

# User Manual

for

## Dehumidifier

### SD-150

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Thanks for choosing our product and we highly recommend you to have a careful reading of the instructions before using the devices. It will provide you with necessary information for proper use and maintenance.

Pictures inside are for reference only, details shall be in accordant with final product.

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# 1. Important Notice

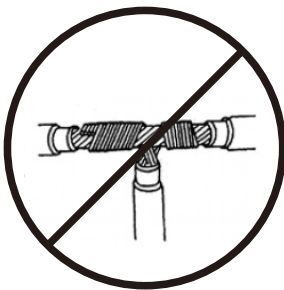
- 1、 Always keep the devices in the vertical position, on the flat surface and certainly at all times.
- 2、 Make sure the minimum of 300mm between the edges of equipment and any flammable materials.
- 3、 Don't hide the air suction inlet and radiator grille from the device.
- 4、 For indoor use only.
- 5、 Not suitable for use in cabinet, closet, boats, caravans or similar locations.
- 6、 Leave the unit to stand for one hour before connecting to the mains supply after transport or when it has been tilted (e.g. during cleaning).
- 7、 The mains supply must conform to the specification shown on the rating plate at the back of the unit.
- 8、 Avoid overloading circuits, which is caused by using more electrical amps than your wiring can support. Overloading electrical wires can cause excessive heat and electrical fires.
- 9、 Avoid being abandoned.
- 10、 Check the power cord carefully. Make sure that it is not punctured or frayed. Inspect the plug to ensure that the prongs are secure and the plastic surrounding it is not cracked.
- 11、 Do not suddenly unplug the power plug while the machine is operating. Before turning on or off the machine must use switch on the control panel.
- 12、 Before moving the unit, turn off all controls, then unplug and empty the water tank.
- 13、 Don't use bug sprays or other flammable cleaners on the unit.
- 14、 Never pour or spray water over the unit.
- 15、 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.
- 16、 Only a licensed professional is allowed to dismantle or modify the appliance.
- 17、 Suggested to send the appliance for professional maintenance periodically.

## 1.2 MATTERS NEED ATTENTION

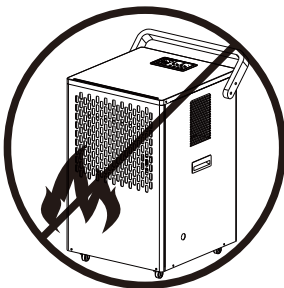
This section describes important aspects of safety matters to prevent personal injury or property damage to users and others. Please read the text on the basis of fully understanding the following contents (logo, icon), and be sure to follow the safety precautions listed.



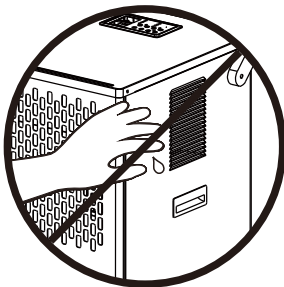
When cleaning, be sure to stop the operation and turn off the power switch.  
The internal rotor rotates at high speed and may cause injury. Prevent accidental electric leakage and cause electric shock.  
Please clean the air filter frequently  
Contamination of the air filter screen may result in reduced dehumidification, reduced comfort and increased power consumption.



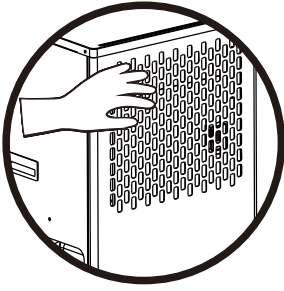
It is forbidden to replace the power cord without authorization, or connect the power cable in the middle and other appliances in parallel.  
Unauthorized replacement, mid-way connection, overload use may cause electric shock or fire. If the power cord is damaged, please entrust your local dealer or service outlet for repair.  
Unauthorized disassembly, modification, repair or cleaning of internal components is prohibited.



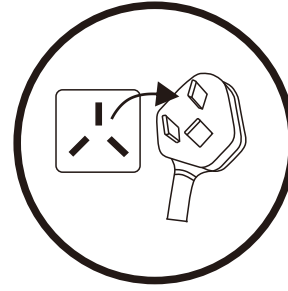
It is forbidden to store flammable and explosive gases in the place where the dehumidifier is used.  
Leaks of flammable and explosive gases collect around the components and may cause accidental ignition.  
Do not place the dehumidifier near a heat source as this may cause deformation or fire.



