

EPD50 MAX - manual

- DryFan Desiccant Dehumidifier.

A unique product and a revolution to the way we keep living spaces, lofts, basements, boats, holiday homes, garages and storage areas dry all day and every day.



DRYFAN® TECHNOLOGY



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INTRODUCTION

UK

● EPD50 MAX DryFan Desiccant Dehumidifier

Well-suited for applications where excess moisture needs to be removed from the air without producing condensate water. The use of desiccant technology allows for effective moisture removal even in low-temperature environments, which is a notable advantage.

FR

● EPD50 MAX Déshumidificateur à adsorption DryFan.

Convient aux applications où l'excès d'humidité doit être éliminé de l'air sans produire de condensation. L'utilisation de la technologie d'adsorption permet d'éliminer efficacement l'humidité même dans les environnements à basse température, ce qui constitue l'un de ses principaux avantages.

DE

● EPD50 MAX Adsorptionsluftentfeuchter

Geeignet für Anwendungen, bei denen überschüssige Feuchtigkeit aus der Luft entfernt werden muss, ohne dass Kondensation entsteht. Der Einsatz der Adsorptionstechnologie ermöglicht eine effektive Feuchtigkeitsentfernung auch in Umgebungen mit niedrigen Temperaturen, einer seiner Hauptvorteile.

NL

● EPD50 MAX DryFan adsorptie-ontvochtiger.

Geschikt voor toepassingen waar overtollig vocht uit de lucht moet worden verwijderd zonder condenswater te produceren. Het gebruik van adsorptietechnologie maakt effectieve vochtverwijdering mogelijk, zelfs in omgevingen met lage temperaturen, een van de grote voordelen. duurzaamheid.

OUT THE BOX



- **EPD50 MAX with standard filter holder**
 - 2 m wire / Euro type F plug
 - 2 m wire / UK D-plug
 - 125 mm front flange (white)
 - 125 mm back flange (white)
 - 1 m flex duct 40 mm to fit
 - Tie-wrap
- **EPHUM-I-DRY humidistat**
 - 2 m white of controller cord / RJ11 connectors
 - QR Code for full user manual

- **EPHUM-I-DRY humidistat for for humidity control (%R.H.)**



- 2 m of controller cord, RJ11 connectors

- Connect the controller cord in the device and in the hygrosat. Turn on the top switch (white dot down) Set the desired humidity (%R.H.)

- 125 mm front & back flanges (white)



- 2 m wire EU plus UK plug



- Loosen middle screw to fit the correct plug. Screw must be re-fasten securely.

UK

EPD50 MAX, strong white epoxy finish.
Comes with 125 mm flanges for front and rear.



EPD50 MAX
Information and Manual



EPHUM-I-DRY
Humidity Controller

- 1 meter flex duct dia. 40 mm to fit



- Tie-wrap





For industrial processes and flood recovery, also to prevent rust, wood rot, bacteria and fungi.
For applications where excess moisture needs to be removed from the air.

SAFETY (1)

- For safety reasons, read this information carefully before operating. Persons who are not familiar with this type of product must not use it. **Keep the manual in a safe place for future reference.**



This appliance must be earthed and should only be connected to an earthed 230V – 50 Hz mains supply.



The installation must be in accordance with the regulations of the country where the unit is used.



The unit is designated for indoor operation.

The dehumidifier is safe, however, as with other electrical appliance, use it with care.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

SAFETY (2)

- Do not clean the dehumidifier by spraying it or immersing it in water.
- Do not insert any object into the opening of the dehumidifier.
- Disconnect from the mains before cleaning the unit or any of its components.
- Never connect to an electrical outlet using an extension cord. If an outlet is not available, one should be installed by a licensed electrician.
- Place the dehumidifier in location appropriate to the appliance IP-rating (see technical data).
- Any service other than regular cleaning, setting fan mode or filter replacement should be performed by an authorised service representative. Failure to do so could result in a loss of warranty. Your dehumidifier is supplied with an electrical cable (15 ft) and an earthed plug. Should it be necessary to replace this plug at any time, you must use an earthed electrical plug.



Warning! Never operate this appliance if it has a damaged cord or plug.

If the supply cord is damaged an approved service representative or a similar qualified person must replace it in order to avoid any hazards.

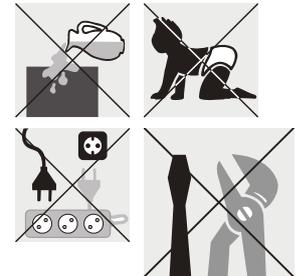
There should be direct access to the electrical plug after connecting the power!



