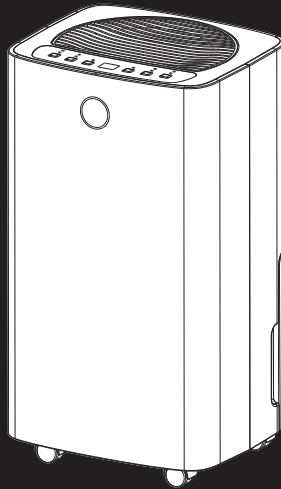


devola

Comfortable living everyday

Instruction Manual



Devola 12L Compressor Dehumidifier

DV12L | DV12LWF



devola.co.uk

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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 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 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 DAMA

2. FOR YOUR SAFETY

Your safety is the most important thing we concerned!




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 A-weighted sound pressure level is below 36 dB.
- The appliance shall be disconnected from its power source during maintenance.
- Always operate the unit from 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 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 leave the unit running unattended. 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 shall 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 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.
- Be aware that refrigerants may not contain an odour.
- Pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than 4m².
- 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.

 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.

If you don't understand something or need help, please contact the dealer services



PLEASE MAKE SURE THE MACHINE WILL KEEP STANDING UPRIGHT FOR 24 HOURS BEFORE YOUR FIRST TIME USAGE , OR ELSE , IT MAY DAMAGE THE COMPRESSOR OF DEHUMIDIFIER

2.2 SAFETY PRECAUTIONS ON SERVICING

Please follow these warnings when to undertake the following when 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 repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

2.2.2 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.

2.2.3 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.

2.2.4 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.

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 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.

2.2.9 Checks to electrical devices

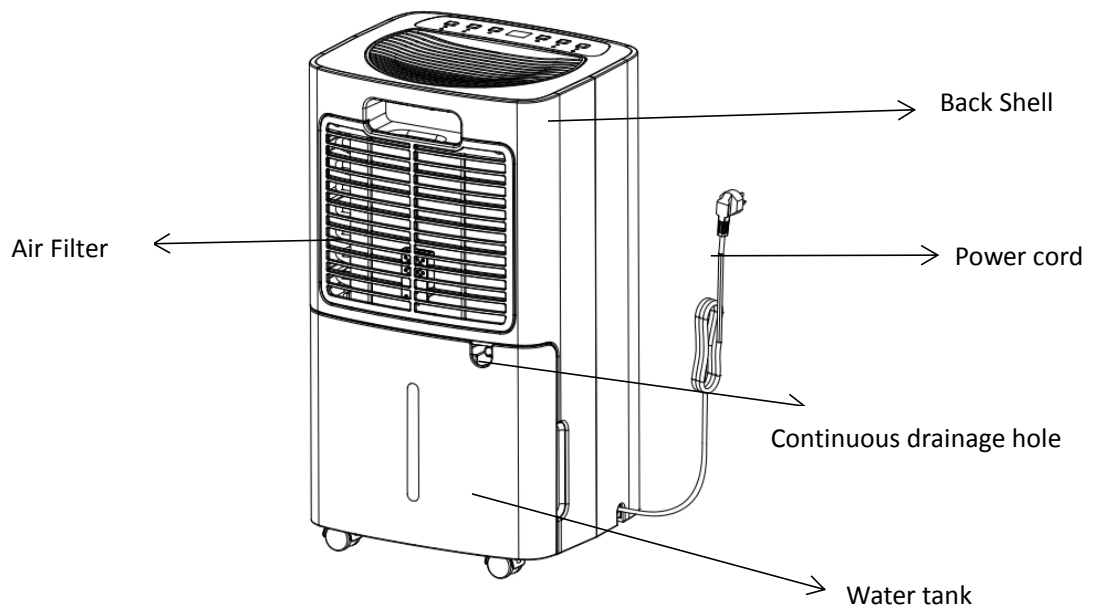
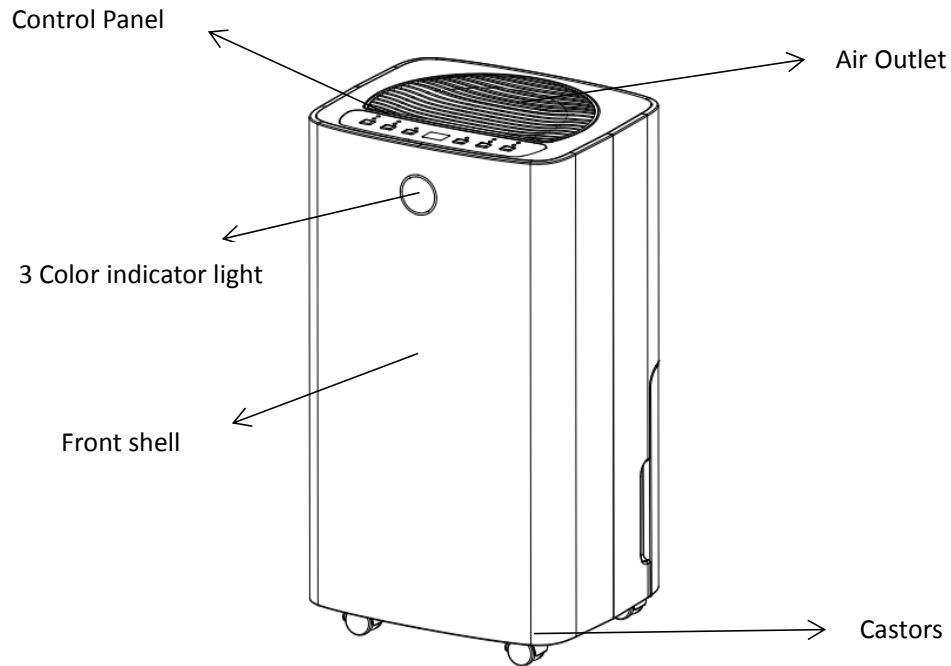
Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected 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

