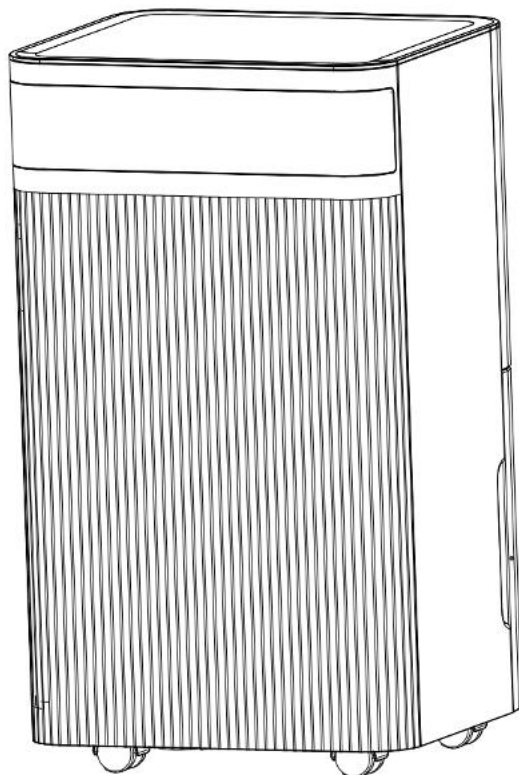




INSTRUCTIONS MANUAL



MODEL: FDE-1244

Please keep this manual carefully for further reference!

Thank you for selecting our dehumidifier. Be sure to read this manual carefully before using it. Any questions, please contact the professional service for help.



1. BEFORE YOU BEGIN

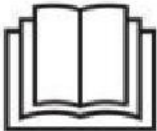
Please read the operating instructions carefully before using your dehumidifier for the first time.

1.1 PRODUCT DESCRIPTION

The dehumidifier is used to remove excessive moisture from the air. The resulting reduction in relative humidity protects buildings and their contents from the adverse effects of excess humidity.

The environmentally friendly R290 is used as the refrigerant. R290 has no damaging influence on the ozone layer (ODP), a negligible greenhouse effect (GWP) and is available worldwide. Because of its efficient energy properties, R290 is highly suitable as a coolant for this application. Special precautions must be taken into consideration due to the coolant's high flammability.

SYMBOLS FROM THE UNIT AND USER MANUAL

 warning	This unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.
	Read the USER MANUAL carefully before operation.
	Further information is available in the USER MANUAL, SERVICE MANUAL, and the like.
	Service personnel are required to carefully read the USER MANUAL and SERVICE MANUAL before operation.

1.2 THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be performed by children without supervision.
- The unit is designed only for use with R290(propane) gas as the designated refrigerant.
- The refrigerant loop is sealed. Only a qualified technician should attempt to service!
- Do not discharge the refrigerant into the atmosphere.
- R290 (propane) is flammable and heavier than air.
- It collects first in low areas but can be circulated by the fans.
- If propane gas is present or even suspected, do not allow untrained personnel to attempt to find the cause.
- The propane gas used in the unit has no odor.
- The lack of smell does not indicate a lack of escaped gas.
- If a leak is detected, immediately evacuate all persons from the store, ventilate the room and contact the local fire department to advise them that a propane leak has occurred.
- Do not let any persons back into the room until the qualified service technician has arrived and that technician advises that it is safe to return to the store.
- No open flames, cigarettes or other possible sources of ignition should be used inside or in the vicinity of the units.
- Component parts are designed for propane and non-incentive and non-sparking. Component parts shall only be replaced with identical repair parts.

FAILURE TO ABIDE BY THIS WARNING COULD RESULT IN AN EXPLOSION, DEATH, INJURY AND PROPERTY DAMAGE



2. FOR YOUR SAFETY



Please read this manual carefully and fully understand before operating your dehumidifier.

