



Meaco 25L Ultra Low Energy Dehumidifier Instruction Manual



Meaco 25L Ultra Low Energy Dehumidifier

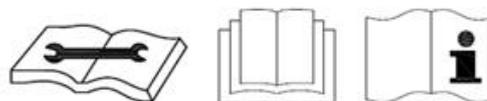
Please read this instruction manual before using the dehumidifier and keep safe for future reference.

Thank you for choosing Meaco, we really appreciate it.

SAFTEY INFORMATION

This dehumidifier must not be used in rooms under the following conditions:

- *Potentially explosive atmosphere*
- *Aggressive atmospheres*
- *Featuring a high concentration of solvents*
- *An extremely high ratio of dust*



Keep Children Away: Do not allow children to play with or around this unit, which could result in injury. Be sure the unit is inaccessible to children when not attended. This appliance is not intended for use by person (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliances by a person responsible for their safety.

Keep Unit Grounded: Always operate the unit with a grounding plug and a grounded electrical outlet. A grounding plug is an essential safety feature that helps reduce the risk of shock or fire.

Protect Power Cord from Damage: Never operate a unit with a damaged power cord, as this may lead to electrical or fire hazards. If the power supply cord is damaged, it must be replaced by a cord of the same type and amperage rating.

Extension Cords: Extension cords must be grounded and able to deliver the appropriate voltages to the unit.

Handle with Care: Do not drop, throw or crash the dehumidifier. Rough treatment can damage the components or wiring and create a hazardous condition.

Run on Stable Surface: Always operate the unit on a stable, level surface, for example the floor or a strong counter, so that the dehumidifier cannot fall and cause injury.

Keep Out of Water: Never operate the unit in pooled or standing water, as this may create a risk of injury from electrical shock. Do not store or operate outdoors. If electrical wiring or components become wet, thoroughly dry them before using the unit. If in doubt do not use the dehumidifier and consult a qualified electrician or a Meaco approved engineer.

Do Not Let Water Drip onto the Dehumidifier: Dry your bathroom by placing the dehumidifier outside of the room with the bathroom door open. Do not use your dehumidifier inside the bathroom.

Keep Air Intakes Clear: Do not clog or block the air intakes by placing the dehumidifier too close to curtains, walls or anything that will restrict the air inlet. This may cause the unit to overheat and result in a fire or electrical hazard.

Keep the Filter Clean: There is a filter on the air inlet to stop dust from getting inside the dehumidifier. If you allow the dust and dirt to build up on the filter, pressure on the fan motor will be increased and you will reduce the amount of water extracted from the air. Not cleaning the filter reduces the lifespan of the dehumidifier, increases energy consumption and decreases water extraction. Please examine and clean the filter every two weeks minimum.

Keep Electrical Components Dry: Never allow water inside the dehumidifier's electrical components. If these areas become wet for any reason, thoroughly dry them before using the dehumidifier. If in doubt, do not use the dehumidifier and consult a qualified electrician or a Meaco approved engineer.

The operator must make the operating instruction available for the user and make sure that the user does understand the manual.



The Meaco 25L Ultra Low Energy Dehumidifier uses the new R290 refrigerant gas to comply with European Environmental Directives. R290 is kinder to the environment and is part of attempts to reduce global warming as it has a low greenhouse effect (GWP).

When using the Meaco 25L Ultra Low Energy Dehumidifier you must take into account the following:

- This dehumidifier uses about 90 grams of R290 refrigerant which is flammable, therefore it is part of a sealed system and must only be serviced by a trained Meaco engineer.
- Do not use or store this dehumidifier in a room smaller than 4m² to prevent a fire or explosion hazard if there is a leak of refrigerant and the gas comes into contact with an ignition source.
- Do not use in a room with any continuous sources of ignition, for example open flames, gas fires or hobs, cigarettes or any other sources of ignition.
- If the dehumidifier is installed, operated or stored in a non-ventilated area, then the room must be designed to prevent the accumulation of refrigerant leaks resulting in a risk of fire or explosion due to ignition of the refrigerant caused by electric heaters, cookers, or other sources of ignition.
- R290 refrigerant gas is odourless.
- Do not puncture either during the units working life or after. At the end of life dispose of following local recycling regulations.
- If there is any damage to the unit then do not use it and contact Meaco or your retailer.
- As with all dehumidifiers, always keep upright and leave the dehumidifier standing upright for 3-4 hours before using it upon receipt.