3. PRODUCT OVERVIEW

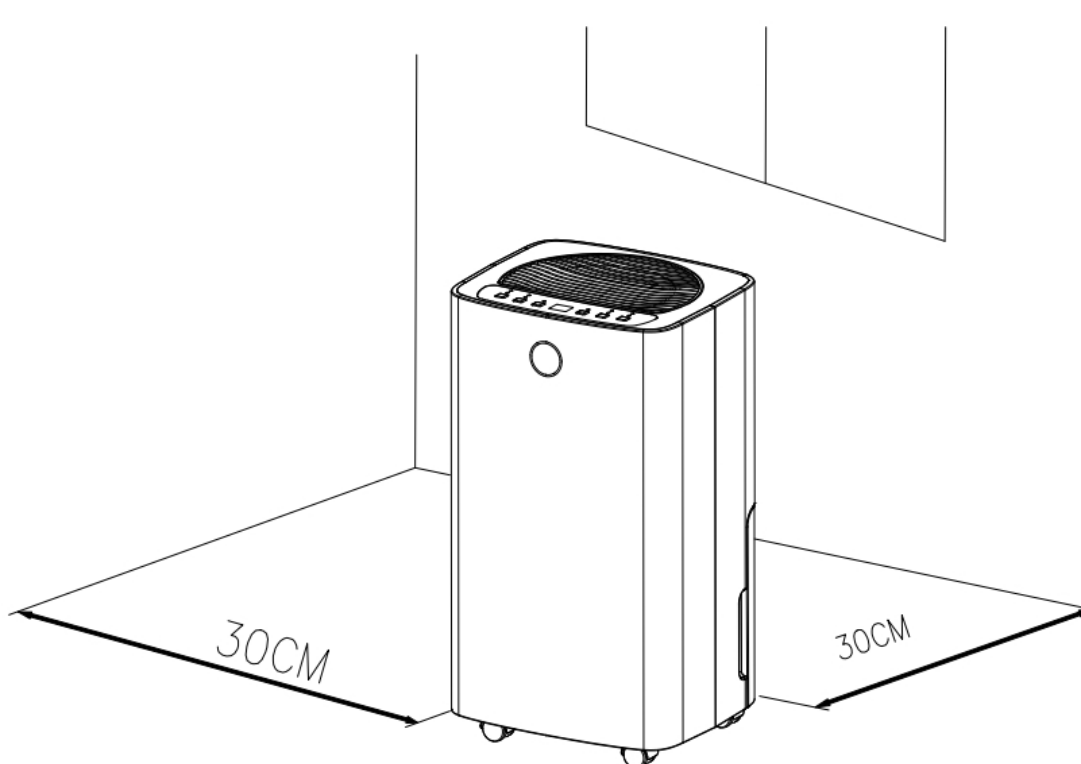
3.1 FRONT VIEW



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**

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

 **NOTE**

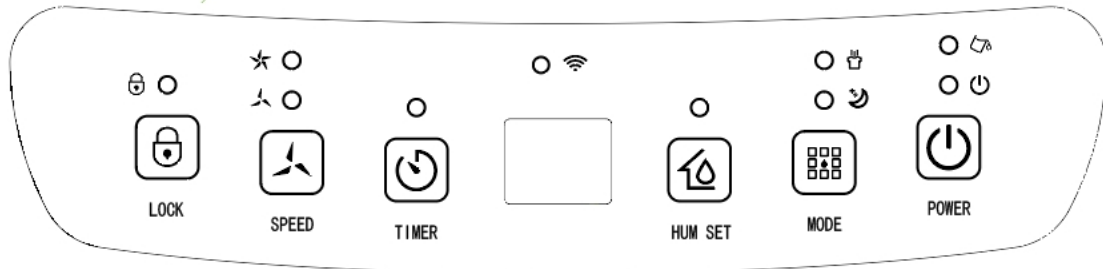
The manufacture may provide other suitable example or may provide additional information about the refrigerant odour.

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.
- Adjusting the wind deflector in the upward direction prior to start up.
- If tipped more than 45°, allow the unit to set upright for at least 6 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 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 dehumidify

5. OPERATION

5.1 CONTROL PANEL



POWER button

Press the power button to turn on the machine, the running indicator lights will be on and the machine will enter common mode automatically

Press the power button again to turn off the machine, the running indicator lights will be off and the compressor will stop immediately, the fan will also stop after 30 seconds later.



MODE button

The machine has 3 modes : Common mode , Continuously dehumidify mode, Sleeping mode

Press mode button to switch from one to another, the corresponding mode indicator light will be on after you choose one mode

● **Common mode:**

Under this mode, the default humidity setting data is 50%RH

When room humidity \geq setting humidity data +3%, the fan will start working and compressor will start working after 3 seconds later.

When room humidity \leq setting humidity data -3%, the compressor will stop working and fan will stop working after 30 seconds later.

The fan speed setting function and humidity setting function is effective , you can set fan speed and humidity data under this mode

● **Continuously dehumidify mode:**

Under this mode, the machine will continuously dehumidify in high fan speed, The humidity setting function and fan speed setting function is ineffective . You can not set humidity data and fan speed under this mode.

● **Sleeping mode:**

Under this mode, the fan speed will automatically switch to low fan speed ,and after no operation for 10 seconds, besides sleeping mode indicator light , power button light and child lock button , other the indicator lights ,like water tank full alarming indicator and display screen will be off .