2.1 OPERATIONAL PRECAUTIONS

WARNING - to reduce the risk of fire, electric shock or injury to persons or property:

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance must be disconnected from its power source during maintenance.
- Always operate the unit using a power source of equal voltage, frequency and rating as indicated on the product identification plate.
- Always use a power outlet that is grounded.
- Unplug the power cord when cleaning or when appliance not in use.
- Do not operate with wet hands. Prevent water from spilling onto the unit.
- Do not immerse or expose the unit to rain, moisture or any other liquid.
- Do not tilt or turn over the unit.
- Do not unplug while the unit is operating.
- Do not unplug by pulling on the power cord.
- Do not use an extension cord or an adapter plug.
- Do not put objects on the unit.
- Do not climb or sit on the unit.
- Do not insert fingers or other objects into the air outlet.
- Do not touch the air inlet or the aluminum fins of the unit.
- Do not operate the unit if it is dropped, damaged or showing signs of product malfunction.
- Do not clean the appliance with any chemicals.
- Ensure the unit is far away from fire, inflammable, or explosive objects.
- The unit must be installed in accordance with national wiring regulations.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture.

- The appliance must be stored so as to prevent mechanical damage from occurring.
- Do not pierce or burn, even after use.
- Be aware that refrigerants may not contain an odor.
- Pipework should be protected from physical damage and must not be installed in an unventilated space, if that space is smaller than 4m².
- Compliance with national gas regulations must be observed.
- Keep any required ventilation openings clear of obstruction.
- The appliance must be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.



Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry, recognized assessment specification.



Servicing must only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel should be carried out under the supervision of the person competent in the use of flammable refrigerants. If you don't understand something or need help, please contact the dealer services

2.2 SAFETY PRECAUTIONS ON SERVICING

Please follow these warnings if you are to undertake the following while servicing a dehumidifier with R290.

2.2.1 Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repairing the refrigerating system, the following precautions should be complied with, prior to conducting work on the system.

2.2.2 Work procedure

Work shall be undertaken under a controlled procedure in order to minimize the risk of a flammable gas or vapor being present while the work is being performed.

2.2.3 General work area

All maintenance staff and others working in the local area must be instructed on the nature of the work being carried out. Work in confined spaces must be avoided. The area around the workspace must be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

2.2.4 Checking for presence of refrigerant

The area must be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. no sparking, adequately sealed or intrinsically safe.

2.2.5 Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

2.2.6 No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

2.2.7 Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

2.2.8 Checks to the refrigeration equipment

Where electrical components are being replaced, they should be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines must be followed. If in doubt consult the manufacturer's technical department for assistance.

The following checks should be applied to installations using flammable refrigerants:

- The charge size is in accordance with the room size within which the refrigerant containing parts are installed;

- The ventilation machinery and outlets are operating adequately and are not obstructed;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

2.2.9 Checks to electrical devices

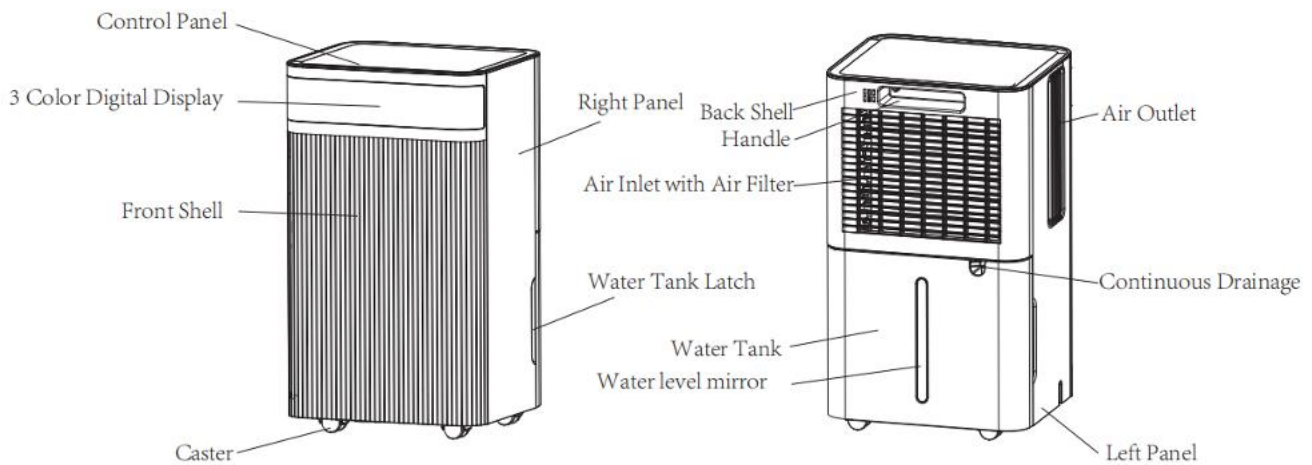
Repair and maintenance to electrical components must include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electricity should be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution should be used. This must be reported to the owner of the equipment so all parties are advised.