Failure to comply with these instructions could result in fire, damage to property, serious injury or potentially death.

Individuals who operate or work on the refrigerant circuit must have the appropriate certification issued by a national accredited organisation that ensures competence in handling flammable refrigerants according to a specific evaluation recognised by national associations in the industry and compliant with the latest R290 guidance.

Servicing should only be carried out by a Meaco approved engineer using original Meaco parts to prevent damage to the unit and potential injury to the engineer.

WIRING INSTRUCTIONS

Should it be necessary to change the plug, please note the wires in the mains lead are coloured in accordance with the following code:

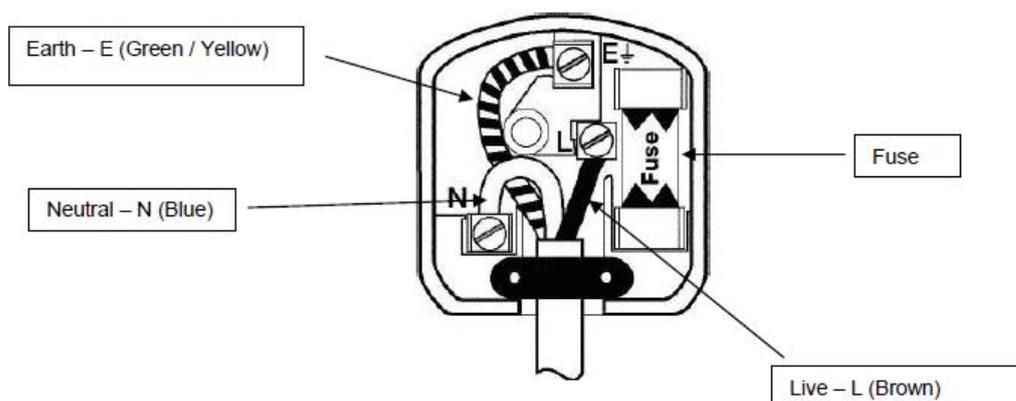
BLUE – NEUTRAL
 BROWN – LIVE
 GREEN AND YELLOW – EARTH

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

1. The **BLUE** wire is the NEUTRAL and must be connected to the terminal which is marked with the letter N or coloured **BLACK**.
2. The **BROWN** wire is the LIVE and must be connected to the terminal which is marked with the letter L or coloured **RED**.
3. The **GREEN/YELLOW** is the EARTH and must be connected to the terminal which is marked with the letter E or coloured **GREEN** or **GREEN/YELLOW**.
4. Always ensure that the cord grip is positioned and fastened correctly.
5. Only ever use the same fuse as fitted in the original product, if in doubt please contact Meaco first, or a qualified electrician.

Example wiring for a Standard British Plug:

Please note: The Earth Terminal is marked with the letter E or Earth Symbol .



GENERAL ADVICE

- Before putting your dehumidifier into operation for the first time, the instruction manual should be studied carefully.
- After receiving the unit, you should check your dehumidifier for any transport damage. In case of damage, you should inform the sender immediately.
- Store the dehumidifier box and packaging in a safe place – this will be required if the dehumidifier requires a service in the future. In order to save space, you can simply cut through the adhesive tape using a knife and fold up the cardboard box.

DEHUMIDIFIER PRINCIPLES

This dehumidifier is designed to reduce humidity from the air in a building or part of a building. The purpose is to help dry laundry, prevent condensation, mould, musty air and other issues associated with high relative humidity.

The time necessary for the dehumidifier to dry a room and reach the desired relative humidity depends on the environmental conditions prevailing within the room. For example, the number of air changes with outside, any sources of moisture, and the room temperature can all either speed up or slow down the dehumidification process.

