

## **Owner's Manual**

### **DrizAir 1200EB Portable Dehumidifier**

F203-A UK

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**DrizAir<sup>®</sup> 1200EB dehumidifiers reduce humidity in enclosed structural environments by removing water vapor from the air. The 1200EB is engineered to be rugged, durable and highly portable, making them ideally suited for water damage restoration, structural drying, construction, and other applications requiring temporary, high-performance dehumidification.**

Patents: <http://www.LBpatents.com>

## **READ AND UNDERSTAND BEFORE OPERATING**

### **SAFETY INSTRUCTIONS**



#### **WARNING! Electric shock hazard, rotating fan hazard and hot surface hazards.**

- Inspect the power cord before use. If cord is damaged, do not use. Always grasp the plug (not the cord) to unplug.
- Must be earthed. Insert three-prong plug on power cord into a matching electrically earthed outlet. Do not use adapter. Never cut off third prong. Do not use an extension cord.
- The unit must be operated on a 110V/50 Hz circuit protected by a Residual Current Device (RCD) device.
- Keep motor and wiring dry.
- Always unplug unit before cleaning or servicing.
- Do not attempt to repair the unit. For service, contact your local distributor.

#### **FIRE HAZARD**

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

### **BEFORE YOU BEGIN**

#### **Warranty registration**

Warranty registration procedures vary by country/market. Contact your local distributor for assistance. Registration allows us to better assist you with using, maintaining or servicing your equipment and to contact you in case we have important safety information concerning your Dri-Eaz product. If you determine service is required, have your equipment model, serial number and original proof of purchase available and ask for assistance with obtaining a return material authorization (RMA).

#### **GROUNDING INSTRUCTIONS**

This unit's plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**WARNING! Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlets are properly grounded. Do not modify the plugs provided with the appliance – if the plugs do not fit the outlets, have proper outlets installed by a qualified electrician.**

This equipment is for use on circuits with a nominal rating of no more than 110V.

#### **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.

This unit intended for household and commercial use.

#### **INTRODUCTION**

Dehumidifiers reduce humidity in enclosed structural environments by removing water vapor from the air. With proper use, the 1200EB can help dry carpet, carpet pad,

floors, walls, building contents and more. Using dehumidifiers can also help prevent secondary damage caused by high humidity. For best results, use the 1200EB with Dri-Eaz airmovers placed around the perimeter of the room to distribute heat energy and release moisture from wet surfaces into the air.

## How the 1200EB dehumidifier works

Dri-Eaz refrigerant dehumidifiers operate by pulling moist air in across a very cold evaporator coil. The moisture in the air condenses on the coil. In certain conditions, the machine operates in defrost mode, warming any frost accumulated on the evaporator coil back into water. The water collects in a tray and is pumped out through a hose.

**IMPORTANT:** Before moving the unit, make sure there's no water in the pump. See how to use the PURGE function under "How to use the control panel" on page 2.

## POSITIONING A DEHUMIDIFIER

For best results, operate your dehumidifiers in an enclosed area, as this creates a drying chamber. Close all doors and windows that open to the outside to maximize the unit's water removal efficiency. Also, keep traffic through the drying chamber to a minimum. Place your 1200EB dehumidifier against a wall, away from obstructions, and keep it away from anything that could block airflow into and out of the unit.

## Managing temperature rise

DrizAir dehumidifiers warm the air as they remove moisture. Optimal drying temperatures range from 20°C–29°C (68°F–85°F).

The most accurate way to monitor temperature is with a thermo-hygrometer; however, you can use an indoor/outdoor thermometer to gauge temperature. Just make sure it is located in the center of the room away from the airflow of the dehumidifier.

If the temperature rises to unsafe levels (over 32°C/90°F) you can use the structure's HVAC (heating and air conditioning) system to bring the temperature down. Set the HVAC to maintain a temperature of 27°C (80°F) and continue to operate the dehumidifier. If there is no HVAC system, contact Legend Brands Europe for assistance.