Initial safety checks must include:

- the capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- there are no live electrical components and wiring exposed while charging, recovering or purging the system;
- there is continuity of earthing

3. PRODUCT OVERVIEW

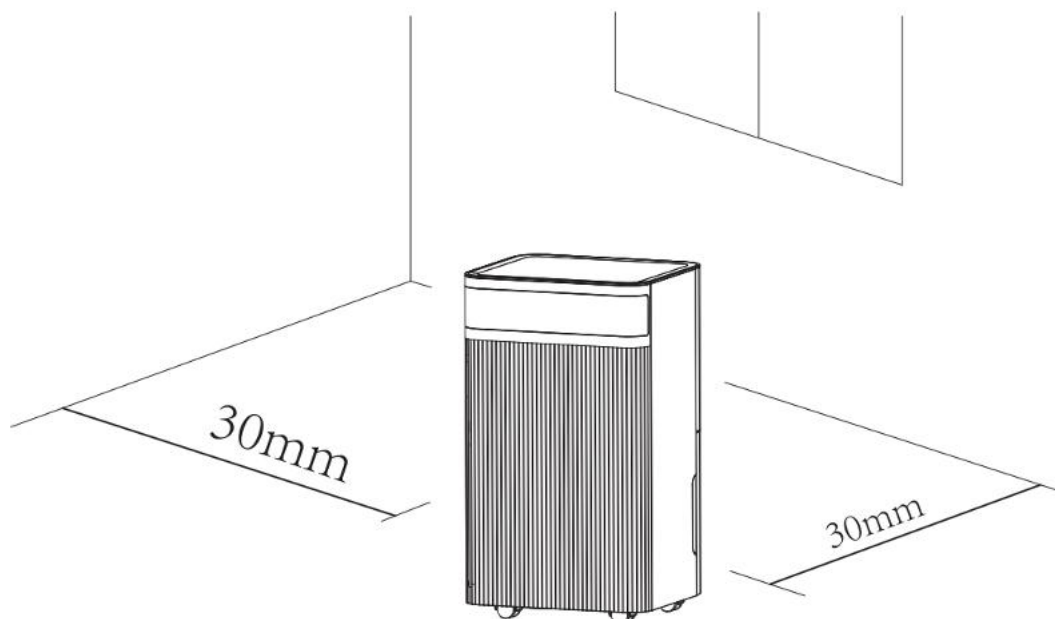
3.1 PRODUCT VIEW



4. INSTALLATION

4.1 LOCATION

1. Place the unit on a firm, level surface in an area with at least 30cm of free space around it to allow for proper air circulation.
2. Never install the unit where it could be subject to :
 - Heat sources such as radiators, heat registers, stoves or other products that produce heat.
 - In an area where oil or water may be splashed
 - Direct sunlight
 - Mechanical vibration or shock
 - Excessive dust
 - Lack of ventilation, such as cabinet or bookcase
 - Uneven surface



WARNING

Install the unit in rooms which exceed 4 m².