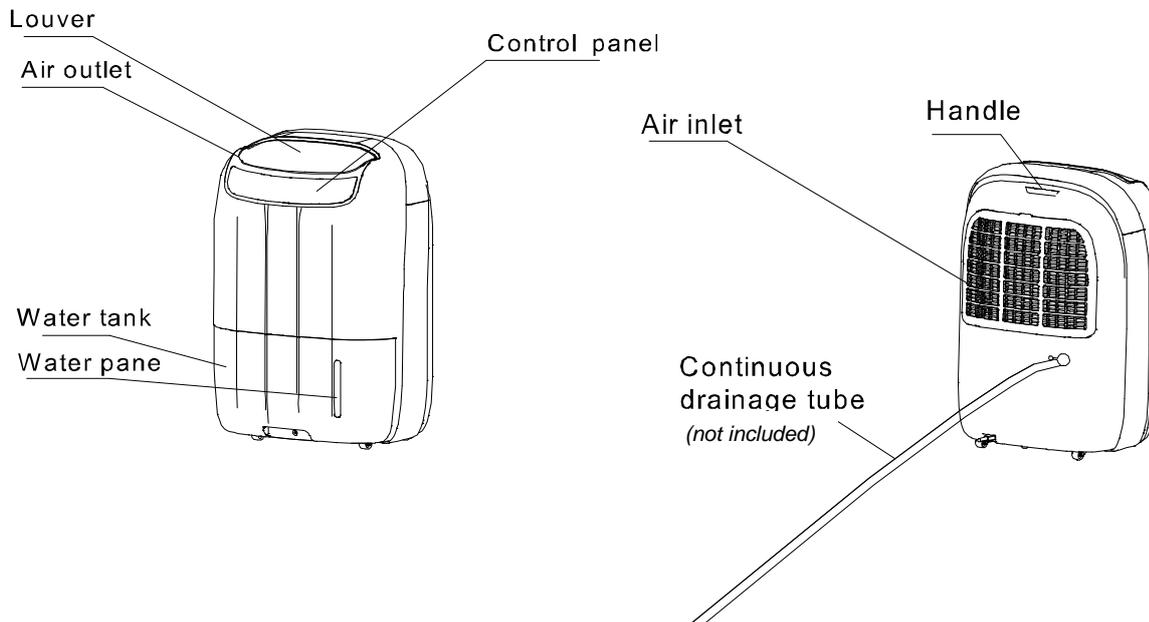
The dehumidifier functions according to the condensation principles with heat recovery. The fan takes the humid air from the room, in and across a filter, and then through an evaporator. Here the air is cooled below dew point, so that the water vapour of the air forms a condensate on the coils, which flows into the internal container ready to be poured away. The cooled and dried air is heated again by a condenser. By recycling the room air through the dehumidifier repeatedly, the moisture content and relative humidity of the air is reduced.

INSTALLATION AND TRANSPORTATION

For installation and transportation, the following instructions must be considered:

- Before using the dehumidifier, leave it to stand upright for 4 hours.
- Plug the unit directly into a wall socket and switch on using the ON/OFF button on the unit.
- Ensure there is at least 30cm of space around the unit to enable adequate air flow. The air inlet and the air outlet must not be covered whilst the dehumidifier is in operation.
- Make sure the water tank is securely in place. The unit will not switch on unless the water tank is secure.
- If you need to move the dehumidifier, it must be switched off by its ON/OFF switch on the unit. The mains plug must be removed from the socket and the water tank should be emptied.
- For transportation, the dehumidifier should be secured on a level base only and must be prevented from rolling around.
- The dehumidifier must always be transported vertically – if the dehumidifier has been in a horizontal position for any time over a few minutes, you must let it stand in the upright position for at least 30 minutes before operating. This allows the oil to drain back into the compressor.

PRODUCT IDENTIFICATION



As a company we understand the urgency of Climate Change and recognise how important it is to play our part in becoming more environmentally friendly. For this reason, we have stopped including continuous drainage hoses in our dehumidifiers to reduce the amount of plastic waste created, as most of our customers do not use them. If you would like to use the continuous drainage option on your dehumidifier, you can either purchase a hose from our website (www.meaco.com) or use a garden hose that has an internal diameter of 12mm.