When room humidity $\leq 57\%RH$, the compressor will stop working and the fan will stop working after 30 seconds later

When room humidity $\geq 63\%RH$, the fan will start working and compressor will start working after 3 seconds later.

The fan speed setting function and humidity setting function is ineffective under this mode, you can not set humidity data and fan speed

Under sleeping mode, when the water tank is full , the machine will not alarm , but the water tank full indicator light will be on (red color) to remind you the water tank is full and you need to clean the water tank



TIMER button

Press timer button to timing the machine when to turn on or turn off for 1~12 hours. 1 hour for one step and press the button one time to plus 1 hour timing, the display screen will show the setting timing value . and if you want to cancel the timing function ,set the value to “00” .

When the machine is under running status, set timing data for when to turn off the machine;

When the machine is under stand by status, set timing data for when to turn on the machine.



Humidity setting button

Press humidity setting button to set the humidity data you want from 30% RH

to 80%RH , and 5%RH for one step. The humidity setting will cycle like below :
30%RH- 35%RH - 40%RH - 45%RH - 50%RH - 55%RH- 60%RH - 65%RH
-70%RH - 75%RH- 80%RH-30%RH

The humidity setting function is effective under Common mode, and ineffective under continuously dehumidify mode and sleeping mode . You can not set humidity data under continuously dehumidify mode and sleeping mode .

Long press humidity setting button for 3 seconds , the display screen will show the current room temperature.



Fan Speed button

The machine has two fan speed : High fan speed and low fan speed. Press this button to switch the fan speed between high fan speed and low fan speed , and then the corresponding indicator light will be on.

Fan speed setting function is just effective only under common mode ,and ineffective under continuously dehumidify mode and sleeping mode . You just can set fan speed under common mode.



Child-lock button

Long press the child-lock button for 3 seconds to turn on the child-lock function , the child- lock indicator light will be on ,and you can not operate any other button under child-lock status .