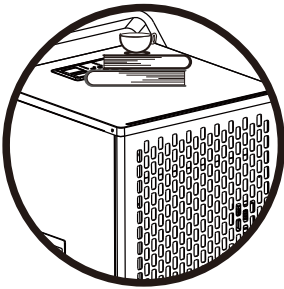
Do not operate the dehumidifier with wet hands.  
Contact with water inside the dehumidifier may cause leakage, and wet operation may cause electric shock.  
Do not flush the dehumidifier directly with water. Do not place the dehumidifier near water, as this may cause water to splash into the machine, causing leakage or short circuits.



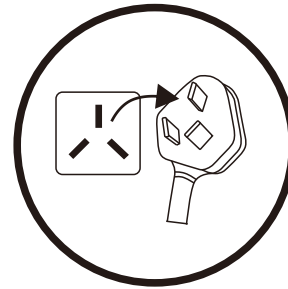
Do not put your hand into the air inlet, do not climb or sit on the dehumidifier. This can cause the device to deform or cause a fire.



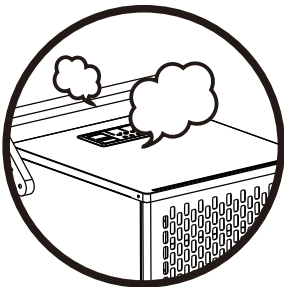
In thunderstorms, the power must be disconnected. Failure to disconnect the power supply may result in lightning strikes and damage to the dehumidifier.



Place the dehumidifier on a stable level surface. If the ground is not flat, it may affect the use of the dehumidifier. Never throw or place anything inside the dehumidifier.



Do not turn off the dehumidifier directly with the power switch. Turning off the dehumidifier with the power switch may result in electric shock, fire, etc. Always use the control panel to stop the dehumidifier operation. Turn off the power switch when not in use for a long time. Dust accumulation may cause leakage, loss, heat, fire, etc. Turn off the power to avoid lightning strikes.



When an abnormal phenomenon (such as a burnt smell) occurs, the operation must be stopped and the power supply turned off. Continued use may result in malfunction, electric shock or fire. Please entrust your local dealer or service outlet for repairs.

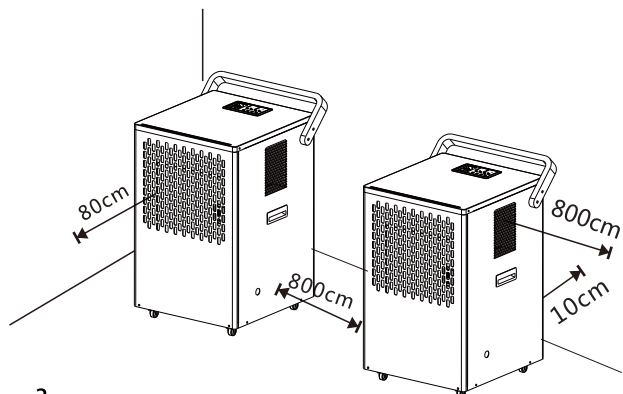
**When the dehumidifier is working, ensure that:**