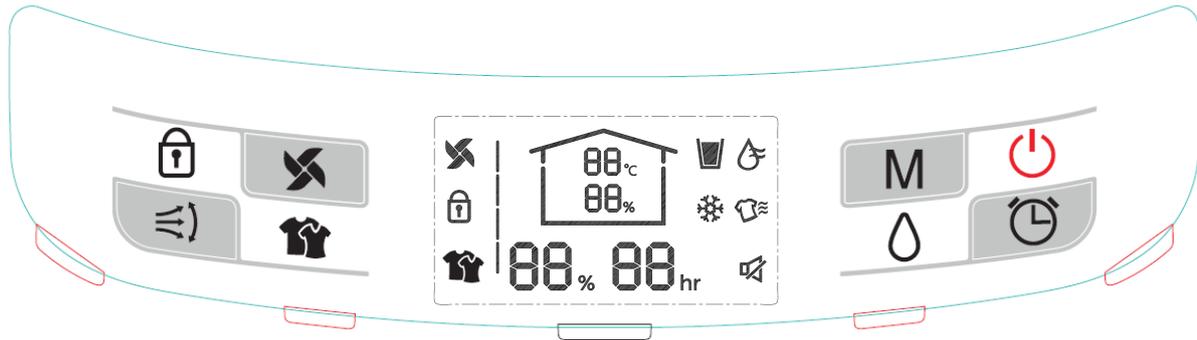
HOW TO EMPTY THE WATER TANK

The water tank is found on the front of the unit. In order to empty the water tank, simply pull the tank out from the unit, remove the lid and empty the water. The water collected can be used to water house plants only – do not consume.

HOW TO USE CONTINUOUS DRAINAGE

If you wish to drain water away continuously and not empty the water tank, a hose can be attached as per the image above. In order to use continuous drainage, remove the water tank from the unit. Open the circular flap on the back of the unit (to the bottom right of the filter) and push the hose through the hole securing it to the internal outlet pipe. Once the hose is in place, put the water tank back into the unit (for continuous drainage to work, the water tank must always be in place). Make sure the hose runs downwards, with no kinks, bends or blockages, to allow water to run out of the unit via gravity.

CONTROL PANEL



ON/OFF BUTTON

When the dehumidifier is plugged into a wall socket, the dehumidifier will bleep and the display will remain blank. Press the ON/OFF button to turn the dehumidifier on or off.

MODE BUTTON



Press the Mode button to move through the four different drying modes: Humidistat Mode, Laundry Mode, Quiet Mode and Auto Mode (see symbols below). Once the desired symbol appears on the display, stop pressing the Mode button, and the mode will be set. Please note, the Auto Mode symbol will not appear on the right-hand side of the display, when in Auto Mode, only the temperature and humidity inside the house will be displayed.

THE DRYING MODES

HUMIDISTAT MODE: Use to set a target relative humidity.



When in Humidistat Mode, you can press the Humidistat button (see page 8) to select a target relative humidity between 30%rh and 80%rh. The target relative humidity increases in steps of 5%rh. We recommend the dehumidifier is set to either 50%rh or 55%rh for use in the home.

Using this button, the dehumidifier can also be put into Continuous Mode (CO). In CO mode the dehumidifier will not stop, it will continue to dry the environment regardless of the room relative humidity.

LAUNDRY MODE: Use to help dry laundry.



When in Laundry Mode, the Laundry symbol will appear on the display, along with CO. The fan speed will automatically increase to the highest fan speed (number four), which is only available in Laundry Mode. Having this higher fan speed is key to drying laundry faster. We recommend activating the swing louvre to help evenly distribute air across the laundry.

**** When drying laundry make sure water cannot drip onto the dehumidifier as this could be dangerous. ****



QUIET MODE: Use to control the noise level of your dehumidifier.

When in Quiet Mode the dehumidifier will drop to low fan speed to reduce the noise coming from the dehumidifier. The dehumidifier will not bleep.



AUTO MODE: Ultimate control of the room relative humidity.

Auto Mode uses the unique MeacoEasyRH Control Program whereby you can press just one button and the dehumidifier will automatically maintain an optimum relative humidity for you as follows:

- When the relative humidity reaches 45%rh, the compressor is turned off, but the fan stays on in low mode.
- Between 50%rh and 55%rh the compressor is on and the fan speed is low.
- Between 55%rh and 65%rh the compressor is turned on and the fan reverts to fan speed two.
- Above 65%rh the compressor is on and the fan speed is on high.

