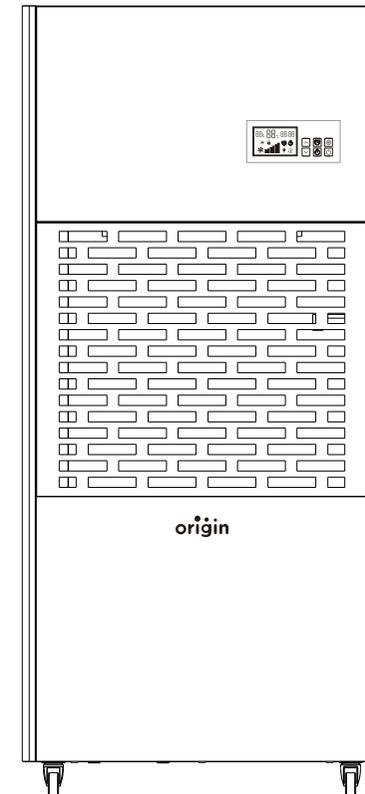


origin

INDUSTRIAL DEHUMIDIFIER MODEL: O¹⁸⁰



Origin Corporate Services Pvt Ltd.

Address: 906, Dalamal Tower, Nariman Point, Mumbai - 400 021.

Tel : +91 915 200 49 49 | +91 22 49267267 | +91 22 49267201

Web Site : www.origincorp.com | Email : response@origincorp.com

Thanks for choosing Origin de-humidifiers. 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.

6. Trouble Shooting

Situation	Reason		Treatment method
Unit does not operate	No power supply displays out	Plug has not been put into the socket	Put the plug into socket
		No power supply	Recover power supply
		Fuse of control panel is burned out	Change new fuse
		Transformer of control panel is damaged	Change transformer
	Power supply displays out	Environment humidity is lower than target humidity	Set the humidity again
		Power socket is missing null line	Add null line
Voltage of power is low		Recover right voltage	
E1	Temperature sensor error		Change temperature sensor
E2	Humidity sensor error		Change humidity sensor
E3	Motor is abnormally working	Capacitance is damaged	Change capacitance
		Shaft is stuck	Change motor
		Inside loop is damaged	Change motor
	Compressor is abnormally working	Capacitance of compressor is damaged	Change capacitance
		Piston of compressor is stuck	Change compressor
		Inside loop is damaged	Change compressor
Lack of refrigerant		Check the point of leakage, recover it. Create a vacuum again, add refrigerant	
E4	Phase sequence error (an error in connection of the fire wires)		Firstly, disconnect the power supply, then exchange the positions of any two fire wires numbered "U", "V", "W"
	Lack of phase		Connect the lacking one or two phases of fire wires
Effect of dehumidification is not satisfying	Filter is blocked		Clean the filter
	There is barrier at intake or outlet holl		Wipe up the barrier
	The door or windows are open		Close door and windows
Noise	The position of machine is uneven		Put the machine on a steady place
	Filter is blocked		Clean the filter
Water leaked	The machine is oblique		Put the machine on a steady place
	Water pipe is blocked		Remove the front panel, clean the sundries

- 1.If the unit still can't operate correctly after the above checks, please contact local distributor. Forbid to disassemble or repair the unit without approval.
- 2.When the machine is running or stops running, you will hear a sound of refrigerant cycle, this is a normal phenomenon.

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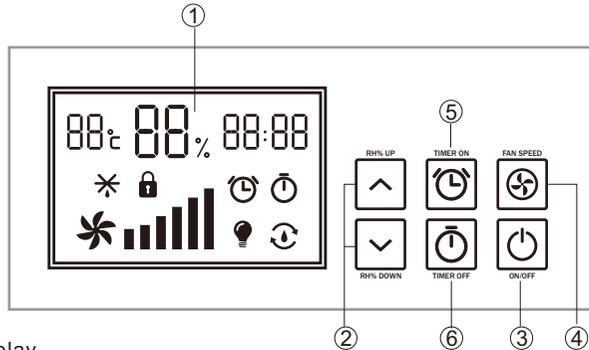
1. Product Introduction

The O series dehumidifier is built particularly for air drying in closed rooms. The dehumidifier can prevent the formation of condensation, eliminate too high air humidity and hold a specific air humidity constantly. The time which the dryer requires in order to achieve a specific humidity depends essentially on the environmental conditions. The attainable humidity value is equally dependent on the environmental conditions.