Minimum distance between air inlet surface and wall 80cm

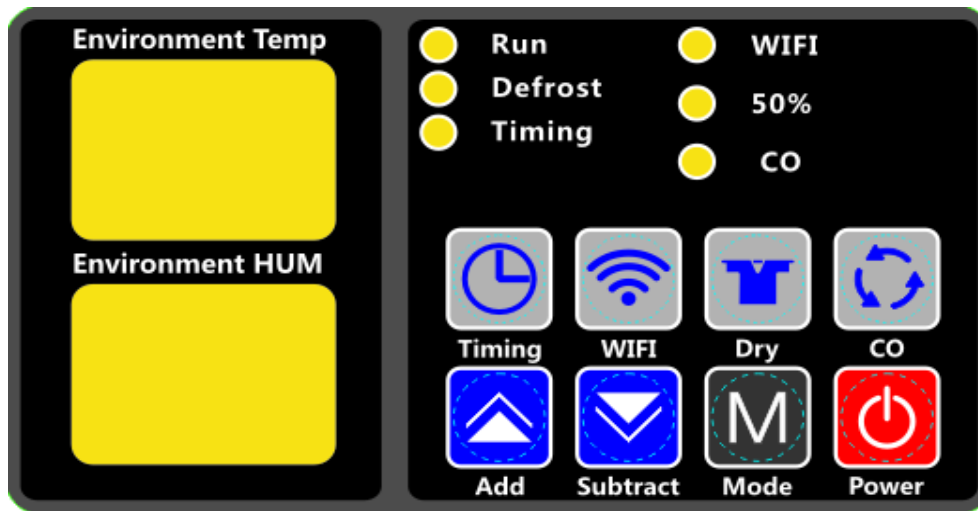
Minimum distance between two adjacent machines 800cm

Minimum distance between rear side and wall 10cm

Minimum distance between air outlet surface and wall 800cm



## 2. Function of the Button

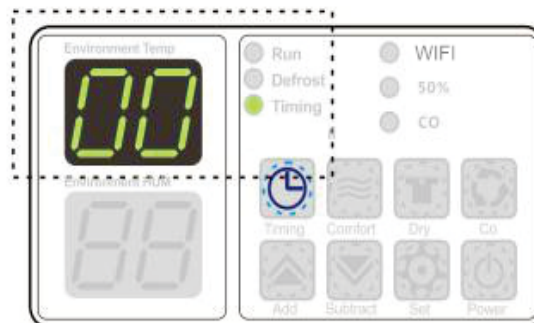


### 2.1 Operation

#### Timing Mode



Press "timing",  
Machine will beep.



Indicates light on. The set value will flicking.  
(It will stop flicking and back to ambient humidification  
after stop operation for 6secs)



When Power on,  
timing set for switch off;  
When Power off,  
timing set for switch on.

#### WIFI Mode



Press "WIFI"  
Machine will beep.



Enter the WIFI Mode.  
Indicates(WIFI) light on.



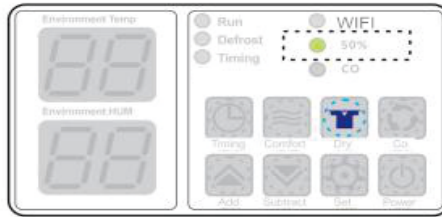
In some countries, the WIFI function  
is not yet available.

If the network distribution is successful,  
the indicator light will steady on.

## Dry Mode



Press "Dry"  
Machine will beep.



Enter the Dry Mode.  
Indicates(50%) light on.



1. When you press "Add" or "Subtract", it will switch to normal mode.
2. You can press other Mode instead, like Comfort Mode, CO Mode.....

## CO Mode



Press "CO"  
Machine will beep.



Enter the Dry Mode.  
Indicates(CO) light on.

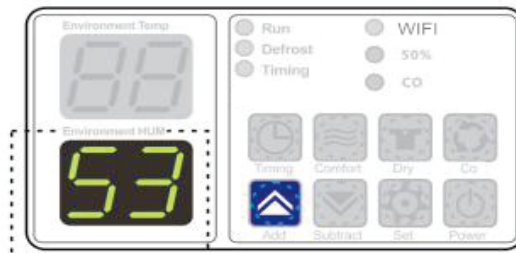


1. When you press "Add" or "Subtract", it will switch to normal mode.
2. You can press other Mode instead, like Comfort Mode, CO Mode.....

