

# SPECIFICATIONS

Specifications	CS90-E	CS90-H	Features	CS90-E	CS90-H
Model No.	10590GE-US	10590GH-US	Model No.	10590GE-US	10590GH-US
Height	15" (386mm)	15" (386mm)	On/Off Control	✓	✓
Width	14" (353mm)	14" (353mm)	Electronic Humidity Controller	✓	✓
Depth	22" (564mm)	22" (564mm)	Integral Humidity Sensor	✓	✓
Weight	83.7 lbs (38kg)	83.7 lbs (38kg)	Smartphone Interface	✓	X
Voltage	110 V	110 V	Datalogging Facility	✓	X
Phase	1	1	High Lift Condensate Pump	✓	✓
Frequency	60 Hz	60 Hz	Electronic Defrost Control	✓	✓
Current	7 A	7 A	Compressor Type	Rotary	Rotary
Power	880W	880W	High Capacity Fan	✓	✓
Airflow	360cfm (608m3/hr)	360cfm (608m3/hr)	Fitted Mains Plug	✓	✓
Noise Level	57 dba	57 dba	Rubber Anti-Vibration Feet	✓	✓
Refrigerant	R407c	R407c	Hot Gas Defrost System	✓	✓
Effective Volume	8,369 cu.ft (237m3)	8,369 cu.ft (237m3)	Washable Air Filter	✓	✓
Typical Extraction	70 ppd	70 ppd	Quick Release Hose Connector	✓	✓
Minimum Operating Temp	33°F (1°C)	33°F (1°C)	Moulded Carrying Handles	✓	✓

## APPLICATION

The EIPL CS90 commercial/industrial dehumidifier was designed to provide energy efficient humidity control in a wide range of applications including offices, laboratories, apartments, storage areas, restaurants, bars, museums, locker rooms, computer, telecommunication rooms and basements. It is a quiet, high efficiency, high capacity unit designed to suit your HVAC needs. The range of EIPL dehumidifiers are ideally suited to prevent condensation from forming on windows, walls and ceilings by removing excess moisture. They will also stop mold and mildew and eliminate rust and corrosion.

## KEY DESIGN FEATURES

- Electronic Humidistat and sensor
- Integral high lift condensate pump
- EIP's unique "Hot Gas" defrosting feature which automatically melts away frost buildup providing effective operation at low ambient temperatures.
- Rugged, epoxy powder-coated steel chassis and housing.
- High efficiency rotary compressor.
- Simplicity of installation and operation.
- Extra long power cord.
- Concealed handles.

## CS90-E ADDITIONAL FEATURES

- Smartphone interface
- Datalogging facility



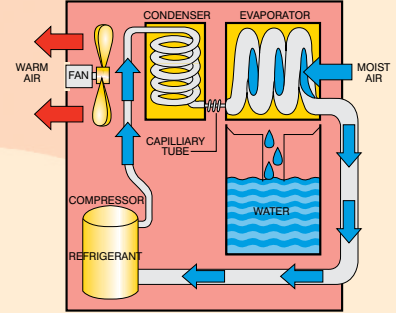
# CS90-E & CS90-H DEHUMIDIFIER



HIGH CAPACITY • COMPACT • LOW TEMPERATURE  
INDUSTRIAL INSTITUTIONS • RENTALS • 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, 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	CS90-E	CS90-H
Model No.	10590GE-US	10590GH-US
Offices	✓	✓
Laboratories	✓	✓
Apartments	✓	✓
Storage Areas	✓	✓
Restaurants	✓	✓

Applications	CS90-E	CS90-H
Model No.	10590GE-US	10590GH-US
Bars	✓	✓
Museums	✓	✓
Locker Rooms	✓	✓
Computer Rooms	✓	✓
Basements	✓	✓

## PROVEN PERFORMANCE

The EIPL CS90 dehumidifier is a stand alone solution to your humidity problem. The unit is supplied with a internal electronic humidistat, extra long power cord and integral high lift condensate pump. This preassembly makes the installation process simplistic, thereby reducing the overall installation and project cost. The high efficiency Rotary compressor ensures the maximum extraction with the lowest running costs. The rubber anti-vibration feet ensure any vibration is kept to a minimum and not transmitted to / from the unit.

## 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 CS90 the ideal choice for areas which require humidity control.

## THE DEHUMIDIFIER

EIPL dehumidifiers are effective solutions to environmental control problems. The CS 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. 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 CS ranges of units are equipped with an internal electronic humidistat, they automatically switch on and off to save energy and expense by maintaining the desired level of humidity with intermittent operation.

The small compact size of the CS90 products, and remote monitoring feature (via a smartphone app) of the CS90-E, make the unit and the ideal choice for installations where access is limited i.e. loft installations, crawl spaces etc.



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