Do not use your dehumidifier under the following conditions:

- If the power cable is damaged
- Where the power cable may be easily damaged
- Close to heat source
- Where small children may be left unattended
- Where there is a risk of liquids falling on the unit
- Where it may be damaged by chemicals

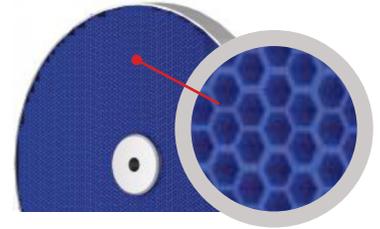
This product is not made for DIY repair.



HOW OUR UNIQUE TECHNOLOGY WORKS

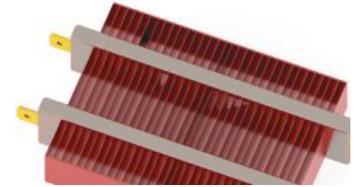
- **PATENTED DESICCANT ROTOR**

The Desiccant Rotor is the heart of the DryFan® system. It is an array of especially absorbent membranes – patent protected – arranged as a series of corrugations (as shown in the cut-away image) to give a vast surface area that was developed over many years, making it an extremely efficient moisture collector.



- **PATENTED REGEN HEATER**

A patented ceramic PTC Regen Heater. (PTC Positive Temperature Coefficient) is self regulating so never to overheat. However, as triple safety we include a separate overheat smart sensor in the dehumidifier. The patented technology is both safe and energy efficient and can never overheat to hazardous temperatures, even if vents become accidentally blocked.



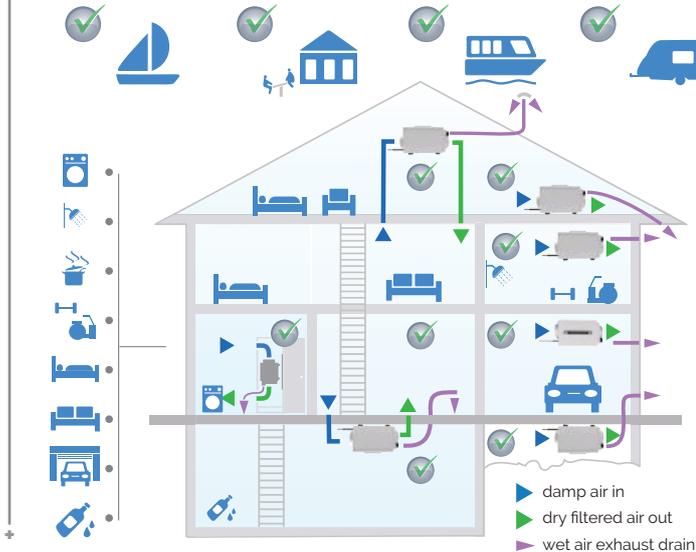
POSITIONING (1)

● POSITIONING

The models have been designed for indoor use however, they 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 (where fitted) to direct the drying to specific areas. The 'Wet Air Out' MUST be ducted outside the room.

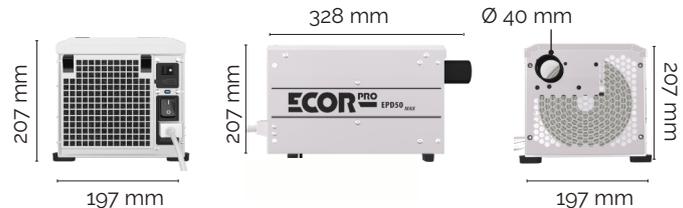
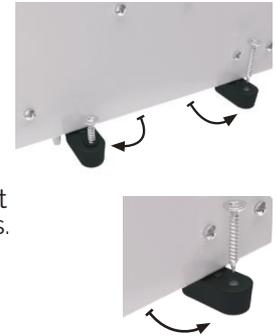


External Positioning (Outlet Duct Fitted Only):

When positioning the unit outside the room, connect ducting to the outlet to direct the dry air-stream into the room to be dried. Optionally, the inlet may also be ducted to 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 draw air also from outside the room.

