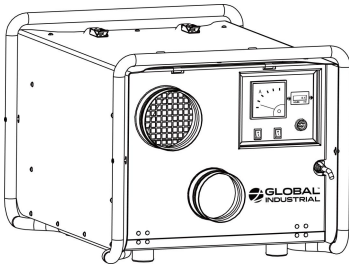


User's manual	Manual del usuario	Manuel de l'utilisateur
Customer Service US:1-800-645-2986	Servicio de atención al Cliente US: 1-800-645-2986	Service à la clientèle Canada: 888-645-2986

Desiccant Dehumidifier

Model: 604142



IMPORTANT INSTRUCTIONS



WARNING! Electric shock hazard, rotating fan, hot surface hazards.
Unplug unit before opening cover for cleaning or servicing.

- Keep motor and wiring dry. Keep out of standing water and do not install in area likely to be subject to water intrusion. Do not expose to rain, water or snow.
- Insert three-prong plug on power cord into a matching electrically grounded outlet. Do not remove or disable grounding/earth prong from plug.
- Do not use an extension cord.
- To reduce the risk of fire or electric shock, do not use this unit with any solid-state speed control device.

FIRE HAZARD

- Keep away from open flames and heat sources.
- Do not use or store where vapours from petrol, solvents, thinners or other flammable materials may be present.

WARNING! Unplug unit before cleaning or servicing.

- Turn off unit and unplug before lifting or moving.
- Handle the unit carefully. Always operate the unit on a stable, level surface. Do not drop, throw, or place where it could fall. Rough treatment can damage the unit, and may create a hazardous condition or void the warranty.
- Inspect the power cord before use. If cord is damaged, do not use. Always grasp the plug (not the cord) to unplug.
- This appliance must be earthed and should only be connected to an earthed 115VAC/60Hz mains supply.

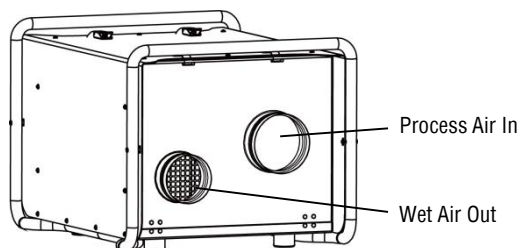
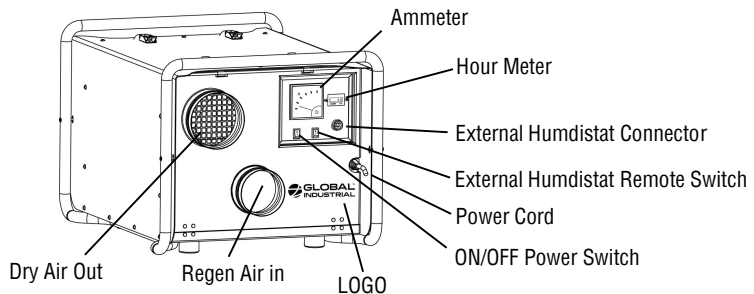
⚠️ WARNIN

Please read all instructions before using this

SAVE FOR FUTURE REFERENCE

Technical Specification	
Power Supply	115V/60Hz, 1450W/12.5A
80°F / 60% RH Capacity	105 pints/day
Working Temperature	-4°F~104°F
Air Flow(Dry Air Out)	250CFM
Air Flow(Wet Air Out)	100CFM
Unit Size(inch)	18.8x23.7x16.1
Net Weight(lbs)	72
Stackable	Yes

