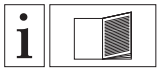
User Manual

DEHUMIDIFIER

DYD-T23A431

Thank you for choosing this product.
Please read this instruction manual before using it.



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.

Recycle unwanted materials instead of disposing of them. All appliances and packaging should be sorted and tendered at a regional recycling centre and be processed in an ecological manner.

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.

Figure1

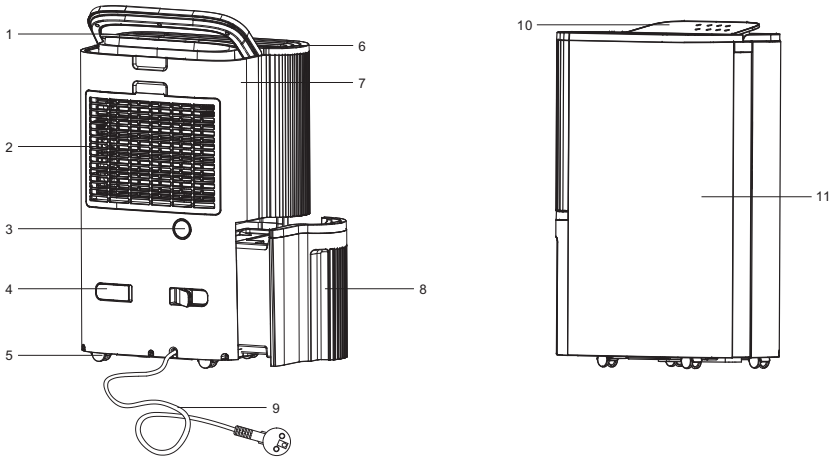


Figure2

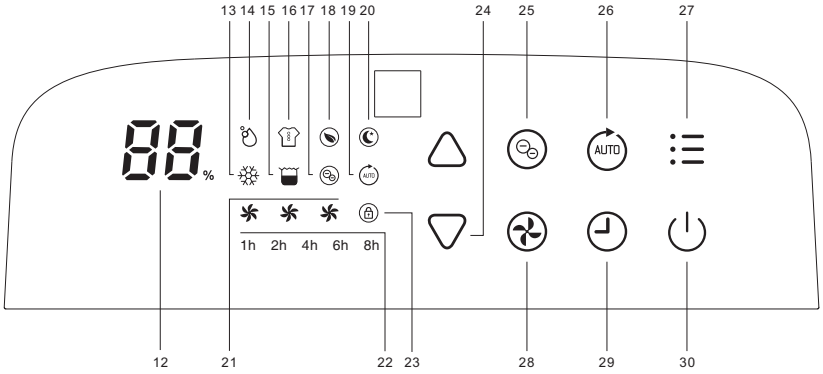
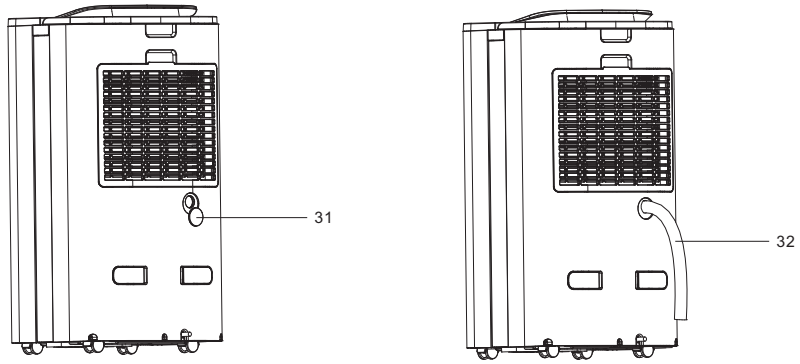


Figure3



Product Description

Components

1. Handle
2. Air Inlet Grille
3. Drainage Outlet
4. Power Cord Bracket
5. Castors
6. Air Outlet
7. Rear Cover
8. Water Tank
9. Power Cord
10. Control Panel
11. Front Cover