HUMDISTAT BUTTON



The Humidistat button can be used to select a target relative humidity between 30%rh and 80%rh in Humidistat Mode (see page 7). Press the Humidistat button until you reach your desired target relative humidity. The dehumidifier will run until the target humidity level has been reached.

OFF TIMER BUTTON



The OFF-Timer acts as a countdown timer. This can be used if you want the dehumidifier to run for a set number of hours and then switch off. Press the OFF-Timer button until you reach the desired number of hours you want the dehumidifier to run for (it can be set between 1 and 12 hours). This is not a daily run timer and needs to be set each time you wish to use it.

FAN SPEED BUTTON



Press the Fan Speed button to choose between one of three different fan speeds: low, medium and high. The symbol on the display will change highlighting the fan speed currently in use. This button can only be used when in Humidistat Mode.

CHILD LOCK BUTTON



Press the Child Lock button for three seconds to activate child lock. This stops the functions of the dehumidifier from being changed. The dehumidifier cannot be turned off when child lock is activated. To deactivate child lock, press the Child Lock button again for three seconds.

LOUVRE SWING BUTTON

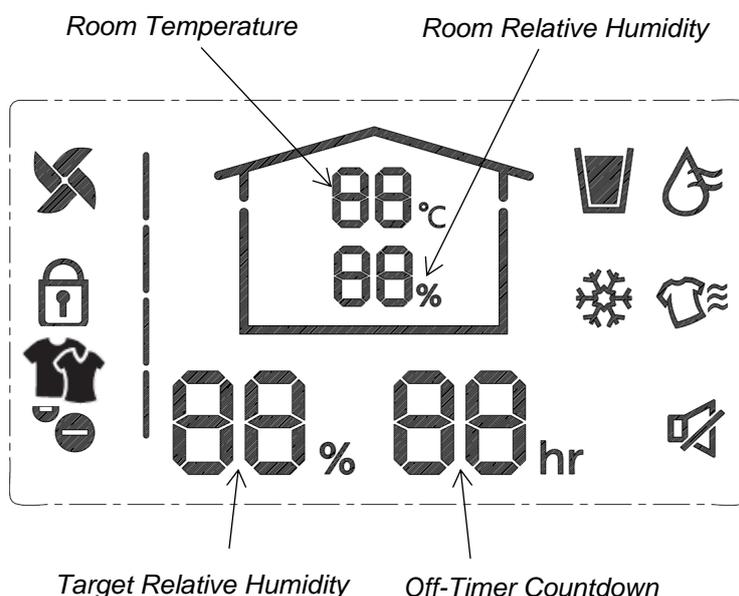


Press the Louvre Swing button to turn the swing mode on or off. When switched on, the louvre will automatically move up and down distributing the air evenly. When the louvre swing is switched off, the louvre can be moved into a fixed position manually in order to direct the airflow.

LAUNDRY BUTTON



This button can be used as short cut to reach Laundry Mode (see above). Press the button once to activate Laundry Mode. To come out of Laundry Mode, press the Mode button to select a different mode.



WATER TANK FULL INDICATOR

When the water tank is full the dehumidifier will bleep ten times and then switch off. Once the water tank has been emptied and placed securely back in the dehumidifier, the dehumidifier will start to run again as per its previous settings. In Quiet Mode the unit will not bleep, it will just switch off.

DEFROST MODE



This dehumidifier is equipped with an automatic hot-gas defrosting system. When operating in low temperatures, the surface of the evaporator will accumulate frost which effects the efficiency of the dehumidifier. When this happens, the machine will automatically go into periodic defrosting and the snowflake symbol will appear on the display. The time the unit is in defrost mode will vary. This is not a fault; it is part of the dehumidification process. It is not recommended to use the dehumidifier in temperatures below 5°C.

OTHER FUNCTIONS

MEMORY FUNCTION / AUTO RE-START

When the dehumidifier is switched off, either by the ON/OFF button or via a power cut, when turned back on the dehumidifier will continue to run in the same settings it was previously running on.

If you wish to reset the dehumidifier to its factory default settings switch the dehumidifier off using the ON/OFF button, unplug it from the mains, wait a few minutes, plug it back into the mains and then switch the unit back on using the ON/OFF button.

ENERGY CONSUMPTION

This dehumidifier uses a DC motor which is unique for a domestic dehumidifier. One of the big advantages of a DC motor is that the harder you work it, the more efficient it becomes. For example, when the dehumidifier is used in Laundry Mode, more water is collected faster, whilst using less energy.