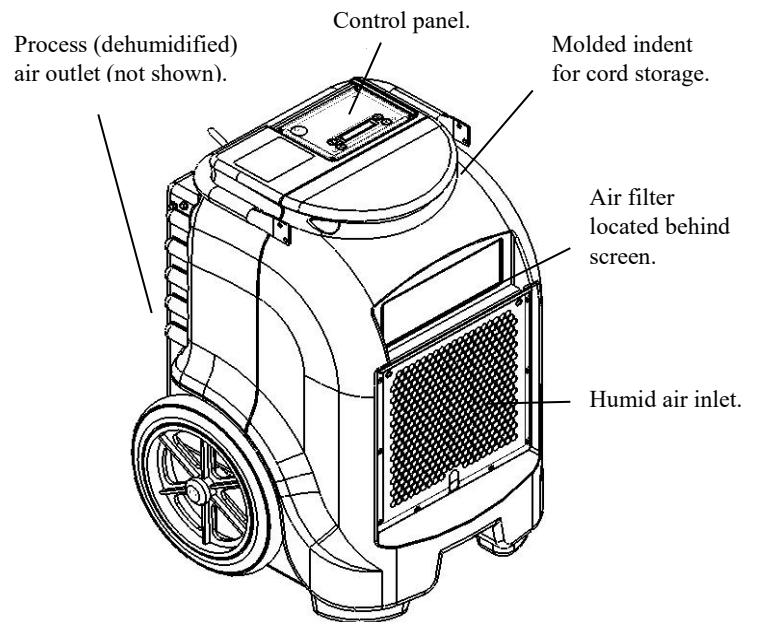
For more information about creating an optimum drying environment, contact Legend Brands Europe.

## OPERATING YOUR DEHUMIDIFIER

### Set unit upright

Always operate the dehumidifier in an upright position. If the unit has been stored or transported in a horizontal position, set it upright (vertical) for at least 30 minutes before operating it. When the unit is placed in a horizontal position, oil from the compressor flows into the

FIG. A: FRONT



refrigerant coils reducing the ability of the dehumidifier to function.

### Set up drain hose

The 1200EB condensate pump connects to a plastic drainage hose that is wrapped around the air outlet located at the back of the unit. This hose is equipped with a quick-connect fitting for quick attachment to the provided drain hose. Unwrap the entire hose and place the unattached end in a sink, drain, bucket or outside – anywhere that water can drain out safely. If you use a bucket or other receptacle for water collection, check it regularly to prevent spills.

**NOTE:** Uncoil and straighten the entire drain hose. Do not leave any of part of the hose coiled on the unit and do not place the end of the hose higher than 6 m (20 ft.) above the top of the unit. Also check for kinks, or obstructions that would restrict the flow of water. Failure to do so may cause a water backup in the pump resulting in leakage.

### Plug in electrical cord

Locate the electrical cord either on the top or back of the unit. The 1200EB dehumidifier may be plugged in to a 110V grounded outlet.

If the unit experiences a loss of power, either from a power interruption or from thermal overload protection, let the unit rest for five minutes before restarting. Otherwise it might shut off again.

## Turn the unit on


Press the "on" button on the control panel.


## How to use the control panel


The display panel uses an LCD liquid crystal display featuring a blue backlight. The display provides a variety of information about the unit and the operating environment, including dehumidification mode, defrost cycle, water full indicator, fan operation indicator, relative humidity, total run time, and error codes.


### 1. Control Panel Buttons

When any button is pressed, the backlight turns on. The backlight goes off after 30 seconds.

**1.1 ON/OFF  key:** Each time the ON/OFF key is pressed, the controller will cycle "on-off-on". When the unit is first plugged in, the unit will complete an automatic self-test before the ON/OFF are available for use.



**1.2 Up  key:** Increase humidistat setting. Each press increases the setting in 1% RH increments to a maximum of 90% RH. Holding the key will increase the setting in 5% RH increments each second. Release the key to accept the desired RH setting.



**1.3 Down  key:** Decrease humidistat setting. Each press decreases the setting in 1% RH increments to a minimum of 30% RH. Holding the key will decrease the setting in 5% RH increments each second. Release the key to accept the desired RH setting.

**1.4 Purge  key:** Use this button to pump out the condensate tank. The pump operates for approximately 30 seconds.

### 2. Functional mode description

#### 2.1. Humidistat operation

1) Press  and  to adjust the dehumidification level. The available range is 30%–90% RH. The default humidity setting is 60% RH.

