DD400-E
Dehumidifier

KEY DESIGN FEATURES

DD400-E

- Manual / Automatic Control
- Hours Run Meter
- Ammeter
- Remote Humidistat Facility
- High Capacity Backward Curved Fan
- Process Air Inlet Filter
- Regeneration Air Inlet Filter
- Moulded Carrying Handles

PHARMACEUTICAL, CONFECTIONARY, DEFENCE INDUSTRY, WATER DAMAGE, COLD STORES, POWER STATIONS, PLASTICS.

SPECIFICATIONS

SPECIFICATIONS	DD400-E 10500GR-GB
Height (mm)	362
Width (mm)	369
Depth - Excluding Spigots (mm)	473
Weight (kg)	27
Voltage (V)	230
Phase	1
Frequency (Hz)	50
Current (A)	8
Power (KW)	2.2
Process Airflow (m3/hr)	370
Regen Airflow (m3/hr)	150
Process Duct Size (mm)	125
Regen Duct Size (mm)	80
Typical Extraction @ 27°C 60% (l/d)	34
Min Operating Temp (°C)	-20
Max Operating Temp (°C)	40

FEATURES	DD400-E 10500GR-GB
On/Off Control	✔
Ammeter	✔
Electronic Controls	✔
Manual / Automatic Mode Selection	✔
Remote Humidity Sesnor Facility	✔
Hours Run Meter	✔
Fitted 13A Mains Plug	✔
Fan Speeds	1
High Capacity PTC Heater	✔
Process & Regen Air Filter	✔
Rubber Anti Vibration Feet	✔
Dual Air Inlet Desigh	✔
Free Standing	✔
Humidistat	O
Carrying Handles	✔
Inlet Duct Attachements	O

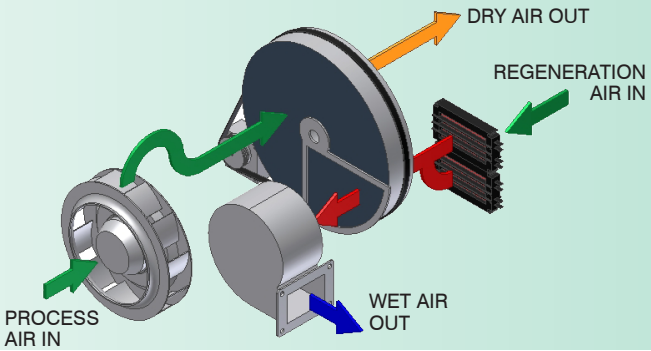
HOW A DESICCANT DEHUMIDIFIER WORKS

The Silica Gel wheel is continually, slowly rotating, typically at three revolutions per hour.

As the wheel rotates, a small portion passes through the regeneration segment.

During this phase a second air stream (Regeneration Air) is heated to a high temperature before passing over the wheel.

Any moisture present in the wheel is released into this air stream, this hot wet air is then exhausted outside the area being dried.



WHY THE NEED FOR A DEHUMIDIFIER ?

Dehumidifiers are required wherever there is a need to lower the humidity level to prevent corrosion, mould growth and condensation or maintain a low humidity condition during manufacture, packaging or storing of hygroscopic products.

APPLICATIONS	DD400-E
Offices	✔
Shops	✔
Restaurants	✔
Food Industry	✔
Hospitals	✔
Cold Stores	✔
Laboratories	✔
Pharmaceutical	✔
Defence Industry	✔

METHODS OF DEHUMIDIFICATION

Dehumidification is possible using two possible principles, Condensation with refrigeration style dehumidifiers and Adsorption with desiccant dehumidifiers.

Desiccant dehumidifiers perform exceptionally well when used in cooler climates, or when a low dew-point, deep drying or low humidity levels are required. Since desiccant dehumidifiers do not produce water, they will work effectively down to sub zero temperatures.

Their operation is simplistic yet extremely effective and reliable. Air (Process Air) is drawn into the dehumidifier, where is passes over a wheel impregnated with Silica Gel. As the air passes over this wheel, any moisture present in the air, is absorbed into the Silica Gel wheel before leaving the dehumidifier as warm dry air.

WHY CHOOSE EIPL ?

EIPL is Europe's leading manufacturer of dehumidifiers and is a name you can rely on. No matter how extreme the conditions EIPL's efficiency copes comfortably even at the coldest temperatures.

RUGGED CONSTRUCTION

Over thirty seven years of development experience means you can rely on the proven track record of the EIP range of dehumidifiers. Every dehumidifier is designed for efficiency and ruggedness, and built to last. The popularity of EIP Ltd's dehumidifiers with the plant hire trade speaks for their reliability, portability and outstanding durability.

DD400-E

The DD400-E portable desiccant dehumidifier has a compact, rugged, lightweight design which facilitates easy transportation by one person, and is easily accommodated within space restricted areas. The unit incorporates a PTC Heater ensuring maximum drying is immediately reached, and constantly maintained while the unit is running.

THE DEHUMIDIFIER

The dual air inlet feature of the DD400-E, is ideal for installations where the regeneration supply air, needs to be kept separate from the process supply air. An Integral electronic humidistat is fitted as standard, allowing the humidity level to be set and monitored.

The EIP DD400-E desiccant dehumidifier is manufactured from a high grade steel, and electrostatic epoxy power coated, ensuring a rust free product when used in the most sever of applications The spigot connectors allow quick and easy installation

All models incorporate a high efficiency patented PPS Rotor. This design incorporates a 82% active Silica Gel to ensure optimum performance over the equipments wide operating range of environments. All desiccant rotors supplied by EIPL are washable, and designed for high performance / long life.

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