Press this button again for 3 seconds to turn off the child-lock function, the child-lock indicator light will be off

Three colors indication function

When the room humidity < 45%RH ,the indicator light will show blue color
When $45\%RH \leq$ room humidity $\leq 65\%RH$,the indicator light will show green color
When the room humidity > 65%RH, the indicator light will show red color

Water Tank Full Indicator

When the water tank is full for 5 seconds, the water tank indicator light will be on (turns red color) and the machine will buzze for 5 times to alarm to remind

you to clean the water tank

Clear the water tank full alarm

When the machine alarm for water tank full , press any button to stop the alarm. You can not operate the machine when machine alarm until you empty the water tank and return it back to right position of machine body

Information on the App **"Smart Life-Smart Living"**

The **"Smart Life-Smart Living"** app is available for android and iOS.

Scan the corresponding QR code to get directly to the download.

Note:

Depending on the provider, there may be costs involved in downloading the app.



Information on How to Use the App

This appliance allows you to operate the appliance via your home net-work. A prerequisite is a permanent Wi-Fi connection to your router and the free app **"Smart Life-Smart Living"**.

We recommend disconnecting the appliance from the power supply when you are away from home to prevent unintentional switching on while you are on the road!

System Requirement for Use of the App

iOs 8.0 or higher

Android 4.1 or higher

Commissioning via the App

1. Install the **"Smart Life-Smart Living"** app. Create a user account.
2. Activate the Wi-Fi function in the settings of your appliance.
3. Place the appliance at a distance of about 5 meters to your router.
4. Press and hold the Timer button for about 5 seconds. The Wi-Fi lamp will flash rapidly.
5. Launch the app and select "+".
6. Select the "Air Conditioner" menu and follow the instructions on the display.
7. Once the appliance has been successfully connected, the Wi-Fi lamp lights up. Now you

can operate the appliance using the app.

8. Press and hold the Timer button for about 5 seconds, the appliance disconnect, the Wi-Fi lamp lights off.

5.2 DRAINAGE

There are two ways of removal collected water produced by the machine

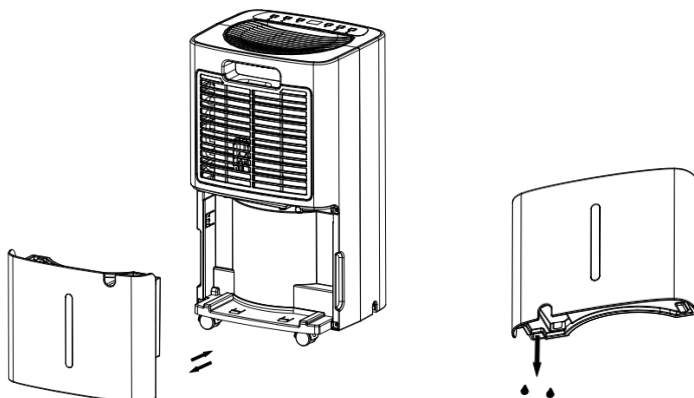
A. Manual drainage by water tank

B. Continuous drainage by connecting water hose to continuous drainage hole

5.2.1 EMPTYING THE WATER TANK

The machine will stop working when the water tank is full , and it will go on working again once you empty the water tank and return it to machine body properly

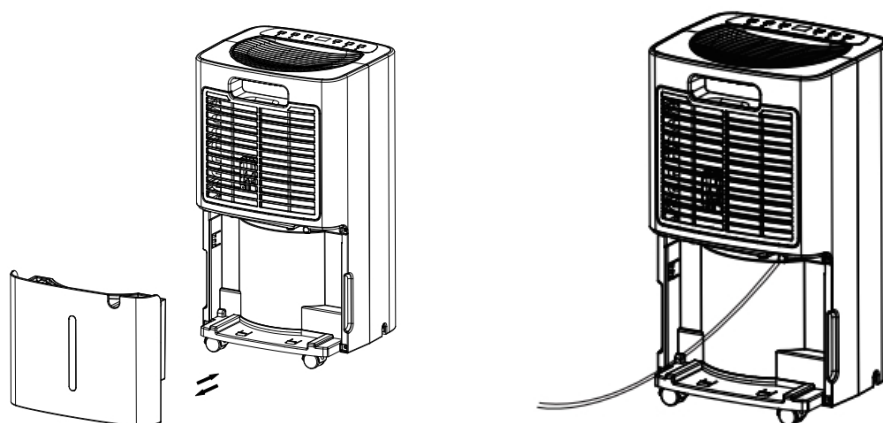
- When the water tank is full, The machine will make buzz sound, and the “Water tank Full” indicator light will be on.
- Press the POWER button to turn off the unit.
- Pull on the water tank and simply slide out of the body of the dehumidifier.
- Empty the water
- Clean the inside of the tank as well as the outside.
- Return the empty tank back into the machine body correctly
- Press the POWER button to resume operating.
- If the “Water tank Full “ indicator light does not extinguish,please check the water tank whether is returned to machine body correctly



5.2.2 CONTINUOUS DRAINAGE

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

- Set the unit in a horizontal surface and stable position.
- Switch off the unit before operating. Take out the water tank.