Part list



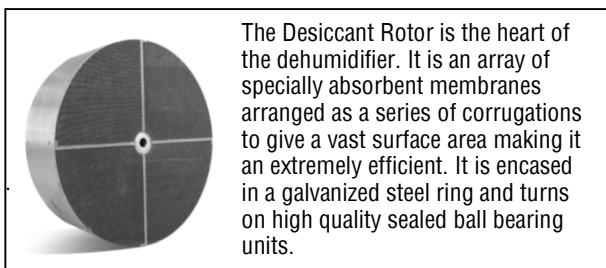
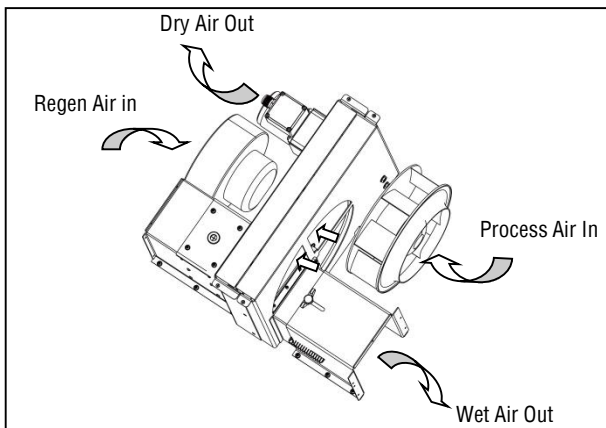
HOW IT WORKS

Desiccant dehumidifier removes moisture using a continuously rotating moisture absorbing wheel-this 'Desiccant Rotor' is literally a honeycomb of extremely hygroscopic membranes. A highly efficient yet low noise fan draws air into the unit (Process Air) and forces it through a portion of the absorbent rotor.

As the air passes through the rotor, the honeycomb of hygroscopic membranes absorb almost all of the moisture creating an extremely dry air stream; this air stream is discharged directly through the 'Dry Air Outlet'.

A second fan pushes a separate air stream (Regen Air) through a heater bank (Regen Heater) where its temperature is raised.

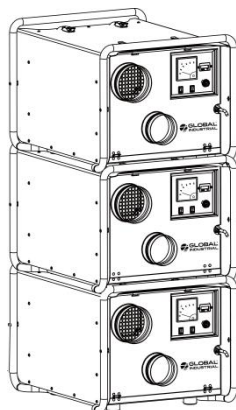
This air is then channeled back through a section of the rotor. As this air passes back through the membranes, its higher temperature drives-out the previously absorbed moisture and discharges it as warm wet air through the 'Wet Air Out' duct. As the wheel rotates, this process of collecting and discharging moisture is continuous.



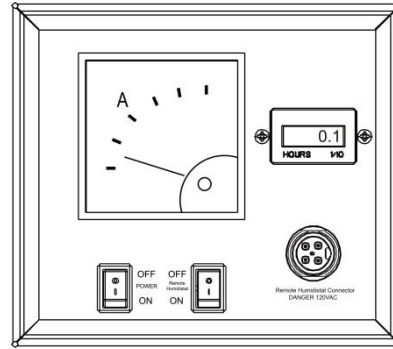
The Desiccant Rotor is the heart of the dehumidifier. It is an array of specially absorbent membranes arranged as a series of corrugations to give a vast surface area making it an extremely efficient. It is encased in a galvanized steel ring and turns on high quality sealed ball bearing units.

STORING THE UNIT

If necessary, stack machines as shown. Do not stack more than 3 machines high. Be sure to secure the machines to ensure they do not fall or move.



OPERATION



● STAND-ALONE OPERATION

This dehumidifier must be plugged into a grounded 115 VAC/60Hz outlet rated at least 15 amps.

Connect the unit to suitable mains supply. Ensure Remote Humidistat switch is set in the 'OFF' (O) position. Switch Power switch to the 'ON' (I) position. The fan will start and the Ammeter reading will rise. The ammeter indicates the current taken by the PTC heater bank.

● REMOTE OPERATION

For remote operation it is necessary to connect a switch or humidistat via the 'Remote Humidistat Connector' which can be accessed by removing the dust cap. A connection plug is available on request.

ATTENTION: The remote connector is mains voltage! The remote switch/humidistat should be connected between pins 1 and 3. The earth pin is connected to ground and can be used if required. The Remote Humidistat switch should be set to the 'ON' position. The unit will now operate according to the state of the remote switch.

REMARKS: The Remote Humidistat equipment is not included in the dehumidifier.