Control Panel

12. Humidity Reading
13. Defrost Indicator
14. Manual Dehumidifying Indicator
15. Tank Full Indicator
16. Laundry Drying Indicator
17. Anion Indicator
18. Air Purifying Indicator
19. Auto Indicator
20. Sleep Indicator
21. Fan Speed Indicators
22. Time Indicators
23. Child Lock Indicator
24. Up And Down Buttons
25. Anion Button
26. Auto Button
27. Mode Button
28. Fan Speed Button
29. Timer Off Button
30. Power Button

Drainage

31. Drainage Outlet Plug
32. Drainage Pipe

Table of Contents

Product Instructions

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.

Safety Instructions

- 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 made by children without supervision.
- The unit is designed only for use with R-290(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.
- R-290 (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 store 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.
- 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 shall be disconnected from its power source during maintenance.
- Ensure the unit is far away from fire, inflammable, or explosive objects.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture.

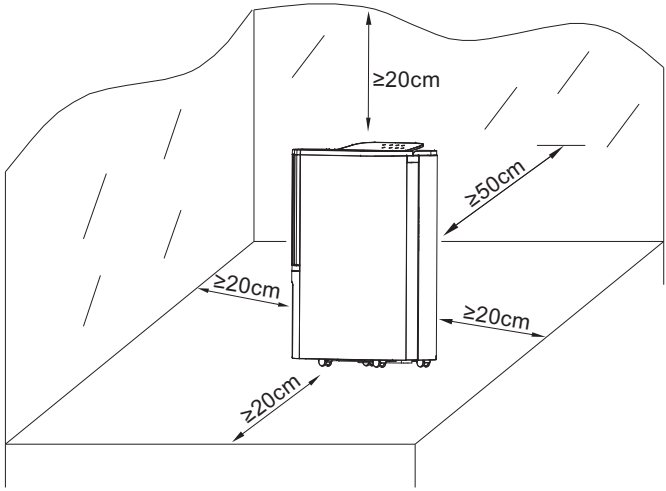
Safety Instructions

- The appliance shall be stored in a room without continuously operation sources (for example: open flames, an operating gas appliance or an operating electric heater).
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Do not piece or burn, even after use.
- Pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than 8 m².
- Compliance with national gas regulations shall be observed.
- Keep any required ventilation openings clear of obstruction.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

⚠ Warning

- Failure to abide by this warning could result in an explosion, death, injury and property damage.
- 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 shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.

Prior to Operation



- Place the dehumidifier in an upright position on a stable, flat surface.
- Ensure the dehumidifier is at a safe distance at least 50cm away from a wall or furniture.
- Supply power should be in correspondence with the value on the nameplate, power outlet needs to be grounded.
- Ensure the tank is correctly fitted, if the tank is full or not in place, the tank full light comes on and the dehumidifier will stop working.

Continuous Drainage

In general, water will be collected by tank, if you want continuous drainage, please do steps as follows: (refer to figure 3)

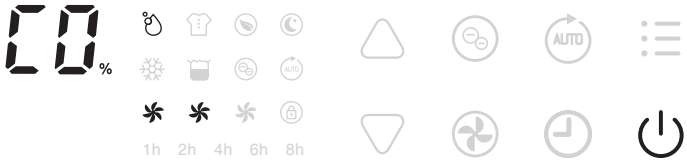
1. Unplug the drainage outlet plug.
2. Insert the drainage pipe with 14mm inner diameter into water outlet.

Please always make sure the pipe is going downhill, is not blocked or kinked.

Operation Instructions

- Connect the power plug to the correct power supply; all indicators and buttons will light up and then will be off.
- Desired setting will be confirmed 3s after the operation.

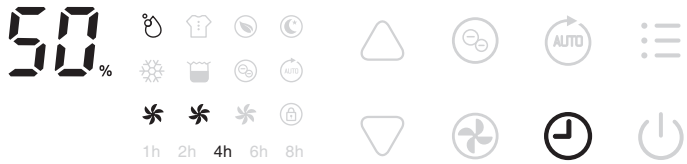
Switch On / Switch Off The Unit [Power button]



Press the power button once to turn on the unit, the unit runs by default mode on manual continuous dehumidifying with medium fan speed.

