

DD400 DESICCANT DEHUMIDIFIER

SPECIFICATIONS

SPECIFICATIONS	10500SS-US
Height	16.5" (420 mm)
Width	15.75" (400 mm)
Depth	21.25" (540mm)
Weight	59.5lbs (27kg)
Voltage	220 V
Current	8 A
Phase	1
Frequency	60 Hz
Power	1.8 kW
Process Airflow – Dry Air	197 cfm (334 m3/hr)
Regen Airflow – Wet Air	119 cfm (202 m3/hr)
Process Duct Size – Dry Air	5" (130 mm)
Regen Duct Size – Wet Air	4" (100 mm)
Rotor Wheel Speed (rph)	20
Noise Level	67 dba
Typical Extraction @ 27°C 60%	71.5 ppd (33.8 lt/day)
Min Operating Temperature	-4 °F (-20°C)
Max Operating Temperature	104 °F (40°C)

FEATURES	10500SS-US
On/Off Control	✓
Ammeter	✓
Electronic Controls	✓
Manual / Automatic Mode Selection	✓
Remote Humidity Sensor Facility	✓
Hours Run Meter	✓
Fitted Mains Plug	✓
Fan Speeds	1
High Capacity PTC Heater	✓
Process / Regen Air Filter	✓
Rubber Anti-Vibration Feet	✓
Dual Air Inlet Design	✓
Free Standing	✓
Humidistat	○
Carrying Handles	✓
Stainless Steel Construction	✓
Inlet Duct Attachments	○
High Temperature Safety Cut-outs	✓

APPLICATION

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

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 it 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.

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.

KEY DESIGN FEATURES

- Stainless Steel Construction
- Auto / Manual Mode Selection
- Electronic Controls
- High Capacity PTC Heater
- Remote Humidistat Facility
- Low Temperature Operation
- Ammeter



**PHARMACEUTICAL, CONFECTIONARY, DEFENSE INDUSTRY,
WATER DAMAGE, COLD STORES, POWER STATIONS, PLASTICS**

HOW A DEHUMIDIFIER WORKS

Process air is drawn into the dehumidifier.

Process air passes over a wheel impregnated with silica gel.

The silica gel absorbs the moisture from the air.

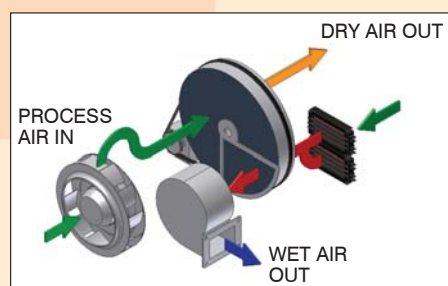
Process air leaves the dehumidifier as warm dry air.

The silica gel wheel continually rotates.

Regeneration air is heated to a high temperature and passed over a segment of the wheel.

Silica gel releases the moisture from the wheel into the regeneration air.

Regeneration air leaves the dehumidifier as warm wet air and exhausted outside.



Applications	DD400
Offices	✓
Shops	✓
Restaurants	✓
Warehouses	✓
Basements	✓
Factories	✓
De-Flooding	✓
Pharmaceutical	✓
Defense Industry	✓
Confectionary	✓

Applications	DD400
Laboratories	✓
Medical	✓
Food Industry	✓
Agriculture	✓
Cold Stores	✓
Hospitals	✓
Hotels	✓
Stadiums	✓
Ships	✓

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 & YEARS OF SERVICE

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

The DD400 is the largest desiccant dehumidifier within the EIPL range. It's compact, rugged, lightweight design 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.



In addition to the hours run meter, which shows the units running time, an ammeter is also incorporated in order to monitor the units drying effectiveness. Manual / Automatic control is a standard feature within the DD range of desiccant dehumidifiers, and a remote humidistat can quickly and easily be connected for automatic operation and control.

The EIP range of DD desiccant dehumidifiers are all manufactured from a high grade stainless steel, ensuring a rust free product when used in the most severe of applications. The spigot connectors allow quick and easy installation.

All models incorporate a high efficiency patented PPS Rotor. This design incorporates an 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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