FIXING

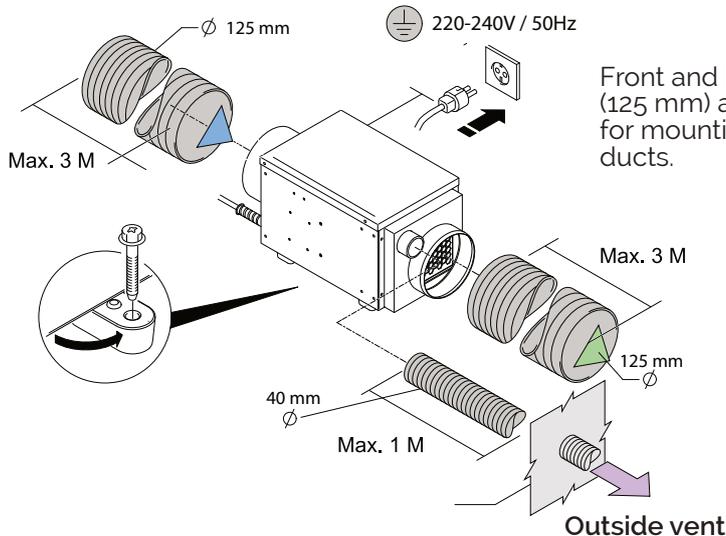
The dehumidifier can be mounted in any position, even upside down. Skewed, tilted or upside down. No spirit level is needed (therefore ideal for use in ships and boats). Turn out the feet at the bottom of the unit and you will see the fixing points. Secure all 4 feet with screws or bolts (not supplied) to the floor, wall or ceiling.



POSITIONING (2)

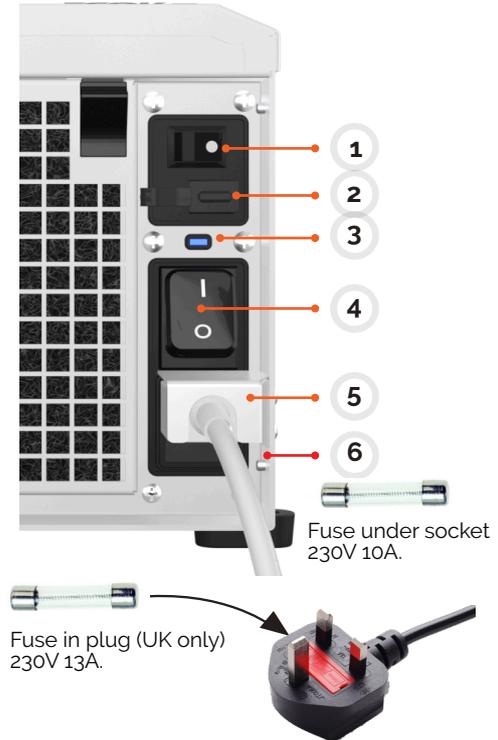
- Note:** External ductwork will reduce restrict airflow and therefore the amount of water the dehumidifiers will extract. To maximize airflow and water extraction always keep any ducting to minimum. Maximum lengths in meters of any ducts are outlined in the table.

Maximum damp air in duct length (m)	Maximum dry filtered air out duct length (m)	Maximum wet air out duct length (m)
3.0	3.0	1.0
together with a maximum length of 3 m		



OPERATION (1)

- All controls are located at the front of the unit, next to the air intake.
 1. Continuous Fan; "white spot pressed" is on.
 2. Dust cover with an RJ11 connector behind it for the remote control
 3. LED light. Led lights up showing status
 4. On of switch of the unit. "I" is on, "O" is off.
 5. Socket for 230V. Protective cap also prevents the cord from slipping loose.
 6. Holder for fuse 230V - 10 A
- **OPERATION**
Check the rating plate. Connect the unit to the correct mains voltage and lines. Place the "wet out duct" outside the room/area to be dried. Turn the unit on ("I").
- **STAND ALONE**
Turn off the remote control switch. Press the black area of the switch. The unit will now operate continuously 24/7 without a remote control maximum dehumidification.
- **REMOTE OPERATION WITH HUMIDISTAT (EPHUM-I-DRY)**
For remote operation it is necessary to connect the humidistat controller (provided) via the cord and RJ11 connectors (plug on the humidistat and into "2" on the unit). The dehumidifier will now be controlled by the remote humidistat that is using low power and only 12V. Download the manual via the QR code (page 3). The lower the number, the dryer the room.
- **NOTE:** A low setting of say 10% means the room is regulated to a very dry level while a setting of say 90% the room will be maintained at a relatively humid level. The right level for the room may vary with weather, temperature and occupation conditions over time.



OPERATION (2)

CLEANING

Disconnect from the mains before cleaning or servicing the unit or any of its components. Wipe regularly clean with a moist cloth (a soft, damp cloth) and a mild household detergent. Never use chemicals, petrol, aggressive detergents or other cleansing solutions.

