CD425-D DEHUMIDIFIER

SPECIFICATIONS

Specifications	CD425-D	CD425-D	CD425-D	CD425-D
Model No.	10140BR-US	10141BR-US	10142BR-US	10143BR-US
Height	47.0" (1193mm)	47.0" (1193mm)	47.0" (1193mm)	47.0" (1193mm)
Width	43.0" (1092mm)	43.0" (1092mm)	43.0" (1092mm)	43.0" (1092mm)
Depth	19.0" (482mm)	19.0" (482mm)	19.0" (482mm)	19.0" (482mm)
Weight	353 lbs (160kg)	353 lbs (160kg)	353 lbs (160kg)	353 lbs (160kg)
Voltage	220V	220V	440V	440V
Phase	3	3	3	3
Frequency	60 Hz	60 Hz	60 Hz	60 Hz
Current	16 A	16 A	8 A	8 A
Power	3680W	3680W	3680W	3680W
Airflow	1,750cfm (2,975m3/hr)	1,750cfm (2,975m3/hr)	1,750cfm (2,975m3/hr)	1,750cfm (2,975m3/hr)
Noise Level	69 dba	69 dba	69 dba	69 dba
Refrigerant	R454c	R454c	R454c	R454c
Effective Volume	52,970 cu.ft (1,500 m3)	52,970 cu.ft (1,500 m3)	52,970 cu.ft (1,500 m3)	52,970 cu.ft (1,500 m3)
Typical Extraction	285 ppd	285 ppd	285 ppd	285 ppd
Minimum Operating Temp	33°F (1°C)	33°F (1°C)	33°F (1°C)	33°F (1°C)
Maximum Operating Temp	95°F (35°C)	95°F (35°C)	95°F (35°C)	95°F (35°C)

Features	CD425-D	CD425-D
Model No.	10146BR-US 10148BR-US	10147BR-US 10149BR-US
On/Off Control	✔	✔
Electronic Defrost Control	✔	✔
Compressor Restart Delay Timer	✔	✔
Compressor Type	Reciprocating	Reciprocating
Free Standing	✔	✔
Adjustable Control Humidistat	✔	✔
Reverse Cycle Defrost System	✔	✔
Status Indicators	✔	✔
High Capacity Water Pump	-	✔
Power On Indicator	✔	✔
Epoxy Powder Coating	✔	✔
Gravity Drain (2 X 5/8" O/D)	✔	-

APPLICATION

The EIPL CD425-D range of units were developed to serve the demands of industry for environmental control of very large areas in addition to areas affected by severe conditions. Warehouses, factories, offices and other large scale facilities with ambient temperatures ranging from 33°F to 95°F can be cured of humidity and condensation problems efficiently and automatically without over burdening costly heating, cooling and ventilation systems. The CD425-D units can be utilized singly or in multiple units to provide protection on any scale. Ducted applications are possible where design requirements specify.

KEY DESIGN FEATURES

- Digital Humidity Control
- Welded steel chassis with baked epoxy-coated and vinyl coatings for abrasion and corrosion resistance
- An adjustable humidistat to control the level of dryness desired
- System lamps to report the operating status of the unit
- EIPL's unique "Reverse Cycle" defrosting system, for effective operation in low ambient temperatures down to 33°F
- Ductability
- Rugged design for harsh industrial environments

OPTIONS

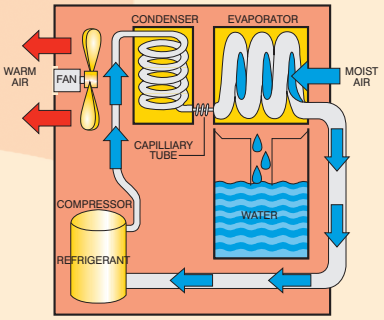
- Available in 460V Power Supply (8 Amp)
- Internal High Capacity Condensate Pump
- Low Temperature Operation, Down to 0°F

EIP INC

A FULL RANGE OF HIGH CAPACITY LOW TEMPERATURE DEHUMIDIFIERS FOR INDUSTRY, INSTITUTIONS, WAREHOUSES

HOW A DEHUMIDIFIER WORKS

1. Air is drawn into the unit by a fan
2. Air passes over a cold surface
3. As the air is cooled, it's moisture condenses
4. Water falls into the container
5. Air is re-heated by the heat recovery system
6. Air passes back into room 2°C warmer and considerably dryer
7. Defrost system automatically de-ices unit as necessary
8. Unit switches off automatically when container is full
9. When the unit achieves the selected level of dryness it switches off automatically



Applications	CD425-D	CD425-D
Model No.	10146BR-US 10148BR-US	10147BR-US 10149BR-US
Warehouse	✔	✔
Basements	-	✔
Factories	✔	✔
Sports Halls	✔	✔
Storage Areas	✔	✔
Laboratories	✔	✔

Applications	CD425-D	CD425-D
Model No.	10146BR-US 10148BR-US	10147BR-US 10149BR-US
Oil Rigs	✔	✔
Agriculture	✔	✔
Pumping Stations	✔	✔
Stadiums	✔	✔
Ships / Barges	✔	✔

PROVEN PERFORMANCE

The EIPL CD425-D range of dehumidifiers are "stand alone" units that can handle the extra load encountered in the typical humid, industrial settings. Under maximum conditions, the CD425-D will condense and remove up to 50 gallons of water vapor per day – day after day. With "Reverse Cycle" defrosting, this workhorse can function smoothly in a cold, wet location, without the limitations of frost buildup.

THE PROBLEM

Excess humidity in your crawl space, warehouse, office, factory or shop results in corrosion, mold growth and rotting. Enormous costs are incurred every year through damage to inventory and through inflated building maintenance costs as a result of dampness. Even if your building seems dry during the day, at night when the temperature falls the humidity rises and the condensation process begins. The compact physical size, and high performance, makes the CD425-D the ideal choice.

THE DEHUMIDIFIER

EIPL dehumidifiers are effective solutions to environmental control problems. The CD425-D range of units are high capacity dehumidifiers, made to operate at high efficiencies by removing moisture from the air through the refrigeration process. The fan draws the moist air through the cold evaporator coil, which cools the air below its dew point. Moisture forms on the evaporator coil and is collected in the condensate tray, which is equipped with an internal condensate pump for easy removal of collected moisture. The cooled air then passes through the hot condenser coil where it is reheated using the same energy removed during the cooling phase, plus the additional heat generated by the compressor. The air is, therefore, discharged from the dehumidifier at a slightly higher temperature with a lower absolute humidity than that which entered. Continuous circulation of air through the dehumidifier gradually reduces the relative humidity within the area. The CD425-D allows a specific humidity level to be entered and also provides an actual display of the room humidity level. The CD425-D range of units will self regulat the drying required, and automatically switch on and off to save energy and expense by maintaining the desired level of humidity with intermittent operation.

Ebac Industrial Products Incorporated, 700 Thimble Shoals Blvd.
Suite 109, Newport News, VA 23606-2575

Tel: (757) 873-6800 Fax: (757) 873-3632 www.ebacusa.com

EIP INC