● AMMETER

Meter to display amps consumption during operation and to allow power consumption calculation

● Hour Meter

Indicates dehumidifier duration of operation

POSITIONING

The dehumidifier is designed only for indoor use however, it can be placed inside or outside the room to be dried.

● INTERNAL POSITIONING

When positioning the unit inside the room, place it centrally, ensuring inlet and outlet ducts are clear of obstruction. If required, ducts can be connected to the outlet and/or inlet to direct the drying to specific areas. The Wet-Air-Out MUST be ducted outside the room

● EXTERNAL POSITIONING

When positioning the unit outside the room, connect ducting to the outlet to direct the dry air stream into the room to be dried. The inlet is also suggested be ducted from the room to give a re-circulation effect. In this case however, because the unit uses a portion for the inlet air for regeneration, provision must be made in the inlet duct to also draw air from outside the room.

Note: As the Wet-Air-Out discharge is warm and very humid ensure it is directed where it will have no adverse effect on the immediate environment. All ducting lengths should be kept to a minimum -longer lengths will reduce performance. The Wet-Air-Out is warm and very humid, when a duct is attached, condensation may form on the inside of the duct. This duct should slope downwards away from the unit to prevent any condensation running back into the unit.

MAINTENANCE

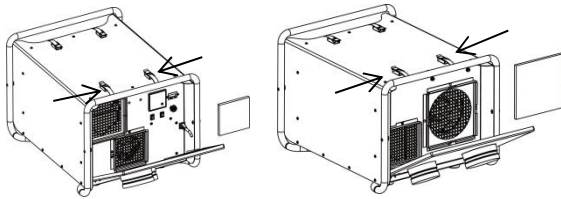
● ATTENTION

Maintenance should only be carried out by qualified personnel.
Unit should be disconnected from mains before removing covers.
If unit has just been running, heater bank may still be hot.

● CLEANING OR REPLACING FILTER

The unit has an inlet air filter, this should be checked periodically and if necessary cleaned. It can be cleaned with a vacuum cleaner or washed in mild detergent.

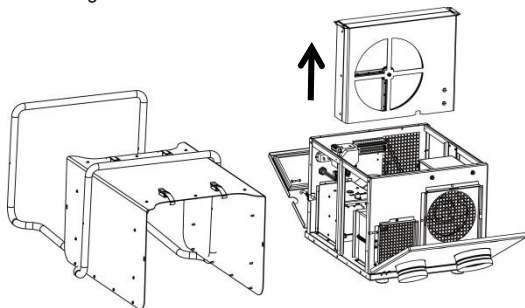
1. Unbuckle as shown
2. Remove the filter, Vacuum any debris from the filter. Using lukewarm water and a mild detergent wash the filter and allow it to dry.



● CLEANING DESICCANT ROTOR

The desiccant rotor is maintenance free, however, if it becomes blocked with dust (e.g. if it has been running without inlet air filter) it can be cleaned by vacuum cleaner or low pressure compressed air. (Do not wash)

1. Remove screws to take apart the pull rod and housing.
2. Remove screws to take apart the desiccant rotor.
3. Cleaning desiccant rotor.



TROUBLE SHOOTING

FAULT	SOLUTION
Unit does not operate	<ol style="list-style-type: none"> 1. Make sure the unit is plugged in. 2. Check the remote humidistat setting 3. Ensure the humidistat (if fitted) is turned on
Fan is not turning or low airflow	<ol style="list-style-type: none"> 1. Check inlet air filter 2. Check inlet/outlets not obstructed 3. Check ductwork (if fitted) is not obstructed 4. Check voltage level
Unit operating, but room not dry	<ol style="list-style-type: none"> 1. Check airflows 2. Check Amps reading 3. Check rotor is turning 4. Check PTC Over-Heat Protector
Rotor not turning	<ol style="list-style-type: none"> 1. Check belt tension 2. Check drive-motor operation 3. Check rotor alignment
<p>WARNING: DO NOT attempt to rectify issues with unqualified personnel. If the problem you are experiencing is not listed here, contact Global Industrial Customer Service.</p>	