AIR FILTER

The dehumidifier has an inlet air filter. This should be checked periodically and if necessary cleaned. It can be cleaned with a vacuum cleaner or hand washed in mild detergent only. Replacement filters are available from your supplier. **ATTENTION: Do not run the unit without a filter fitted as dust will impair the performance of the Rotor.**

Remove the plug from the socket before checking fuses. If the appliance does not work, check the appliance fuse 230V-10A and/or the plug fuse (UK only) 230V-13A.

Attention!

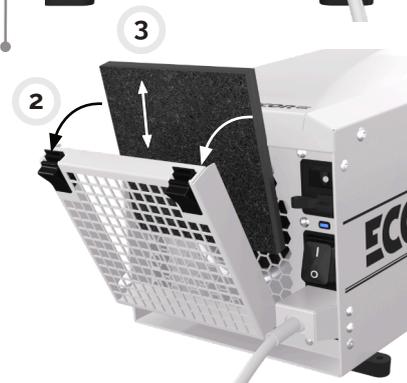
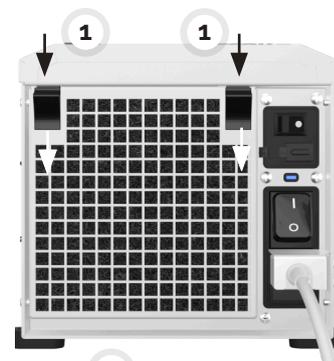
As an added safety feature, if this dehumidifier overheats internally, the internal safety fuse will stop the unit from working. To reset this fuse, unplug the dehumidifier from the power source and then plug it in again. **Check filters are clean and ducting allows adequate air flow to operate.**

Attention!

The unit will run 5 minutes after turned off for internal cooling!

Changing Air Filter

- 1) Slide down both black lips at the same time.
- 2) Fold the filter housing forward.
- 3) Take out the filter and exchange it for a clean filter and close the filter housing again.



TECHNICAL DATA

EPD50 MAX	
Extraction @ 35°C / 90% RH	13 litres/day
Typical extraction @ 27°C / 60% RH	11 litres/day
Air Flow (Process Air in)	210 m ³ /hr
Air Flow (Exhaust Air Out)	35 m ³ /hr
Air Flow (Fresh Dry Air Out)	180 m ³ /hr
Mains (Single Phase)	230 V/50 Hz
Current @ 27°C / 60% RH	2.4 A
Power @ 27°C / 60% RH	0.55 kW
Temperature Range	-20 °C - +40 °C
Dimensions LxDxH	328 x 197 x 207 mm
Net Weight	6.1 kg
Noise Level	52 dB

REV1 Subject to Change.

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OPTIONAL PARTS

- Replacement Filter pack of three
- Humidistat Controller (WiFi) with 1 m "Curley" of controller cord / RJ11 connectors

PART NUMBER:
- EPFILPACK FOUR
- EPHUM-I-MAX



- Humidistat Controller (WiFi) EPHIM-I-MAX
- 1 meter "Curley" of controller cord, RJ11 connectors



End of the period of use

Waste electrical equipment must not be disposed of in normal household waste. Take this product to your local recycling centre for proper disposal.

Ende der Nutzungsdauer

Elektroaltgeräte dürfen nicht im normalen Hausmüll entsorgt. Hausmüll entsorgt werden. Bringen Sie dieses Produkt zur ordnungsgemäßen Entsorgung zu Ihrem örtlichen Recycling-Center.

Fin de la période d'utilisation

Les déchets d'équipements électriques ne doivent pas être jetés avec les déchets dans les ordures ménagères. Remettez ce produit à votre centre de recyclage local pour qu'il soit éliminé de manière appropriée.

Einde van de gebruiksperiode

Afgedankte elektrische apparatuur mag niet bij het normale huishoudelijk afval. Breng dit product naar uw plaatselijke recyclingcentrum voor correcte verwijdering.



ECOR^{PRO}

- **Subject to modifications.**
The manufacturer / supplier is not liable for damages and consequences of incorrect connections.

Änderungen vorbehalten.

Der Hersteller / Lieferant haftet nicht für Schäden und ihre Folgen bei nicht korrekten Anschlüssen.

Sous réserve de modifications.

Le fabricant / fournisseur rejette toute responsabilité pour tout dommage ou toute conséquence de branchements incorrects.

Wijzigingen voorbehouden.

De fabrikant / leverancier is niet aansprakelijk voor schade en gevolgen van onjuiste aansluitingen.