## Add Mode



Press "Add",  
Machine will beep  
The set value increase 1%RH

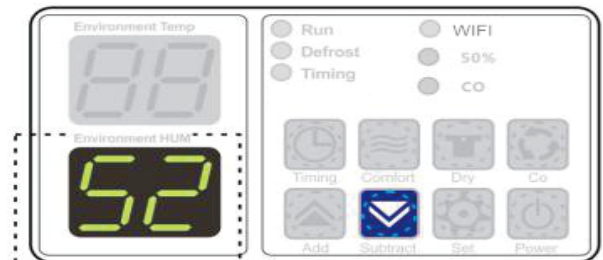


The set value will flicking It will stop flicking and back to ambient humidication after stop operation for 6secs

## Subtract Mode



Press "Subtract",  
Machine achine will beep  
The set value decrease 1

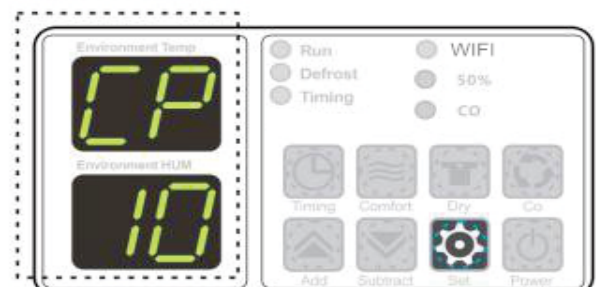


The set value will flicking It will stop flicking and back to ambient humidication after stop operation for 6secs

## Set Mode



Press "Set " for 10 seconds,  
Enter to the  
Internal parameter modification mode



Display shows the setting rate

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## Features

1. If the set humidity is higher than the ambient humidity, the dehumidifier will enter the "wet control state" and will not run.
2. When entered dehumidification mode, the fan is turned on for 5 seconds to start the compressor; when the dehumidifier stops working, it will first turn off the compressor, then turn off the fan after 30 seconds;
3. After the compressor is turned off, it takes 3 minutes to restart. When the compressor is running for 72 hours, the system will automatically resume after 30 minutes of forced stop.
4. When running at a lower temperature, the machine will automatically detect the system temperature. When reached the defrosting temperature, it will automatically stop and defrosting. The "snow pattern" will light up and the "defrosting pattern" will shine. After the defrosting, the dehumidifier starts automatically.
5. Humidity control operating range: 10%~90%.
6. If the dehumidifier is not used for a long time, remove the power cord or power off.
7. The function of the memory system, the function can function before the power is turned off in 72 hours after the power is lost. (Note: When you leave the humidifier, please turn off the source)

## 3. Operating Instructions

When the substrate is powered on for the first time, the substrate enters the standby state, press the power button and set the required humidity 3% less than the current humidity to enter the running state, If the setting humidity is higher than ambient humidity, the dehumidifier will not work.

### 3.1 Dehumidifying Running

1. When the compressor has passed the protection for 3 minutes and the indoor humidity  $\geq$  set humidity +3% RH, the compressor will work again.
2. When the indoor humidity < set humidity -2% RH, the compressor is turned off.



3. Set humidity  $-3\% \text{ RH} < \text{indoor humidity} < \text{set humidity} + 3\% \text{ RH}$  to keep the original compressor working
4. The compressor stops the fan if it has not been operated for 3 minutes after the humidity has dropped.

#### 5. Defrost

A) After the machine starts to run for 30 minutes, the copper head coil sensor starts to detect the tube temperature. When the tube temperature is  $\leq -1^{\circ}\text{C}$  (there is 3 seconds of detection time), the compressor stops and the fan runs, and the defrosting operation starts. The lights are shining.

B) When the temperature sensor detects that the evaporator coil temperature is greater than or equal to 5 degrees and the detection is greater than or equal to 5 degrees for 3 minutes, the defrosting is exited

## 3.2 Drain Indicator

### Continuous Drain

This product has a continuous drain hole that is connected by a plastic tube (12mm for inside diameter) through which water can be drained. When using a water pipe, do not immerse the water outlet in the water to prevent the pipe from being too long or the pressure is formed in the pipe when the water outlet is blocked. The water flow is not smooth, resulting in water leakage.

First, insert the drainage hose into the drainage port on the side of the water tank, and then put the water tank back into the dehumidifier. Note that the outlet of the water pipe should extend out from the drainage hole of the dehumidifier.