WHAT MEACO RECOMMENDS

GENERAL USE IN THE HOME

For general use we recommend positioning the dehumidifier in a central position within your home, for example the landing or hallway. If you have more of a problem in one area of your house/flat, place the dehumidifier closer to that area. Leave all the interior doors open and keep the windows closed. Moisture in the air, from the entire house, will migrate towards the dehumidifier allowing the machine to reduce the relative humidity level. For best results, leave your dehumidifier running 24/7.

Please note, when you first start using your dehumidifier, you may find it will run continuously, collecting a large amount of water, or struggling to reach the target humidity level. This is completely normal. There will be a lot of excess water in the environment that the dehumidifier needs to remove, meaning it must work a lot harder. After a few weeks, the humidity level will stabilise meaning your dehumidifier will run less frequently and collect less water.

DRYING LAUNDRY

One of the big advantages of this dehumidifier is its ability to help you dry your laundry faster. This is a result of the dehumidifier's large extraction rate, its powerful forth fan speed, the swing louvre and its low running costs in Laundry Mode.

To dry laundry faster, place the laundry and the dehumidifier into as small a room as possible, with all the doors and windows closed. Position the dehumidifier so that its dry air can hit as large an area of washing as possible and position the laundry so that the air can circulate around them. If possible, use a pedestal fan to speed up the airflow and push more dry air across more of the laundry. Some warmth in the room will also help.

MAINTENANCE

Always turn off the power and disconnect the main cable before performing maintenance procedures.

INSPECT ELECTRICAL SYSTEM

- Inspect the electrical cord for damage at regular intervals.

CLEANING THE EXTERIOR

- Clean the exterior with a soft, dry cloth. If the device is extremely dirty, use a mild cleaning agent or wipe the dehumidifier with a slightly damp cloth. Never spray the device with water.

CLEANING THE FILTER

The filter is a life-long filter which should not need to be replaced (other than for wear and tear reasons). When used regularly, the filter may become clogged with dust and dirt particles. The filter must be cleaned a minimum of every two weeks (not doing so could invalidate the units' warranty). Please use the following steps:

- Remove the filter.
- Clean both sides of the filter with the end of a Hoover or soapy water no hotter than 40°C. Rinse and dry completely before inserting back into the dehumidifier.

STORAGE

If the machine will not be used for a long period of time, take the following steps:

1. Remove the plug from the socket and empty the water tank. Allow the water tank and the dehumidifier to dry completely, this can take a couple of days.
2. Clean the filter and store the device in a dust-free location away from direct sunlight, preferably covered with a sheet of plastic.

SPECIFICATIONS

ELECTRICAL CONNECTIONS

This dehumidifier is designed to operate in a 230V~50Hz electrical installation. Make sure that the electric sockets are connected to earth and that all safety precautions are taken.

OPERATING CONDITIONS

This dehumidifier can be operated within an ambient temperature range from +5°C to +35°C, and with a relative humidity from 30%rh to 90%rh. It is suitable for applications in domestic situations, museums and archives.

Temperature Range		+5 °C / +35°C
Relative Humidity Range		30% - 90%rh
Rated Voltage		220 - 240V / 50Hz
Air Flow		150/170/215/280 cubic metres per hour
Tank Size		5 litres
Power Consumption		350W
Refrigerant		R290 / 90g
Drying Capacity (L/24H)	26.7°C – 60%rh	15 litres per day in Laundry Mode
	30°C – 80%rh	25 litres per day in Laundry Mode
Dehumidifier Dimensions (mm)		378 x 287 x 644
Box Dimensions (mm)		432 x 341 x 692mm
Nett / Gross Weight (kgs)		15Kgs