Do not install the unit in a place where inflammable gas may leak.

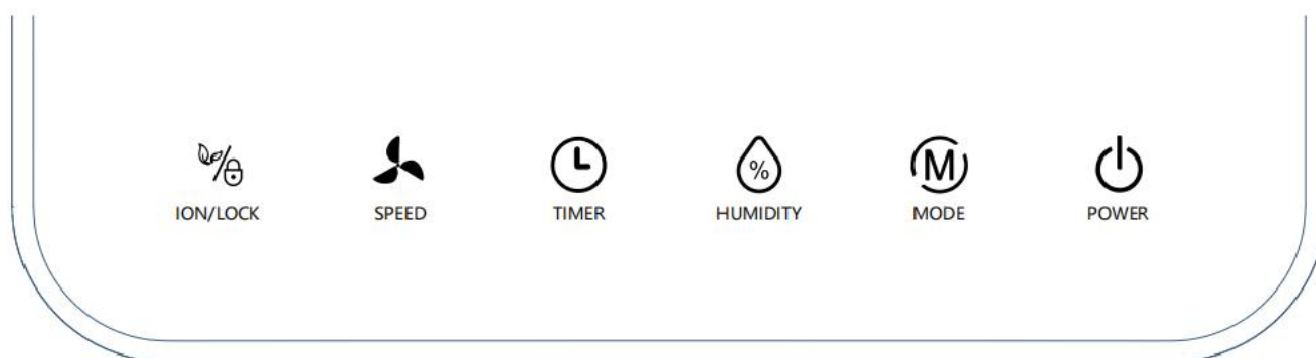
4.2 OPERATING THE DEVICE SAFELY

- Check the device after unpacking for any damages or scratches on it.
- Operate this unit in an ambient temperature from 5°C to 35°C.
- Do not use in the outdoors. This dehumidifier is intended for indoor residential applications only.
- Do not operate in close proximity to walls, curtains, or other objects that may block inlet and outlet.
- Keep the air inlet and outlet free of obstacles.
- If tipped more than 45°, allow the unit to set upright for at least 24 hours before start up.
- Keep doors and windows close for better energy saving.
- Do not operate or store the unit in direct sunlight or rain.
- It is normal for the air outlet to feel warm to touch after continuous operation on hot days.
- Empty the water tank before moving the device.

- Make sure the water tank is correctly fitted otherwise the unit will not operate properly.
- The dehumidifier starts up in the mode selected when the unit was last used.
- The dehumidifier starts dehumidifying if the room humidity is 3% higher than the selected humidity.
- There is a protective 3-minutes time delay of the compressor. Wait 3 minutes for the dehumidifier to resume dehumidification.

5. OPERATION

5.1 CONTROL PANEL



Press the STAND-BY button to turn on the machine, the running indicator lights up and the default fan speed is high, and the default humidity setting is 50%. When the machine is running, press the power button to turn off, the running indicator light goes off and the compressor stops immediately, and then the fan will shut down after 30 seconds delay.



Auto mode - continuously drying mode cycle, press once to switch the mode from one to another, the corresponding indicator lights up.

Long press the mode button to choose sleeping mode.

- **Auto mode**  : When ambient humidity > set humidity +3%, the fan and compressor start working as set.

When ambient humidity < set humidity -3%, the compressor stops working and the fan stops working after 30 seconds' delay.

Both fan speed and humidity can be adjusted under auto mode.

After setting the humidity, the LED back to display the ambient humidity.

• **Continuously drying mode**  : The machine continues to run, not affected by ambient humidity.

Fan speed is adjustable, humidity setting cannot be adjusted.

• **Sleeping mode**  : Long press the mode key to select the sleep mode.

In sleeping mode, if no operation within 10 seconds, the power indicator and sleep indicator turns dark gradually, and other indicators and digital screen are off.

Pressing any button will restore the normal display.

Other functions are the same as auto dehumidifying mode.

