

# CD100 & CD100E DEHUMIDIFIER

## SPECIFICATIONS

Specifications	CD100	CD100E
Model No.	1133560	1027500
Height	16.0" (406mm)	16.0" (406mm)
Width	36.0" (914mm)	36.0" (914mm)
Depth	20.0" (508mm)	20.0" (508mm)
Weight	135 lbs (61kg)	135lbs (61kg)
Voltage	110 V	110V
Phase	1	1
Frequency	60 Hz	60 Hz
Current	16 A	16 A
Power	1090 W	1090 W
Airflow	700cfm (1190m3/hr)	700cfm (1190m3/hr)
Noise Level	66 dba	66 dba
Refrigerant	R407c	R407c
Effective Volume	10,594 cu.ft (300m3)	10,594 cu.ft (300m3)
Typical Extraction	97 ppd	97 ppd
Minimum Operating Temp	33°F (1°C)	33°F (1°C)
Maximum Operating Temp	95°F (35°C)	95°F (35°C)

Features	CD100	CD100E
Model No.	1133560	1027500
On/Off Control (Via The Humidistat)	✓	✓
Electronic Defrost Control	✓	✓
Compressor Type	Reciprocating	Reciprocating
Fitted Mains Plug	✓	✓
Free Standing	✓	✓
Wall Mounting Bracket (✓ = Inc, O = Optional)	O	✓
Adjustable Control Humidistat	✓	✓
Reverse Cycle Defrost System	✓	✓
Hours Run Meter	-	✓
High Level Cut-out Switch	✓	✓
Voltage Free Remote Alarm Connector	-	✓
Carrying Handle / Skid	✓	-
Power On Indicator	-	✓
Concealed Humidistat (Alarm & Control)	-	✓
Adjustable Alarm Humidistat	-	✓
Epoxy Powder Coating	✓	✓
Gravity Drain (1/2" O/D)	✓	✓

## APPLICATION

The EIPL CD100 range are versatile workhorses, designed to eliminate high humidity problems in harsh environments. Warehouses, storage rooms, electrical and communications switching stations, locker rooms, basements, pumping stations, offshore oil rigs and active and laid-up marine vessels have all found this rugged range of units to be more than adequate for the tasks.

The impressive CD100 range can be easily moved from site to site, or can be permanently mounted and ducted to suit a variety of applications.

## KEY DESIGN FEATURES

- A rugged epoxy-coated, steel chassis.
- A "floating" compressor for vibration and mobility protection.
- An adjustable humidistat to control the level of dryness desired.
- System lamps to tell the operating status of the unit at a glance.
- EIPL's unique "Reverse Cycle" defrosting system, for effective operation in low ambient temperatures.
- Standard 115V power requirements for operation in any location.

## CD100E - ADDITIONAL FEATURES

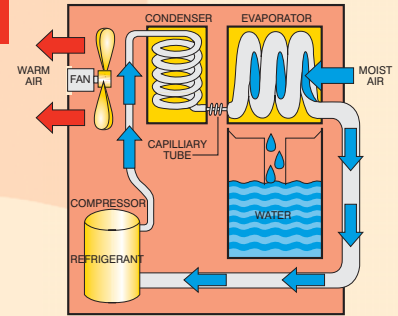
- Adjustable Alarm Humidistat and "voltage free" connector.
- Power On Indicator.
- Hours Run Meter provides accurate run time measuring.
- Supplied Complete with wall mounting bracket.



**A FULL RANGE OF HIGH CAPACITY LOW TEMPERATURE DEHUMIDIFIERS FOR INDUSTRY, INSTITUTIONS, RENTAL HOMES**

## 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, its 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	CD100	CD100E
Model No.	1133560	1027500
Warehouse	✓	✓
Basements	-	✓
Factories	✓	✓
Sports Halls	✓	-
Storage Areas	✓	✓
Laboratories	✓	✓
Oil Rigs	✓	✓

Applications	CD100	CD100E
Model No.	1133560	1027500
Agriculture	✓	-
Kitchens	✓	-
Pumping Stations	✓	✓
Hotel / Motel	✓	-
Stadiums	✓	✓
Ships / Barges	✓	-

### PROVEN PERFORMANCE

Because of EIPL's unique "Reverse Cycle" defrosting feature, the CD100 range of units will function smoothly in temperatures down to 33°F without frost build-up. Designed to survive under adverse conditions and to deliver the goods, this unit will effectively remove more than ninety pints of airborne water vapor per day under standard conditions (80°F, 60%RH), and will exceed 20 gallons per day under extreme conditions found in problem environments.

### 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 CD100 family the ideal choice.

### THE DEHUMIDIFIER

EIPL dehumidifiers are effective solutions to environmental control problems. The CD100 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 before draining away through the condensate tube. 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. Because the CD100 range of units are equipped with an internal humidistat, they automatically switch on and off to save energy and expense by maintaining the desired level of humidity with intermittent operation.

The additional features of the CD100E make the unit the ideal choice for installations where remote monitoring is required. The alarm humidistat can be adjusted and preset during the installation process and will provide means of identifying a high humidity condition. This unit is also supplied complete with a wall mount bracket



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