- Press the power button to turn off the unit, it will stop working, fan will work for some seconds to blow out the hot air inside the unit.

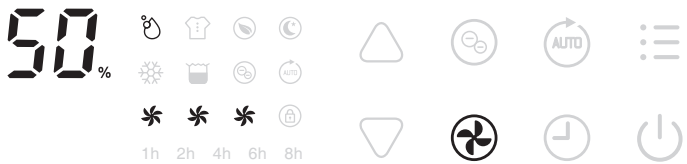
Auto Shut-off Timer Function [Timer button]



Press the timer button to select your preferred timer hour from 1h-2h-4h-6h-8h-cancel for automatic shutoff by each press.

- Auto timer off setting will be canceled if press timer button for 2 times in 3 seconds.
- Auto timer off setting will be canceled if switch off the unit and switch on again.

Fan Speed Option [Fan Speed button]



Press the fan speed button to select your preferred fan speed setting of low, medium and high to meet the different usage requirements.

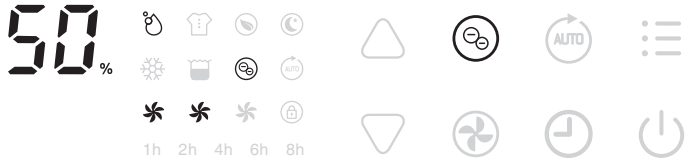
- Fan speed button is invalid at laundry drying mode, auto mode and defrost mode.

Operation Instructions

Humidity Setting [Up and Down buttons]

Press the up/down buttons to select your preferred humidity from CO-30%-35%-40%-45%-50%-55%-60%-65%-70%-75%-80%-CO. CO means continuous dehumidifying regardless of ambient humidity.

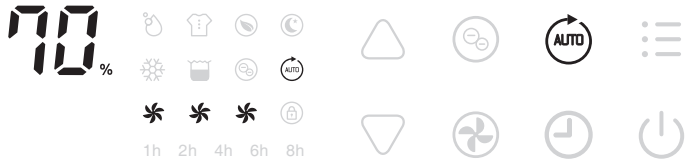
Anion Function [Anion button]



Press the anion button to activate the anion function to fresh up the air quality.

Anion function will be off automatically when the fan stops working.

Auto Dehumidifying Function [Auto button]



Press the auto button to select the auto dehumidifying mode, the unit runs automatically accordance to the ambient humidity detected below.

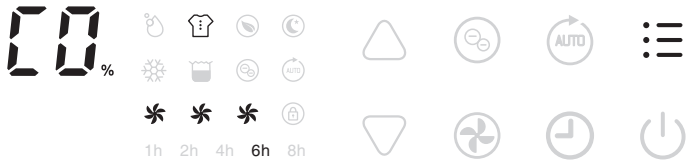
Ambient RH% detected	Compressor	Fan Speed Level
RH%＞65%	Woking	High
55≤RH%≤65	Woking	Medium
RH%＜55%	Stop working	Low

Fan speed button and up/down buttons are invalid.

Operation Instructions

Multifunction Optional [Mode button]

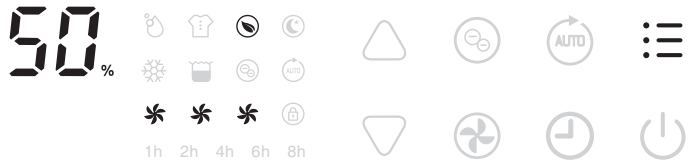
- **Laundry Drying Mode**



Press the mode button once to select Laundry Drying mode, the unit runs in continuous dehumidification with high fan speed for 6 hours then switch off automatically.

Fan speed button and timer button are invalid.