Inspection and Maintenance		
Parts	1~3 months	12 months
Filter	Clean the filter	
Compressor	Check if the compressor is normal and the vibration is normal.	Check the compressor cable for signs of looseness, aging, and damage.
Heat Exchanger	Clean the duct and sundries.	
Seal	Check for signs of damage or displacement. If it is worn or damaged, it should be replaced in time.	Check for signs of damage or displacement. If it is worn or damaged, it should be replaced in time.
Temp. Control		Check if all external temperature and humidity probes are working properly.

## 4. Device Installation

The dehumidifier can be installed in many occasions and customized according to the needs of user.

### Electrical Connection

1. The dehumidifier cannot be operated at voltages and frequencies outside the manufacturing range.
2. Before switching on the main power supply, the AC power should be checked to ensure that the supplied voltage fluctuation range does not exceed  $\pm 10\%$  of the voltage and frequency indicated by the equipment. This check is especially important for voltage fluctuations that can occur in high load situations.
3. The dehumidifier must be grounded and a power disconnect switch set to ensure that the unit is powered off during inspection and service.
4. The fuse current of the power supply fuse is 1.5 to 2 times the rated current of the installed dehumidifier. The fuse should be installed in the dehumidifier attachment. The power supply cable and main fuse are optional to handle the correct operating power of the dehumidifier. Fuse rating: 10A 250V, 16A 250V.
5. If the power cord is damaged, it must be replaced by the manufacturer or a professional authorized person in order to avoid danger.

## 5. Specification

Model	SD-150
Application Area	150-300M <sup>2</sup>
Dehumidifying Capacity	120L/D(30 <sup>°</sup> C,80%RH)
	150L/D(35 <sup>°</sup> C,90%RH)
Operating Power	1685W
Refrigerant	R410A
Compressor	GMCC
Voltage	220VAC
Frequency	50HZ
operating Temp.	5-38 <sup>°</sup> C
Drainage	Direct Drainage
Dimensions	476*433*768mm
Net Weight	49.5KGS

## 6. Error CodeExplanation

Fault Code	Thefailure	Howtodowith it?
<b>E1</b>	Temperature sensor breakdown	<b>To</b> replacewithnewtemperature <b>sensor.</b>
<b>E2</b>	Humidity sensor breakdown	<b>To</b> replacewithnewhumiditysensor.
<b>E4</b>	Full water tank	Pouroutthe water/Putthewatertankinto thecorrect position

## 7. Troubleshooting

Please do not worry if you meet following problems in the use of dehumidifier. When confirmed as failure, timely contact for repairing.

Problems	Phenomenon/Reason	Solutions
Dehumidifier does not work.	<ol style="list-style-type: none"> <li>1. Could be a power outage.</li> <li>2. The power switch is not on.</li> <li>3. Maybe the fuse has blown out.</li> <li>4. It's not the definite starting up time.</li> </ol>	<ol style="list-style-type: none"> <li>1. Please wait for power supply.</li> <li>2. Turn on the power switch.</li> <li>3. Change the fuse.</li> <li>4. Wait or cancel the time setting.</li> </ol>
Unsatisfied dehumidification effect.	<ol style="list-style-type: none"> <li>1. Humidity setting is inappropriate.</li> <li>2. The front and back may be blocked.</li> <li>3. Dehumidification time isn't enough.</li> <li>4. Door and window may be open.</li> <li>5. Temperature &lt;math&gt;5^{\circ}\text{C}&lt;/math&gt; or &gt;math&gt;38^{\circ}\text{C}&lt;/math&gt;.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set appropriate humidity.</li> <li>2. Clear the obstructions.</li> <li>3. Keep waiting.</li> <li>4. Close door and window.</li> <li>5. Be sure temperature is 5-38 <math>^{\circ}\text{C}</math>.</li> </ol>
Turn on immediately after shutdown, it doesn't work	3 minutes delay of compressor protection.	The machine will work after 3 minutes.
Water leakage	<ol style="list-style-type: none"> <li>1. Drain connection is slack.</li> <li>2. The drainage system is blocked</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the drain.</li> <li>2. Clean the stopper.</li> </ol>
Frost formation.	There is frost on the surface of dehumidifier.	It's normal, the machine can defrost automatically.
The dehumidifier has a slight wobble.	A slight wobble occurs when turn on/off dehumidifier.	It's normal phenomenon.