The O series dehumidifier works according to the condensation principle with heat recovery. The fan (shown indicatively below) sucks the moist air through a cool register (evaporator). The air becomes chilled under the point of condensation here, that the moist air condenses as water and flows into the water tank. The chilled and dried air is warmed up at the condenser again. Through the heat pump effect, the outlet air is warmer than the sucked room air. The absolute moisture of air is lowered continuously by the continuous circulation of the room air through the device. The surplus moisture is removed safely and efficiently.

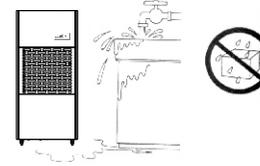
2. Operation Instructions

2.1 Operation Panel:

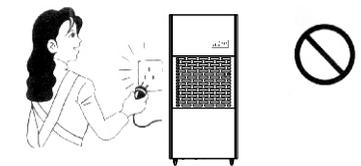


- ① FND display
- ② “^” up and “v” down
 - a. used to set the target humidity, the value will rise or drop 1% by each pressing down. from CO-30%-31%-32%-----80%-CO
 - b. used to set the current time and target timer on/off, the value will rise or drop 1 hour or 1 minute by each pressing down. from 00:00-23:59
 - c. used to set the lock key by pressing “^” and “v” keys at the same time for 2s.
- ③ “⏻” ON/OFF: press once to turn the unit ON or OFF.
- ④ “🌀” key: used to change the fan speed between high fan and low fan.
- ⑤ “🕒” key: used to set the timer on and time.
- ⑥ “🕒” key: used to set the timer off.

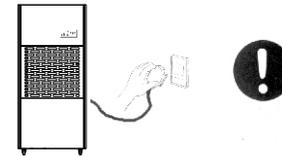
Do not use this appliance in the place where may have water.



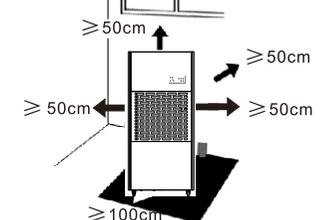
Turn off the unit before disconnecting the power supply.



Turn off the unit and cut off the power if any accident happens.



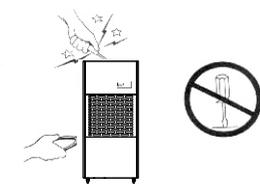
The suitable place.



Turn off the unit and cut off the power before cleaning.



Do not repair and disassemble this appliance by yourself.



5. Technical Specifications

Model	O180
Moisture Removal Capacity	180L/day(30°C RH80%)
	96L/day(27°C RH60%)
Power Supply	220-240V~ 50Hz
Rated Power	2400W
Rated Current	11A
Refrigerant	R410A/1.5kg
Operating Temperature	5~35°C
Net Weight	120kg
Product Size	30 × 19 × 64 in

3.2 Protection of Phase Sequence:

When the power is on, if there is a phase sequence error or phase failure, all indicators except time indicator will not light, the display shows "E4", and the unit can not be switched on normally.

3.3 Memory Function:

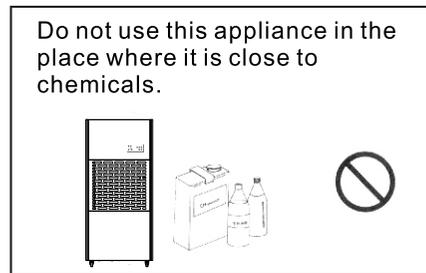
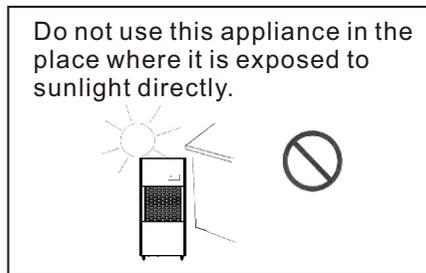
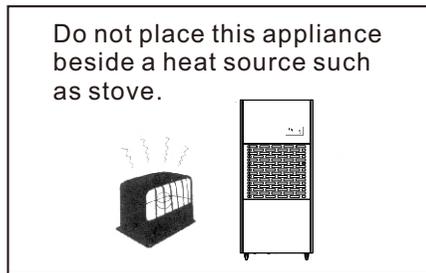
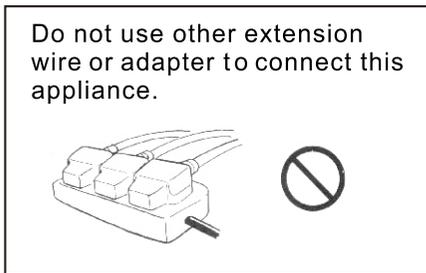
When switched on or the power is reset, the unit can automatically recover to its previous status.