In sleeping mode, the fault code is not displayed, the humidity is adjustable, the fan speed defaults to low and is non-adjustable.

In sleeping mode, when the water tank is full, the machine will not alarm, but the water tank full indicator light will be on to remind that the water tank is full and you need to empty the water tank.



HUMIDITY Set button

Press this button to set the humidity (30-80%) or timing time (1-24h)

To humidity adjusting, press one time to add 5%humidity value, the humidity adjusting follow the order as below: 30%-35%-40%-45%-50%-55%-60%-65%-70%-75%-80%-30% cycle

For timing, press one time to add 1 hours timing value, the timing follows the order as below:

00-01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-00 cycle



Timer button

Press the timing key to set timing / check timing / cancel timing

a) While in non-timing state: press the timing key to enter the timing setting state. The digital screen flashes to display the timing time. During the flashing period of the digital screen, press the adjustment key to adjust the timing time (0 ~ 24h).

b) While in timing state: press the timing key, and the digital screen flashes to display the remaining timing time. Press the timing key again during the flashing period of the digital screen to cancel the timing.



Fan Speed button

High speed - low speed cycle, press button once to switch and then the corresponding indicator lights up.



ION/Lock

a) ION : Press this button to turn on the Anion Function. The indicator light will then be on. To turn off the Anion Function, press this button again. The indicator light will then be off.

b) LOCK :

Press and hold this button for 3 seconds to open the lock function, the indicator light will be on and you cannot operate other buttons except this one. Press and hold this button for 3 seconds again to close the lock function, the indicator light will be off.

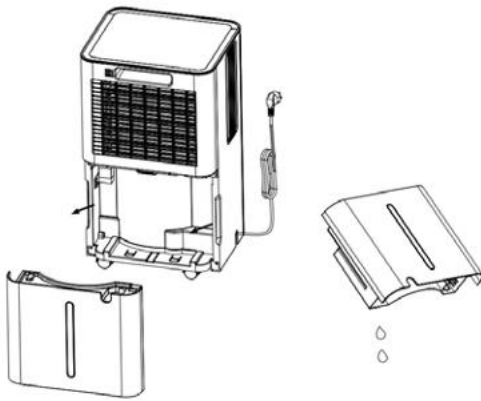
3 Color Digital Display:

Ambient Humidity $\leq 45\%$,	The light is Blue
$45 < \text{Ambient Humidity} < 65\%$	The light is Green
Ambient Humidity $\geq 65\%$	The light is Red

5.2 DRAINAGE:

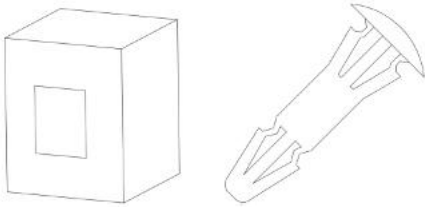
EMPTYING THE WATER TANK

- When the tank is full, the unit will make a buzzing sound, and the "Water Full" light will turn on.
- Press the POWER button to turn off the unit.
- Pull out the water tank and simply slide out of the body of the dehumidifier.
- Empty the water into an area with a drain or outside.
- Clean the inside of the tank as well as the outside.
- Replace the empty tank back into the unit.
- Press the POWER button to resume operation.
- If the Water Full light does not come off, check that the float is correctly in place.



Warning

1. Do not discard water tank magnets and plastic rivets. Otherwise, the machine will not automatically stop working when the water tank is full, and the condensed water will overflow and damage the floor of the room.