- Securely and properly connect the drain hose and make sure it is not kinked and clear of obstruction.
- Place the outlet of hose over a drain or bucket and ensure that water could freely flow out of the machine.

Do not submerge the end of hose into water; otherwise it can cause "Air Lock" in the hose, which may result to water leakage

To avoid water spillage:

- As the negative pressure of condensate drain pan is large, tilt the drain hose downward toward the floor. It is appropriate that the degree of inclination should exceed 20 degrees.

Straighten the hose to avoid a trap existing in the hose.

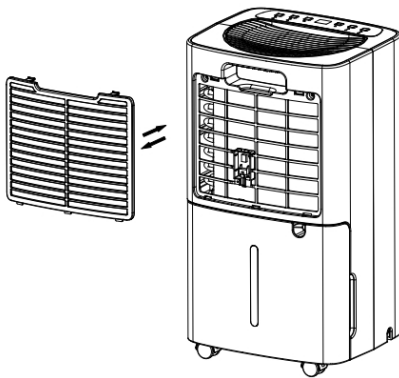
6. MAINTENANCE

- **CLEANING THE AIR FILTER**

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.

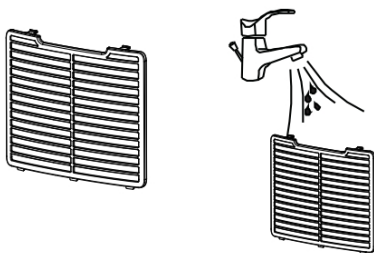
1.Remove the filter frame and take off the filter.



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.

Please notice the air filter is Nylon air filter , Additional active carbon filter can not be washable



3.Put the filter back.

7.TROUBLE SHOOTING

1. OPERATION TEMPERATURE

5°C ≤ Ambient Temp. ≤ 35°C

When the ambient temp is lower 5 °C or higher than 35°C, the dehumidifier will stop operation.

When 5°C ≤ Ambient temp. ≤ 18°C, the machine will automatically defrost ; during defrosting, the compressor will stop working and the fan keep 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
The machine doesn't work	Has the power cord been disconnected?	Plug the power cord correctly.
	Is the room humidity lower than the setting humidity data ?	Normal condition ,the machine will not work until the room humidity is higher than setting humidity data
	Is the compressor under 3 minutes delay start protection status ?	Normal condition , wait for 3 minutes until the compressor finish its delay start protection
	Is the water tank full indication light is on (red color)? (The water tank is full or not at the right position.)	Empty the water tank and then reposition to the machine body at right position
The machine doesn't dehumidify	Is the air filter clogged?	Clean the air filter
	Is the air inlet or air outlet obstructed?	Remove the obstruction from the air inlet or air outlet
No air is discharged from air outlet	Is the air filter clogged?	Clean the air filter
The machine is noisy when working	Is the unit placed oblique or unsteady?	Move the unit to a stable, sturdy location.
	Is the air filter clogged?	Clean the air filter
The screen show "E2"	Humidity and temperature sensor is damaged or affected with damp	Replace the sensor
the screen show "LO"	Room humidity is < 20%RH	Normal condition , it indicates the humidity is lower than 20%RH
the screen show "HI"	Room humidity is > 90%RH	Normal condition ,it indicates the humidity is higher than 90%RH
the screen show "CL"	Low temperature protection when room temperature is <5°C	Normal condition ,it indicates the temperature is lower than 5°C
the screen show "CH"	High temperature protection when room temperature is >35°C	Normal condition ,it indicates the temperature is higher than 35°C

8. DECOMMISSIONING

8.1 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 upright position when in storage.
7. Preserving the machine in ventilating, dry, non- corrosive gas and safe place indoor.

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.

8.2 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



Product Registration

Register your warranty online
within 30 days of purchase.

www.devola.co.uk/warranty



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