# **SPECIFICATIONS**

SPECIFICATIONS	10540GR-US	10541GR-US
Height (inch)	56	56
Width (inch)	28	28
Depth (inch)	23	23
Weight (lbs)	200	200
Voltage (V)	220	460
Current (A)	30	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
On/Off Control	<b>/</b>
Adjustable Thermostat	<b>✓</b>
Electronic Controls	<b>/</b>
Manual / Automatic Mode Selection	<b>✓</b>
Remote Humidity Sensor Facility	<b>/</b>
Hours Run Meter	<b>/</b>
EC High Efficency Fans	V
Variable Fan Speeds	<b>/</b>
High Capacity PTC Heaters	<b>/</b>
Process / Regen Air Filter	<b>/</b>
Rubber Anti-Vibration Feet	<b>/</b>
Dual Air Inlet Design	<b>/</b>
Free Standing	V
Status Indicators	V
Self Contained	V
Stainless Steel Construction	0
Inlet Duct Attachments	0
High Temperature Safety Cut-outs	V

DD1200 DESICCANT DEHUMIDIFIER

### **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**

• EC High Efficency Forward Curve Fans
Infinitely Variable Fan Speed





# **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.

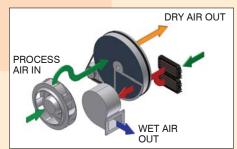
Process air leaves the dehumidifier as warm dry air.

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	<b>V</b>
Shops	V
Restaurants	<b>/</b>
Warehouses	<b>/</b>
Basements	<b>/</b>
Factories	<b>/</b>
De-Flooding	V
Pharmaceutical	V
Defense Industry	V
Confectionary	V

Applications	DD1200
Laboratories	V
Medical	V
Food Industry	<b>✓</b>
Agriculture	V
Cold Stores	V
Hospitals	V
Hotels	V
Stadiums	<b>✓</b>
Ships	V

#### WHY CHOOSE EIPL

## **RUGGED CONSTRUCTION &** EIPL is Europe's leading manufacturer YEARS OF SERVICE

of dehumidifiers and is a name Over thirty seven years of development experience means you can rely you can rely on. No matter how on the proven track record of the EIP range of dehumidifiers. Every extreme the conditions EIPL's dehumidifier is designed for efficiency and ruggedness, and built efficiency copes comfortably even to last. The popularity of EIP Ltd's dehumidifiers with the plant hire at the coldest temperatures. trade speaks for their reliability, portability and outstanding durability.

#### **DD1200**

The DD1200 is the largest desiccant dehumidifier within the EIPL range. The unit incorporates a high capacity resistive heater 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.

An electronic thermostat 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 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 (K)	110	90	110	
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. All desiccant rotors supplied by EIPL

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