TROUBLE SHOOTING

TROUBLE	CAUSE	SOLUTION
Unit does not operate	There is no power to the unit.	Plug in the unit and check the power outlet.
	The ON/OFF button has not been pressed.	Press the ON/OFF button.
Unit does not dehumidify or collects little water	Ambient temperature is lower than +5°C (C2 appears on the display and you will hear 3 long bleeps and 2 short bleeps).	Under this condition the dehumidifier becomes inefficient. It is recommended to switch off the dehumidifier.
	Ambient temperature exceeds 35°C (C2 appears on the display and you will hear 3 long bleeps and 2 short bleeps).	Under this condition the compressor is overloaded and switches off automatically. It is recommended to switch off the dehumidifier.
	The ambient air humidity is lower than 45%rh.	Under this condition the dehumidifier becomes inefficient and little water will be collected.
	The air filter is dirty and blocked.	The air filter must be cleaned. If the air filter is beyond cleaning, it must be replaced.
	Below the relative humidity set point.	This is normal and is not a fault.
The compressor is not on	The dehumidifier has just turned on.	Wait three minutes for the compressor to start up.
	Unit is in defrost mode – the defrost symbol will appear on the display.	This is normal and not a fault (please see page 9).

The fan is not running	The relative humidity is below the set point.	This normal and is not a fault.
	The fan is not running.	Please contact Meaco.
	The room temperature is lower than +5°C.	Make sure that the device is being used in an environment of 5°C and above.
The unit does not defrost	The room temperature is lower than +5°C.	Make sure that the device is being used in an environment of 5°C and above.
	Defective bypass relay valve.	Please contact Meaco.
The unit beeps ten times	The water tank is full.	Please empty the water tank.
The buttons do not work	C2 flashes on the display and shows: 0°C and 0%rh.	Please contact Meaco.
C1	Evaporators NTC open/short circuit OR evaporators NTC detect temperature above 40 or below 0.	Make sure that the device is being used in an environment of above 5°C and below 40°C.
C2	Sensor disconnected OR NTC detect environment temperature above 40 or below 0.	Make sure that the device is being used in an environment of above 5°C and below 40°C.
C7	Fan motor, wire disconnected or malfunction.	Please contact Meaco.
C8	A pipe has cracked internally causing a gas leak (this is not dangerous).	Please contact Meaco.

If you need to contact Meaco, please use the contact details below.

Contact Number: **01483 234900**
 Contact Email: **customerservice@meaco.com / service@meaco.com**
 Live Chat: **www.meaco.com**

WARRANTY AND CUSTOMER SERVICE

There is a two-year manufacturer's warranty on your dehumidifier from the date of purchase. Please register your purchase at <https://meaco.com/warranty-register> - as a thank you, you will be entered into our monthly free prize draw to help support the David Shepard Wildlife Foundation. Registering also allows us to keep you update with any important developments concerning your product.

Within the two-year manufacturer's warranty, all manufacturing defects will be repaired free of charge (excluding damage to the units' filter and water tank which can be subject to wear and tear).

The following applies:

1. Any repairs or replacement of components during the warranty period will not result in an extension of the warranty period.
2. The warranty will expire if any alterations have been made, not genuine components have been fitted or if the dehumidifier has been repaired by a third party.
3. Components subject to normal wear and tear are not covered by the warranty.
4. The warranty is only valid on presentation of the original, unaltered, and date-stamped purchased receipt.
5. The warranty does not cover damage caused by actions that deviate from those as described in the user's manual or by neglect.
6. The warranty does not cover faults caused by dirt or by third-party products.
7. The warranty does not cover accidental damage.
8. All claims for compensation, including consequential damage, will not be entertained.
9. Using a third-party switching device that turns the dehumidifier on or off via the mains will invalidate the warranty.

To prevent unnecessary expenses, we recommend that you always carefully read the user's manual first. If this does not provide a solution, please call Meaco and we will be happy to help.

This dehumidifier has been imported into the UK and EU by:

*Meaco (UK) Limited
Meaco House
Parklands
Railton Road
Guildford
GU2 9JX*

*Telephone: 01483 234900
Fax: 01483 232700
Email: service@meaco.com
Website: www.meaco.com*

Please record, for future reference, your date of purchase and where you bought the dehumidifier from here.

Date of purchase:

Purchased from www.meaco.com (if not, then please record the supplier's name below).

Suppliers name:

If your dehumidifier develops a fault at any time, please contact us and we will always try and help you as best we can.

Please keep hold of the original box and packaging your unit arrived in just in case we need to collect the dehumidifier from you for a repair/service in the future.



This marking indicates that this product should not be disposed with other household wastes throughout the UK and EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