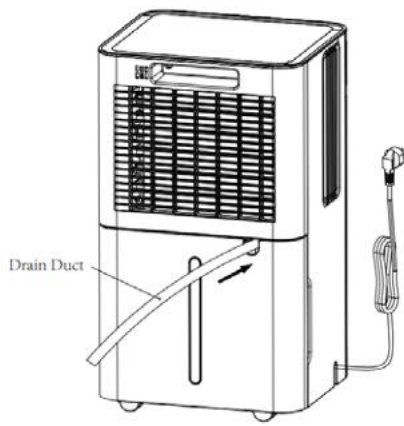


2. Please be sure to clean the condensed water in the water tank before resetting the working mode of the machine.
3. If the water tank is dirty, rinse it with clean water. Avoid using detergents, steel balls, chemical dust removers, diesel oil, benzene, diluents or other solvents. Otherwise, the water tank will be damaged and start leaking
4. Replace the empty tank back into the unit. Otherwise, the water full indicator may remain red and the machine cannot restart.

CONTINUOUS DRAINING

For continuous operation or unattended dehumidification, please connect the attached drain hose to the unit. Condensate water can automatically flow into a bucket or drain by gravity.

1. Straighten the drainage pipe
2. Insert one end of the drain into the cistern hole and connect the other end to the bathroom, outdoor or bucket-like container, or the prescribed drainage area.



Warning

1. Please do not block the drain or drain pipe, if blocked, the condensed water will flow into the water tank.
2. Please do not bend the drain pipe. The height of the drain pipe should be lower than the outlet.
3. The drain pipe must be securely connected to the outlet;

6.MAINTENANCE

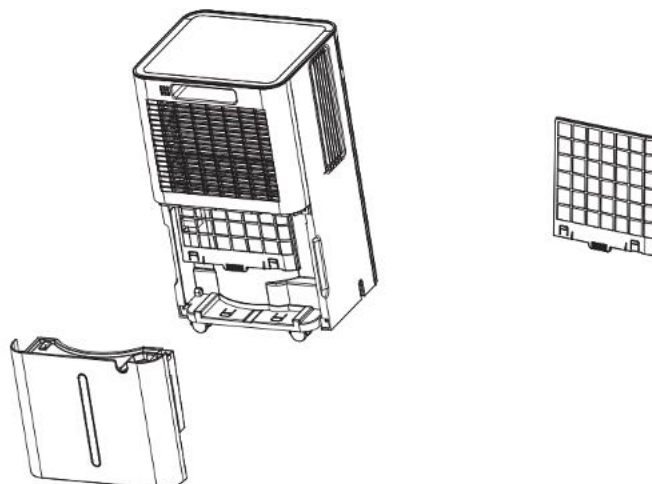
Note: before cleaning and maintaining the machine, be sure to turn off the machine and pull the power plug to prevent electric shock.

• **CLEANING THE AIR FILTER** (every two weeks)

Dust collects on the filter and restricts the airflow. The restricted airflow reduces the efficiency of the system and if it becomes blocked it can cause damage to the unit.

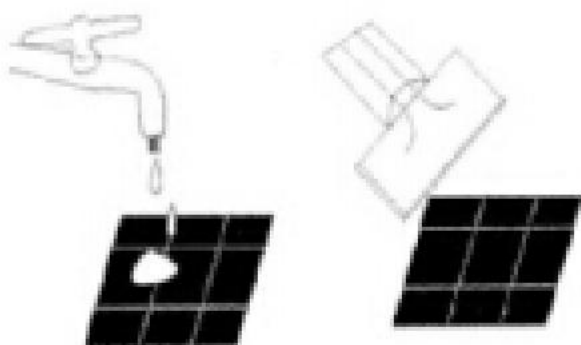
The air filter requires regular cleaning. The air filter is removable for easy cleaning. Do not operate the unit without an air filter, or the evaporator may be contaminated.