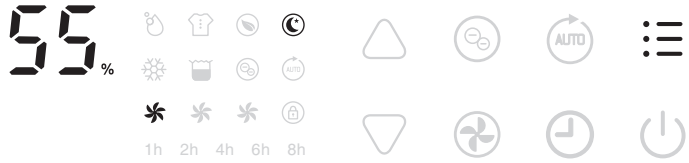
- **Air Purifying Mode**



Press the mode button 2 times to select Air Purifying mode, the unit runs with high fan speed without dehumidifying.

Fan speed button is valid.

- **Sleep Mode**



Press the mode button 3 times to select Sleep mode, the unit runs with a designated humidity setting of 55% along with low fan speed. All indicators will be off 5s after the setting is completed. Touch any button to activate the light, and to operate as usual.

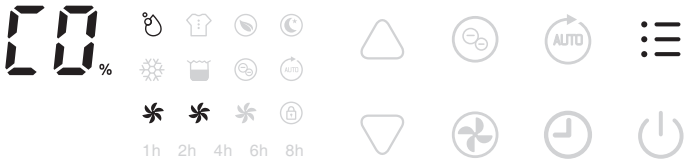
Fan speed button is valid.

With no further operation after activate the light for 30s, lights will be off again.

When the water tank is full on sleep mode, water tank full indicator will always be on.

Operation Instructions

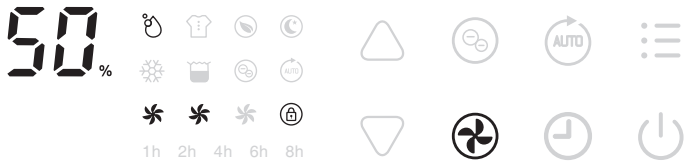
- **Manual Mode**



Press the mode button 4 times to select Manual mode, the unit runs by default continuous dehumidifying with medium fan speed.

At manual mode all buttons are valid.

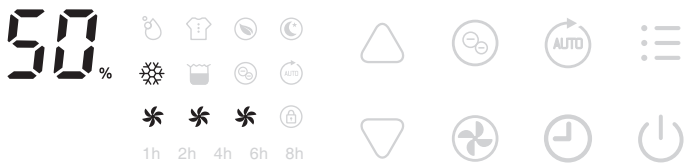
Safety Childlock Function [Fan Speed button-2 seconds]



Press the fan speed button for 2s to lock all the buttons with a beeping sound, the same operation can unlock it.

Safety childlock function can be set at standby mode and working mode.

Low Temperature Defrost Mode

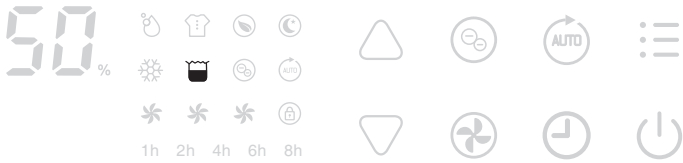


When the ambient temperature is too low, dehumidifier will enter into the defrost mode, the unit runs with high fan speed without dehumidifying.

Fan speed button is invalid.

Operation Instructions

Auto Shut off with Water Tank Full Indicator



The unit will go into standby mode when water tank is full or the water tank is not installed properly. After emptying the tank or install the water tank properly, the unit will go on to the previous mode.

Except for the power button, all other buttons are invalid.

Memory Function:

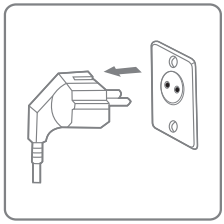
a.When unplugged directly or power cut, then reconnected to the power supply, the dehumidifier will run with the mode prior to the shutdown. The timer setting will be kept.

b.Press the power button to switch off the dehumidifier, and then press the power button to switch it back on. The dehumidifier will run with the mode prior to the shutdown. The timer setting will be canceled.

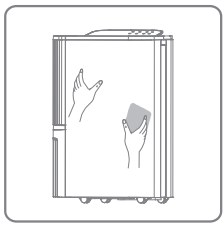
c.Switch off the device and unplug the power cord, then reconnect the power supply and switch on the dehumidifier. It will run as factory preset mode the first time you received the dehumidifier.