**NOTE: To operate the unit in continuous dehumidification mode,** press the  key until the 30% RH setting is displayed, and then press the  key again. The panel will display "CO" indicating the unit has entered continuous dehumidification mode. When setting the humidity, the set humidity display flashes. If no keys are pressed for 5 seconds, the the screen will show ambient humidity.

2) T Environment humidity -T set humidity  $\geq 3$ , the compressor and fan on.

3) T Environment humidity-T set humidity  $\leq -3$ , the compressor stops and the fan runs. The compressor restart needs to meet: T Environment humidity-T set humidity  $\geq 3$  and 3 minutes delay

### 3. Operation control description

Any time the unit is turned off or power is interrupted, the system initiates a 3-minute delay before the unit can be turned on again.

#### 3.1 Defrost Function

If the system detects the build-up of ice on the coil, the unit will go into defrost mode and the defrost icon will display. When the defrost cycle is complete, the defrost icon will turn off and the unit will automatically resume normal operation.

#### 3.2 Condensate Tank Full

When the condensate tank is, the pumpout icon on the panel will display and the pump will operate for approximately 20 seconds until it detects no more water in the tank. If the system continues to detect water after 40 seconds, the pump will stop and the system will display the error code E4 and beep twice every 5 minutes. Check the drain hose for kinks and clogs.

#### 3.3 Memory function:

When shut off normally, the unit will retain humidistat values set by the user. If power is interrupted, the unit will default to 60% RH.

### 4. Sensor Errors

If the humidity sensor fails, the humidity cannot be set, it automatically switches to continuous dehumidification. The display shows the humidity sensor fault with code E3. If the coil probe fails, the unit will not operate, and the display will show E5. See "Error Codes" table below.

### 5. Accumulated working time

When the power button is on, the timer starts to count by minute. After powering off and restarting, the timer count resumes. The memory of accumulated time is permanent and cannot be reset. Time data is written into the memory every 10 minutes, and the accumulated maximum time is 99999 hours and 59 minutes.

### 6. Dehumidification icon

In the dehumidification mode, the dehumidification icon displays while the compressor is operating. The dehumidification icon flashes when the compressor is not working, such as during defrost mode.



The correct humidity value is displayed in the humidity display area. If a fault is detected, an error code will display in this area.

### 7. Error codes

The table below shows error message that the system may detect. If the display shows an “ER” message, first unplug the unit and then plug it back in. This may re-set the electronics, and if so, no further action is required. If the error message reappears, try the solution shown under “Explanation.” If this still does not fix the problem, contact your local Dri-Eaz distributor for further assistance.

ERROR CODE	EXPLANATION
ER 3	Humidity sensor failure. Contact Dri-Eaz.
ER 4 + beep	Condensate tank full or sensor failure. Unit stops and the beeper sounds twice every 5 minutes. Check drain hose for clogs and kinks. If problem persists, contact Dri-Eaz.
ER 5	Coil sensor out of temperature range or failure. Turn unit off and allow unit to return to room temperature. Turn unit on. If ER 5 displays again, sensor has likely failed. Contact Dri-Eaz.

### At the end of the job

As with all dehumidifiers, once the drying job is completed, it is important to make sure the unit is completely purged of water before moving it. **To ensure that all water has drained into the pump basin, turn the unit off, wait for 10 minutes, then press the PURGE button.** (The unit must be plugged in for the purge to operate.) Once the purge cycle is complete, unplug the unit and remove it promptly from the job.

Before transporting, be sure to remove the external drain hose and drain it carefully.

## MAINTENANCE

**WARNING! ELECTRIC SHOCK HAZARD.** Unplug the 1200EB before performing any maintenance.

### Before each use

**Inspect the electrical cord for damage.** Look for fraying, cuts, etc. Do not use the unit if you find any damage. Contact your local Dri-Eaz distributor for assistance.

**Inspect and replace filter as needed.** The 1200EB is equipped with a disposable 4-PRO filter. Keep a clean filter in the unit at all times to protect internal components from dust and other particulate build-up.

