

DRI-EAZ

Owner's Manual

TD3000 Desiccant Dehumidifier

Model F525-230V

DRI-EAZ PRODUCTS, LTD.

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The Dri-Eaz® TD3000 Desiccant Dehumidifier reduces humidity in enclosed environments by removing water vapour from the air. The TD3000 is ideal for water damage restoration, structural drying, construction, and many other applications requiring ultra low humidity or when working in cold conditions.

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

ORIGINAL INSTRUCTIONS



WARNING

Read and understand manual before operating.



WARNING! Do not alter or modify your TD3000 in any way. Use only replacement parts authorised by Dri-Eaz Products Ltd. Modifications or use of unapproved parts could create a hazard and will void your warranty. Contact Dri-Eaz Products Ltd for assistance.

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

WARNING! Unit must be grounded.

- 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.
- The unit must be operated on a 230V/50 Hz circuit protected by a Residual Current Device (RCD)

INTRODUCTION

The TD3000 Dehumidifier reduces humidity in enclosed structural environments by removing water vapour from the air. With proper use, the TD3000 can help to dry out

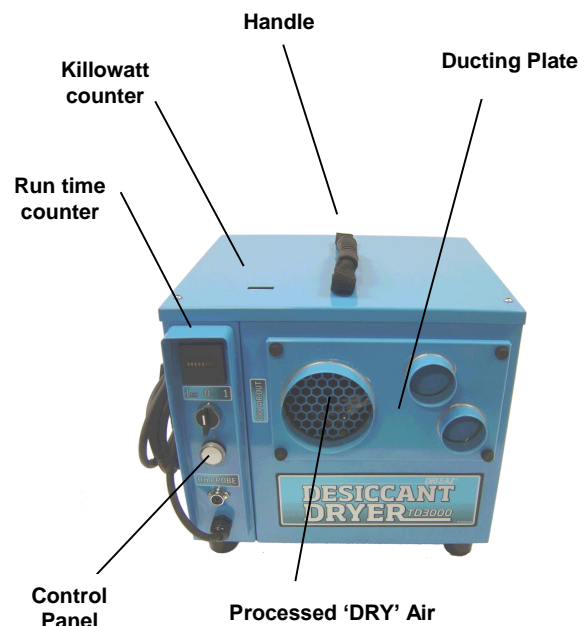
damp structural materials, insulation, and contents, and maintain a healthy level of humidity. Using the TD3000 may also prevent secondary damage caused by high humidity.

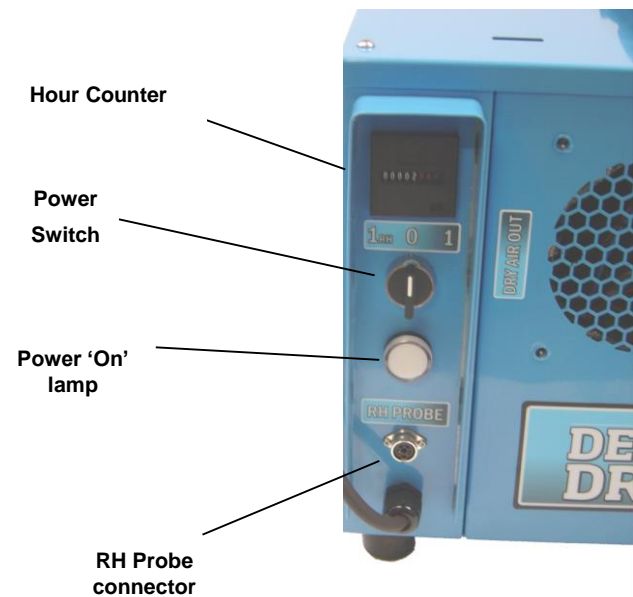
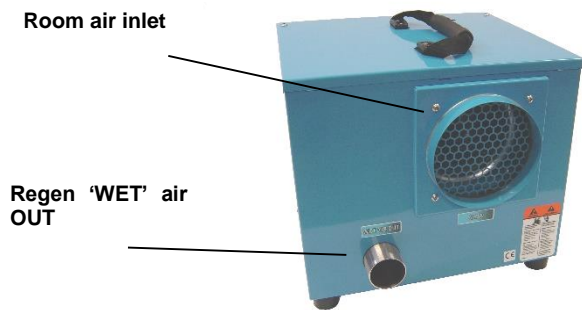
How the TD3000 works

The TD3000 desiccant dehumidifier uses a fan to draw moist air in and through a desiccant wheel where water is held through chemical attraction (Sorption). The dryer 'processed' air is then pushed into the drying environment. During operation the desiccant wheel rotates past a heated, 'regeneration' air path, which drives the excess moist out of the desiccant wheel. The wet 'regeneration' air is then either ducted outside or into a refrigerant dehumidifier, or similar, to allow the moist air to be condensed. The TD3000 can be set to operate continuously or the user may select 'RH Mode' and connect the remote Humididtat controller where the Revolution will turn on and off automatically to maintain the inlet humidity level the user has selected.

Features:

- Industrial-quality dehumidifier removes up to 22 litres of water per day (20°C / 60% RH).
- Manual mode or Automatic humidistat mode to set and maintain desired humidity level.
- Option for 1 x 100mm or 2 x 50mm outlets.
- Incorporates KWh and hour counter.
- Stackable for storage and transport.
- Robust stainless steel construction.
- Comfortable handle for easy transportation.
- Quiet operation and low power consumption.





CONTROLS AND OPERATING INSTRUCTIONS

Set unit upright

NOTICE: Always store, transport, and use the unit in a horizontal position.

