.

## CRH Series Features

- Stainless steel heat exchangers with high heat transfer coefficients allow inlet temperatures to 180° F (82° C). All models feature air-to-air and air-to-refrigerant heat exchangers.
- Adjustable timed electric drain—valve open and closed time—reliably discharges condensate from the dryer
- Widely spaced Inlet/Outlet connections, flow direction stamped into cabinet, for ease of installation and filter mount
- Instrumentation with lighted compressor On/Off switch, dew point temperature indicator and fault light
- Top mount fan, upward condenser air flow allows installation in tight spaces
- Bottom base rail with pre-drilled mounting holes for secure floor mount
- Quick release front panel for ease of access to dryer internals for routine maintenance

## Reduce Overhead Costs

Removing water, solid particulates and oil from your compressed air system has many benefits which all lead to increased productivity and reduced overhead costs. One typical use for compressed air is for painting. Modern refinish materials and spray guns deliver superior paint finishes. Moisture and oil in the compressed air will result in paint rejects and lead to unnecessary purchases of extra unthinned color-coat paints, thinners and hardeners.

## CALCULATE THE COST OF PAINT REJECTS

| COST OF LABOR, MATERIALS & THROUGH-PUT DELAYS | | PAINT REJECTS PER WEEK × NUMBER OF WEEKS | COST OF PAINT REJECTS |
|---|---|---|---|
| $150 | × | 1 × 52 | **= $7,800** |
| $150 | × | 2 × 52 | **= $15,600** |
| $200 | × | 1 × 52 | **= $10,400** |
| $200 | × | 2 × 52 | **= $20,800** |

## SPECIFICATIONS

| MODEL | FLOW CAPACITY | POWER REQUIREMENTS | | IN/OUT CONNECTIONS | REFRIGERANT COMPRESSOR CAPACITY | REFRIGERANT TYPE** | MAX WORKING PRESSURE | | MAX INLET TEMPERATURE | | AMBIENT TEMPERATURE RANGE*** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SCFM* | V/PH/HZ | KW | NPT | BTU/HR | | PSIG | BAR | °F | °C | °F | °C |
| CRH20 | 20 | 115/1/60 | 0.69 | 3/4" | 4982 | R-134a | 42–227 | 3.0–16.0 | 40–180 | 4–82 | 40–180 | 4–82 |
| CRH25 | 25 | 115/1/60 | 0.69 | 3/4" | 4982 | R-134a | | | | | | |
| CRH35 | 35 | 115/1/60 | 0.99 | 3/4" | 9724 | R-407c | | | | | | |
| CRH50 | 50 | 115/1/60 | 0.83 | 1" | 12420 | R-407c | | | | | | |
| CRH75 | 75 | 115/1/60 | 1.13 | 1" | 12420 | R-407c | | | | | | |
| CRH125 | 125 | 230/1/60 | 1.97 | 1" | 19300 | R-407c | | | | | | |

*Rating conditions are 180°F inlet temperature, 125 psig inlet pressure, 100% inlet relative humidity, 100°F ambient temperature.
**Refer to dryer data plate for refrigerant charge.
***To ensure optimal performance, do not operate continuously in conditions below or above max/min specifications.

## DIMENSIONS

| MODEL | H | | W | | D | | WEIGHT | |
|---|---|---|---|---|---|---|---|---|
| | IN | MM | IN | MM | IN | MM | LBS | KG |
| CRH20 | 29 | 744 | 14 | 366 | 17 | 430 | 100 | 45 |
| CRH25 | 29 | 744 | 4 | 366 | 17 | 430 | 100 | 45 |
| CRH35 | 29 | 744 | 14 | 366 | 17 | 430 | 106 | 48 |
| CRH50 | 41 | 1044 | 18 | 447 | 17 | 430 | 125 | 57 |
| CRH75 | 41 | 1044 | 18 | 447 | 17 | 430 | 130 | 59 |
| CRH125 | 46 | 1166 | 18 | 447 | 17 | 430 | 153 | 69 |

Champion is committed to delivering superior products built with the exceptional standards you expect.

CHAMPION®

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Product specifications and materials are subject to change without notice.

Please recycle after use.