Replace filter only with a 4-PRO Filter #100250 (F581). For parts and service call your local distributor or contact your local Dri-Eaz distributor.

**CAUTION:** Dust can cause the unit to overheat and shut down. Do not operate when excessive dust or airborne particles are present, such as during sanding or spray-painting. Inspect and clean air filter elements and coils frequently.

**IMPORTANT:** Replace the 4-PRO filter whenever it has been used on a mold remediation job or otherwise exposed to potentially dangerous contaminants.

### Monthly

**Check coils.** Dirty coils can cause the unit to overheat. Clean when visibly dirty. See Fig. B.

1. Unplug unit.
2. Remove housing, locate coils and allow coils to dry if wet.
3. Vacuum both sides of the coils until clean, being careful not to let the nozzle touch the fins; as damage may result.

**Check catch basin tray.** Clean when dirt and debris are present. Wipe clean with a rag.

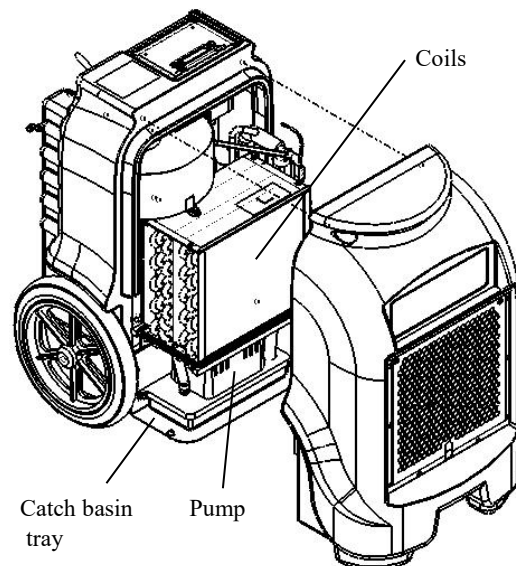
**Check drain hose.**

1. Look for obstructions. Disconnect and clear any debris present.
2. Reattach gravity drain hose.

### Annually

Have the pump system inspected by a qualified service center.

**FIG. B: CLEANING**



## TRANSPORT AND STORAGE

**NOTICE:** Handle the unit carefully. Do not drop, throw, or place the unit where it could fall. Rough treatment can damage this equipment and may create a hazardous condition or void warranty.

**IMPORTANT:** Be sure to purge the water from the pump reservoir before moving the unit. See the PURGE

function under "How to use the control panel" on page 3. Note that the unit must be plugged in for the Purge function to operate.

1. Do not expose the control panel to moisture, snow or rain when transporting in uncovered vehicles.
2. Store and transport securely to avoid any damaging impact to internal parts.

## TROUBLESHOOTING

FAULT	CAUSE	SOLUTION
Unit does not operate	No power to machine. Unit not switched on.	Plug in unit; check power at outlet. Switch unit on.
Unit operating, but room not drying	Not enough time to dry. Poor air movement in room. Excessive moist air infiltration.	Allow more time for drying. Increase air movement with air movers. Reduce infiltration.
Unit continuously in defrost mode	Room temperature too low	Increase room temperature.
Unit collects too little water	Room air is dry. Room temperature is too low.	Check humidity with hygrometer. Increase room temperature. Check filter and coils; replace filter and clean coils as necessary.

*If the problem you are experiencing is not listed here, call your local distributor or contact your local Dri-Eaz Distributor.*

## SPECIFICATIONS

Model	1200EB F203A-110V-110V
Water removal AHAM (80°F/60% RH)	25.6 L   54 pts. / day
Max process air	343 CMH   202 CFM
Dimensions (H × D × W)	81 × 50 × 51 cm 32 × 19.5 × 20 in.
Use weight	36 kg   80 lbs.
Power	0.7 kW
Amps (80°F/60% RH)	6.8A amps
Voltage	110V/110V
Frequency	50 Hz
Operating range	5°C–32°C   41°F–90°F
Sound level	51 dB
Air filter	4-PRO filter #100250 (F581) 24 pk)
Power cord	7.6 m   25 ft.
Construction	Rotomolded polyethylene housing
Safety	CE
Specifications are subject to change without notice. Some values may be approximate.	