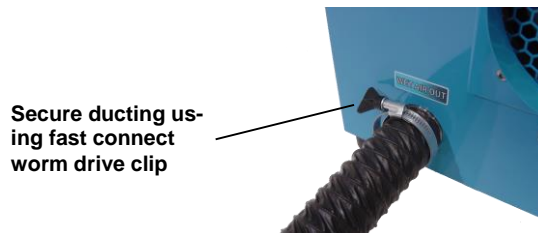
Positioning a Dehumidifier

For best results, operate your dehumidifiers in an enclosed area. Close all doors and windows that open to the outside to maximize water removal efficiency. Place your dehumidifier away from obstructions, and keep it away from anything that could block airflow into and out of the unit. For more information about creating an optimum drying environment, contact Dri-Eaz Ltd on 01908 611211.

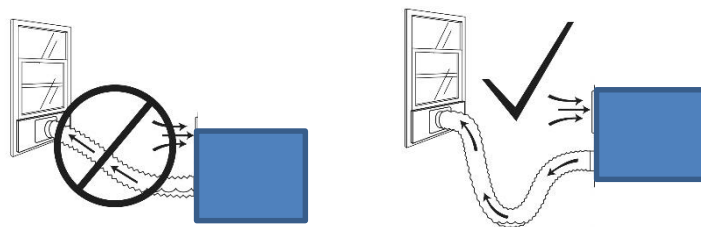
Set up exhaust hose

The TD3000 exhaust hose connection is mounted on the rear of the product and labelled 'Wet Air Out'. Connect

the TD3000 exhaust hose using the worm clip provided. Uncoil the 3 mtr exhaust hose to prevent kinks and either route the hose outside of the property or into the inlet of a refrigerant dehumidifier.



IMPORTANT - position TD3000 so that exhaust hose loops lower than the outlet height to prevent possible condensation from the reactivation air from running back into the unit.



Plug in electrical cord

The TD3000 should be plugged into a 230V/50Hz outlet.

Startup

When unit is first plugged in to AC power, the 'On' light mounted on the front panel will illuminate.

Turn the unit on

TD3000 incorporates two operating modes, 'automatic' and 'RH probe'.

Automatic running – turn on/off switch to **1**, the TD3000 will now run continuously.



RH control – fit the RH sensor into connector located on the front panel and turn on/off switch to **1RH**, the TD3000 will now be controlled by the remote RH sensor to prevent possible over drying.

Ducting Outlet Options

The TD3000 is able to provide either 1 x 100mm outlet or 2 x 50mm.

To swap outlets, undo 4 x finger screws and rotate duct plate accordingly.



Loosen 4 off screws

Rotate duct plate



Retighten 4 off screws

TRANSPORTATION 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. Protect from freezing and store and transport securely to avoid any damaging impact to internal parts.

MAINTENANCE SCHEDULE

WARNING! ELECTRIC SHOCK HAZARD. Unplug unit before cleaning or servicing.

WARNING: Risk of dust and contaminants exposure. Use of respirator mask and gloves is recommended. If unit has been exposed to potentially dangerous contaminants, clean thoroughly and sanitize before reuse.

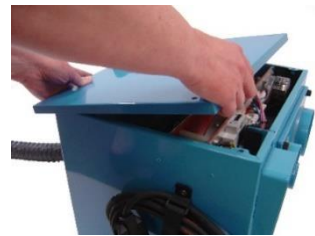
Before each use

Inspect the electrical cord for damage. Look for fraying, cuts, etc. Replace the cord if you find any damage.

Inspect, rotate or replace filter. The TD3000 is provided with a filter (part no. **DF0007**). The TD3000 incorporates a metal filter holder allowing the filter to be rotated to maximise filter use.



Unscrew 2 x M4 allen screws



Slide lid back



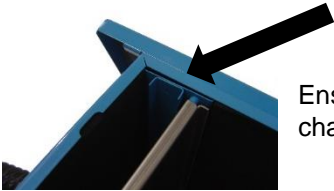
Remove filter holder



Replace filter



OR rotate filter if applicable



Ensure filter holder is located in channels



Slide lid forward to engage lugs into slots on rear panel



Tighten 2 x screws

As Needed

Clean when dust accumulation is visible. In normal use, dust can accumulate and can restrict airflow, reducing performance and causing the unit to overheat. Use a vacuum cleaner with a brush tool and a soft cloth to remove any debris.

DO NOT PRESSURE WASH THE TD3000
DOING SO WILL INVALIDATE WARRANTY

For further information on maintenance please refer to the TD3000 maintenance manual available from Dri-Eaz.

TROUBLESHOOTING

FAULT	CAUSE	SOLUTION
Front light not on	No power to unit	Check that unit is plugged in and socket switched on
Unit on but not drying / heat	Switch positioned on 1RH but no RH controller fitted	Switch to 1
Unit operating, but room not dry	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. Seal off area to reduce infiltration.
<p><i>If the problem you are experiencing is not listed here, call +44 (0)1908-611-211 for further assistance.</i></p>		

SPECIFICATIONS

Name	TD3000 Desiccant Dehumidifier Model F525-230V
Dimensions (W x H x D)	34 x 39 x 42 cm
Weight (w/ cord & hose)	20 kg
Amps	4.5 amps at 20°C/60% RH
Power	1.035 kW / 230V / 50Hz
Air movement	300 CMH
Water removal	22 L/day 20°C/60% RH
Operating temperature range	-10 – 35°C
Safety	CE
<p><i>Specifications are subject to change without notice. Some values may be approximate.</i></p>	

PARTS INCLUDED

3m high temperature hose
TD3000 desiccant

ADDITIONAL PRODUCT INFORMATION and current documentation is available at www.dri-eaz.co.uk

FOR PARTS AND SERVICE Dri-Eaz at +44 (0)1908-611-211.

WARRANTY

2 year parts and labour. Free transport / collection with 90 days.