1. Take the water tank from the body, and then pull out the filter from the bottom of the rear she

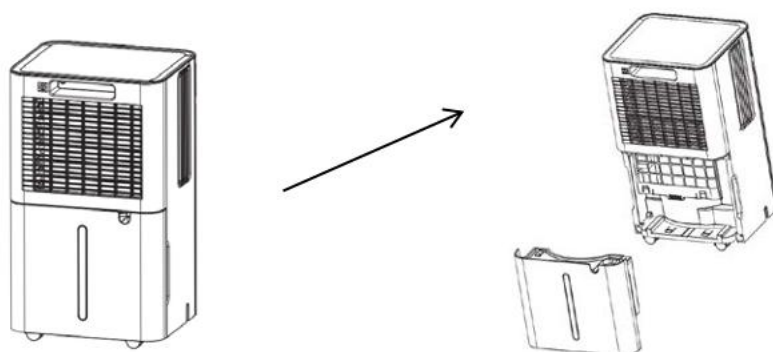


2. Use a vacuum cleaner to gently absorb the dust on the surface.

If the filter is very dirty, wash it with water and a soft detergent and dry it thoroughly afterwards.



3. Put the filter back.



7. TROUBLE SHOOTING

1. FUNCTIONING TEMP.

$5^{\circ}\text{C} \leq \text{Ambient Temp.} \leq 35^{\circ}\text{C}$

When the ambient temp is lower or higher than the functioning temp, the dehumidifier stops.

When $5^{\circ}\text{C} \leq \text{Ambient temp.} \leq 16^{\circ}\text{C}$, the compressor automatically defrosts at intervals; during defrosting, the compressor stops and the fan keeps running.

2. BEFORE CALLING FOR SERVICE

Before contacting professional service, please review the trouble shooting list that includes common occurrences that are not the result of a defect in workmanship or materials.

Problem	Possible Cause	Solution
Not working	No power supply	Connect to a functioning outlet and switch on
	Water Full Indication Flashes	Drain water tank and reset it, or re-position the water tank to right place
	Room temperature < 5°C, or > 35 °C	Self-Protection designed to protect the unit. Can not work under such temperature
Bad functioning	Is the air filter clogged?	Clean the air filter as instructed
	Is the intake duct or discharge duct obstructed?	Remove the obstruction from the discharge duct or intake duct.
No air intake	Is the filter clogged?	Wash the filter
Loud noise when running	Is the machine put in the plat place?	Put the machine on the plat ground
	Is the filter clogged?	Wash the filter
FL	Water tank full	Empter the water tank
E1/E2	Sensor problem	Change a sensor

REMARKS

If the ambient temperature is too high (> 35°C) or too low (< 5°C), or the ambient humidity is too low (< 20%), the dehumidifier shuts down for self- protection. Please move the appliance to a more suitable environment, and manually restart it.

8. DECOMMISSIONING

STORAGE

Long-term storage - If you will not be using the unit for an extended period of time (more than a few weeks) it is best to clean the unit and dry it out completely. Please store the unit per the following steps:

1. Press power button to switch off and unplug the unit.
2. Drain the remaining water from the unit.
3. Clean the filter and let the filter dry completely in a shaded area.
4. Collect the power cord at the water tank.
5. Re-install the filter at its position.
6. The unit must be kept in an upright position when in storage.
7. Preserving the machine in ventilated, dry, and safe place indoors.

ATTENTION:

The evaporator inside the machine has to be dried out before the unit is packed to avoid component damage and molds. Unplug the unit and place it in a dry open area for days to dry it out. Another way to dry the unit is to set the humidity point more than 5% higher than the ambient humidity to force the fan to dry the evaporator for a couple of hours.

DISPOSAL**WARNING!!!**

Releasing refrigerant into atmosphere is strictly forbidden!

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being

NOTICE ABOUT RECYCLING



Your product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste. Please dispose of this equipment at your local community waste collection/ recycling centre.

In the European Union there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!

DECLARATION OF CONFORMITY

Herewith, we declare that this product, complies with the requirements of below directives:

EMC-Directive: 14 / 30 / EU

Low Voltage Directive: 14/ 35 / EU

ErP Directive 09 / 125 / EC

CE Marking: 93 / 68 / EEC

RoHS Directive: 11 / 65 / EU delegated Directive (EU) 15/863



Detailed declaration of conformity can be found at www.fandu.gr

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