Cleaning

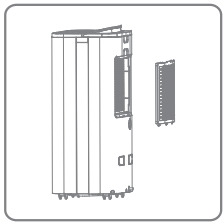
When used regularly , the filter may become clogged with dust and particles. Therefore the filter should be cleaned at least every two weeks. Follow these steps:



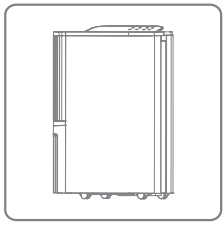
1. Switch the device off and remove the plug from the socket before cleaning.



2. Clean the housing with soft, dry cloth. If the device is extremely dirty, use a mild cleaning agent. Wipe the dehumidifier with a slightly damp cloth. Never spray the device with water.



3. Remove the filter, clean the filter with a vacuum cleaner or soapy water no hotter than 40℃.



4. Rinse and dry the filter completely before installing back to the device.

Storage

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

1. Remove the plug from the socket and empty the tank, make the tank and the dehumidifier dry completely, this may take a couple of days.
2. Clean the air filter.
3. Check the dehumidifier for perfect condition to ensure a safe use of it after a long period of storage.
4. Pack the device with the suitable packaging.
5. Store the dehumidifier in a dust-free and out of direct sunlight location, preferably covered with a sheet of plastic.

Display Error Codes

Please contact local distributor if any of the error codes below appears.

Display Code	Error	Display	What is happening
E1	Temperature sensor error	Flash every 30 seconds	Machine works normally.
E2	Humidity sensor error	Flash every 30 seconds	Machine works normally, but can't set the humidity.
L3	Air inlet temperature is too high ⩾42ºC	Slowly flash L3	Compressor stop working, fan works at low fan speed. 10mins later, if the temperature decrease to below 40ºC, machine will work normally.
L4	Air inlet temperature is too low ⩽0ºC	Slowly flash L4	Compressor stop working, fan works at low fan speed. 10mins later, if the temperature increase to above 2ºC, machine will work normally.

Safety Precautions On Servicing

Please follow these warnings when to undertake the following when servicing a dehumidifier with R290.

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 repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

Work procedure

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

General work area

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

Checking for presence of refrigerant

The area shall 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.

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 CO^2 fire extinguisher adjacent to the charging area.

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.

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.

Safety Precautions On Servicing

Checks to the refrigeration equipment

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

The following checks shall 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.

Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall 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 shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

-those capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;

-that there no live electrical components and wiring are exposed while charging, recovering or purging the system;

-that there is continuity of earth bonding.

Releasing refrigerant into atmosphere is strictly forbidden!

Trouble Shooting

Check the following before contacting technical support.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The device does not work	The power is not connected	Insert the plug into the wall outlet
	The water tank is full	Empty the tank
	The tank has not been replaced correctly	Replace the tank
Water removal capacity is too low	Runtime is too short	Be patient and wait
	Ambient temperature or humidity is too low	It is normal that the device does not dehumidify in these conditions
The device works, but reduces the relative humidity insufficiently	The room is too big	We recommend using a dehumidifier with a greater capacity
	There is too much ventilation	Reduce ventilation(e.g. close windows and shut doors)
	The air filter is clogged	Clean the air filter
	Set humidity is higher than the ambient humidity	Set the humidity lower than ambient humidity
Dehumidifier is blowing out warm air	The dried air is passed over heating coils before it is blown into the room as part of the dehumidifying process	This is normal, a dehumidifier is not an air cooler
The display is not showing the humidity set point	The display shows the room relative humidity not the set point	Press the up or down button once to see the target relative humidity
Water on floor	There is residual water in tank, and the device is lurched too much by moving	Be careful when move the tank
The dehumidifier is noisy	The air filter is blocked or the device is on an uneven surface	Clean the filter or put the device on a flat surface