Note: After power failure, the working mode, target humidity, fan speed, timer setting and lock key setting all keep its previous status.

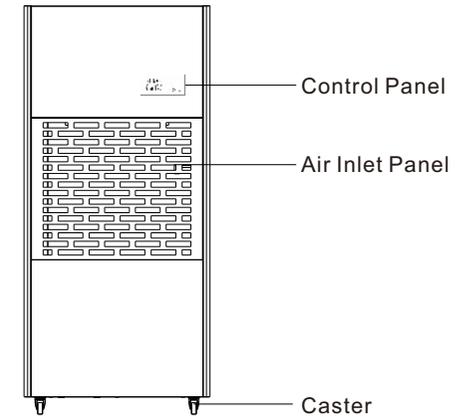
3.4 Lock Key Function:

Lock key program is designed for this unit, press “^” and “v” at the same time for 2s, lock key “🔒” indicator lights, all keys on panel will be locked. To release the lock you just need to repeat the previous operation again.

4. Safety Instructions



2.2 Components



2.3 Procedures of Basic Operation

1. O¹⁸⁰ uses an external power supply of 220V/50Hz (needs to connect null line and also the ground). Connect the fire wires with three wires numbered “U”, “V”, “W”, and the wire mark of “⊕” to the ground. (the unit should have an air switch of 20A to achieve an independent control).
2. Power on, with a buzzer sound, and running “💡” indicator flashes.
Note: Switch on the unit, if the screen shows “E4”, disconnect the power and exchange the positions of any two fire wires of “U, V, W”.
3. Press power “🔌” button, running “💡” indicator keeps light, the screen shows the current relative humidity.
4. Continuous dehumidification:
Press “^” and “v” key to choose “CO” (under 30%), CO “🔄” icon lights; the unit keeps dehumidifying continuously.

2.4. Timer:

2.4.1 Timer On:

Press timer on “⏻” key, hour “00:” icon and timer on “⏻” icon will flash. After start-up, the original value is 00:00, press “^” or “v” key to set the target hours, it ranges from 00 to 23 hours, if no further operation within 5s, hour setting succeeds and then minute “00:” icon and timer on “⏻” icon will flash. Repeat the same operation to set the target minutes, it ranges from 00 to 59 minutes.

2.4.2 Timer Off:

Press timer off “⏻” key, and the same operation as timer on setting to complete the timer off setting.

Note:

a: After the timer on / off setting succeeds, press timer on / off key once to check the setting timer, press again to cancel timer on / off setting within 5s. If only press once and no further operation within 5s, the display recovers to the current time.

b: Timer on / off setting can be set when the unit is on or off.

c: If you turn on / off the unit before setting timer on / off reached, then the timer setting will be canceled.

2.4.3 Cycle Timing:

When the timer on and timer off set at the same time, the unit will start up and shut down automatically every day when setting time is reached.

Note: Press timer off “⏻” key for 2s to cancel the cycle timing setting.

2.5 Time:

Press timer on “⏻” key for 2s to activate the time setting, the same operation as the timer setting to set the time.

2.6 Fan Speed:

Press fan speed “⊕” button to change the fan speed between high fan and low fan.

2.7 Automatic Defrosting:

When the unit has started for a long time at a low temperature, moisture in the air would condense into frost which will adhere in the evaporator, so it will reduce the dehumidification effect; In order to effectively solve the problem, automatic defrosting according to the temperature set in the unit. When the unit defrosts, the compressor stops running, the fan motor runs at high fan, and defrost “✱” indicator lights.

2.8 Compressor Delay Protection

In order to ensure the appliance to normally operate for a long time in a safe condition, the compressor 3 minutes delay protection function is designed for this unit to ensure that the time between operating and stopping of the compressor is not less than 3 minutes.

3. Service & Maintenance

3.1 Error Code Display

Displayed Code	E1	E2	E3
Error	Temperature Sensor Error	Humidity Sensor Error	Abnormal Dehumidifying Error
Display	Flash “E1” every 30s for 2s	Flash “E2” every 30s for 2s	Slowly flash “E3”
Working State	The unit keeps running at previous humidity setting status, defrosting mode changes into timing defrosting.	The unit keeps running at continuous dehumidifying status.	The unit automatically judges that the refrigeration effect is poor and cannot normally dehumidify, the unit will stop working.