DD1200+ DESICCANT DEHUMIDIFIER

SPECIFICATIONS

SPECIFICATIONS	10690GR-US	10691GR-US
Height (inch)	58	58
Width (inch)	29	29
Depth (inch)	24.5	24.5
Weight (lbs)	200	200
Voltage (V)	220	460
Current (A)	31	15
Phase	3	3
Frequency (Hz)	60	60
Power (kW)	11.8	11.8
Process Airflow Maximum – Dry Air (cfm)	883	883
Process Airflow Nominal – Dry Air (cfm)	705	705
Regen Airflow Nominal – Wet Air (cfm)	195	195
Process Air Outlet Dia (inch)	8	8
Regen Air Outlet Dia (inch)	6	6
Rotor Wheel Speed (rph)	13.6	13.6
Rotor Size dia X depth (inch)	13.8 X 7.9	13.8 X 7.9
High Extraction Setting @ 27°C 60% (ppd)	562	562
High Efficiency Setting @ 27°C 60% (ppd)	402	402
Deep Drying Settings @ 27°C 60% (ppd)	508	508
Typical Dry Air Off – High Extraction Setting (%)	9	9
Typical Dry Air Off – High Efficiency Setting (%)	12	12
Typical Dry Air Off – Deep Drying Settings (%)	5	5
Min Operating Temperature (°F)	-4	-4
Max Operating Temperature (°F)	104	104

FEATURES	DD1200+
PLC Control	✔
Manual / Automatic Mode Selection	✔
Remote Humidity Sensor Facility	✔
Easy Access / Inboard Air Filters	✔
Filter Monitoring	✔
Belt Tension Monitoring	✔
High Temperature Safety Cut-outs	✔
EC High Efficency Fans	✔
Variable Fan Speeds	✔
High Capacity PTC Heaters	✔
Compatiable with Post Cooler Module	✔
Compatiable with Pre Heat Module	✔
Inlet / Outlet on the same face	✔
Free Standing	✔
Self Contained	✔
Stainless Steel Construction	O
Inlet Duct Attachments	✔

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 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.

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

- PLC Control
- Compatiable with Post Cooler and Pre Heat Modules
- Infinitely Variable EC Fan Speed

iP INC

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.

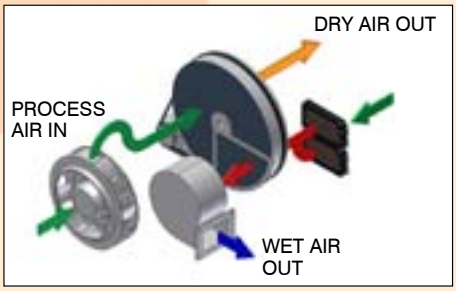
Process air leaves the dehumidifier as warm dry air.

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	DD1200+
Offices	✔
Shops	✔
Restaurants	✔
Warehouses	✔
Basements	✔
Factories	✔
De-Flooding	✔
Pharmaceutical	✔
Defense Industry	✔
Confectionary	✔

Applications	DD1200+
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.

DD1200+

The DD1200+ is an extension to the standard DD1200 range, The "+" versions offers the user a totally PLC based control system, filter cleanliness monitoring and belt tension monitoring, and also the ability to interface to the EIPL energy saving, Pre Heat and Post Cool modules. The DD Range incorporates high capacity PTC heaters, ensuring maximum drying is immediately reached and constantly maintained while the unit is running. The DD1200+ incorporates two EC fans with variable speed allowing the unit to be easily installed, and commissioned in a wide variety of installations. Temperature control via the PLC, allows the user to select the desired drying level ie, high efficiency drying, deep drying, or high extraction, the following table provides an example of settings and capacities.

80°F 60% - Example Settings	High Extraction	High Efficiency	Deep Drying
Process Airflow (cfm)	824	706	589
Regen Airflow (cfm)	235	194	235
Regen Temperature Rise (°F)	230°F (110°C)	194°F (90°C)	230°F (110°C)
Extraction (ppd)	562	402	508
Dry Air Off (%)	9	12	5

Facility for an external humidistat allows remote control of the drying cycle 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.

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