

# INSTRUCTION MANUAL



**350PPD Commercial dehumidifier**

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# Thank you for using dehumidifier

- ❖ This manual is important, you should read it before using the dehumidifier, so you will know how to use the machine and let the machine more excellent.
- ❖ This machine use single phase 220v/60Hz voltage
- ❖ Please do not put the machine outdoor so that you can avoid abnormal operation.
- ❖ To avoid any damage to the machine, please do not repair the dehumidifier or dismantle parts from the machine by yourself.
- ❖ Please put the machine in a good place and do not damage the power line.
- ❖ Please do not put heavy stuff upon the machine or throw anything into the machine.
- ❖ Use the switching push-button to start the machine, do not use the plug as a switching.
- ❖ To avoid more noise, please put the machine in a flat place.
- ❖ To keep ventilated and avoid touching anything else, there should be more than 50cm interspaces all around the machine.

## 1. Technical parameters

<b>Commercial dehumidifier</b>	
<b>Model</b>	TCA-350D
<b>Dehumidify Capacity</b>	350PPD
<b>Power Supply</b>	AC208V-240V/60HZ
<b>Rated power Consumption</b>	1800W
<b>Max power Consumption</b>	1970W
<b>Rated Current</b>	8.2A
<b>Condensate water pipe diameter</b>	3/8 Tube
<b>Fan type</b>	Centrifugal Fan
<b>Air Circulation</b>	590CFM
<b>Working Temp.</b>	40-105F
<b>Refrigerant</b>	R32
<b>Net weight</b>	108LBS

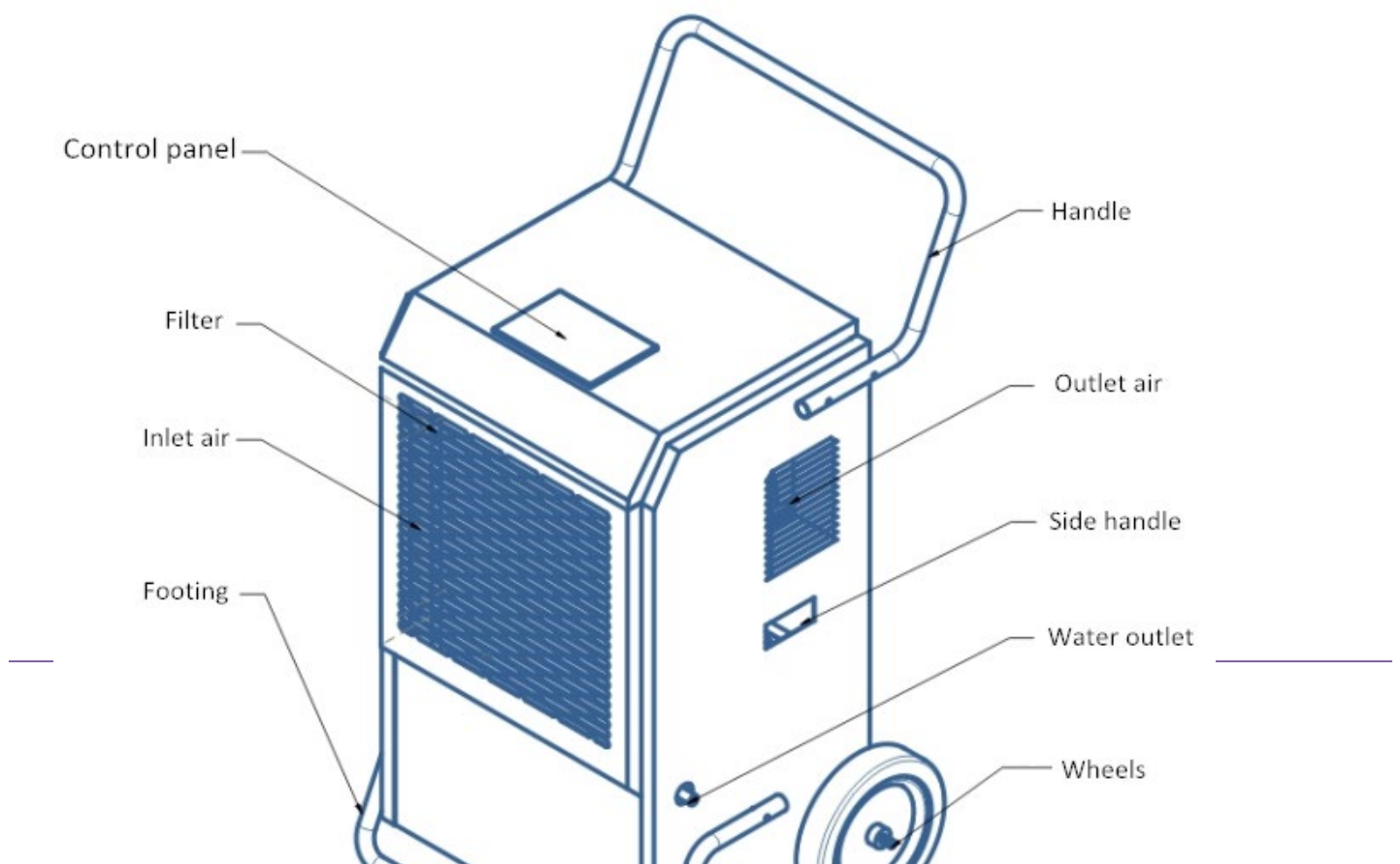
## 2. Applied range

- \* Storeroom, like precious machines, instruments, computers Bank, library, museum, garment company and carport.
- \* In rainy day, it can keep your room dry and comfortable, avoid mildewing your furniture, carpet or clothes.
- \* No matter what makes your room moist, use this machine can makes you comfortable.
- \* This machine does not have explosion-proof function so can not use in inflammable and explosive gas dust or chemical products.

## 3. How to use this machine more efficient

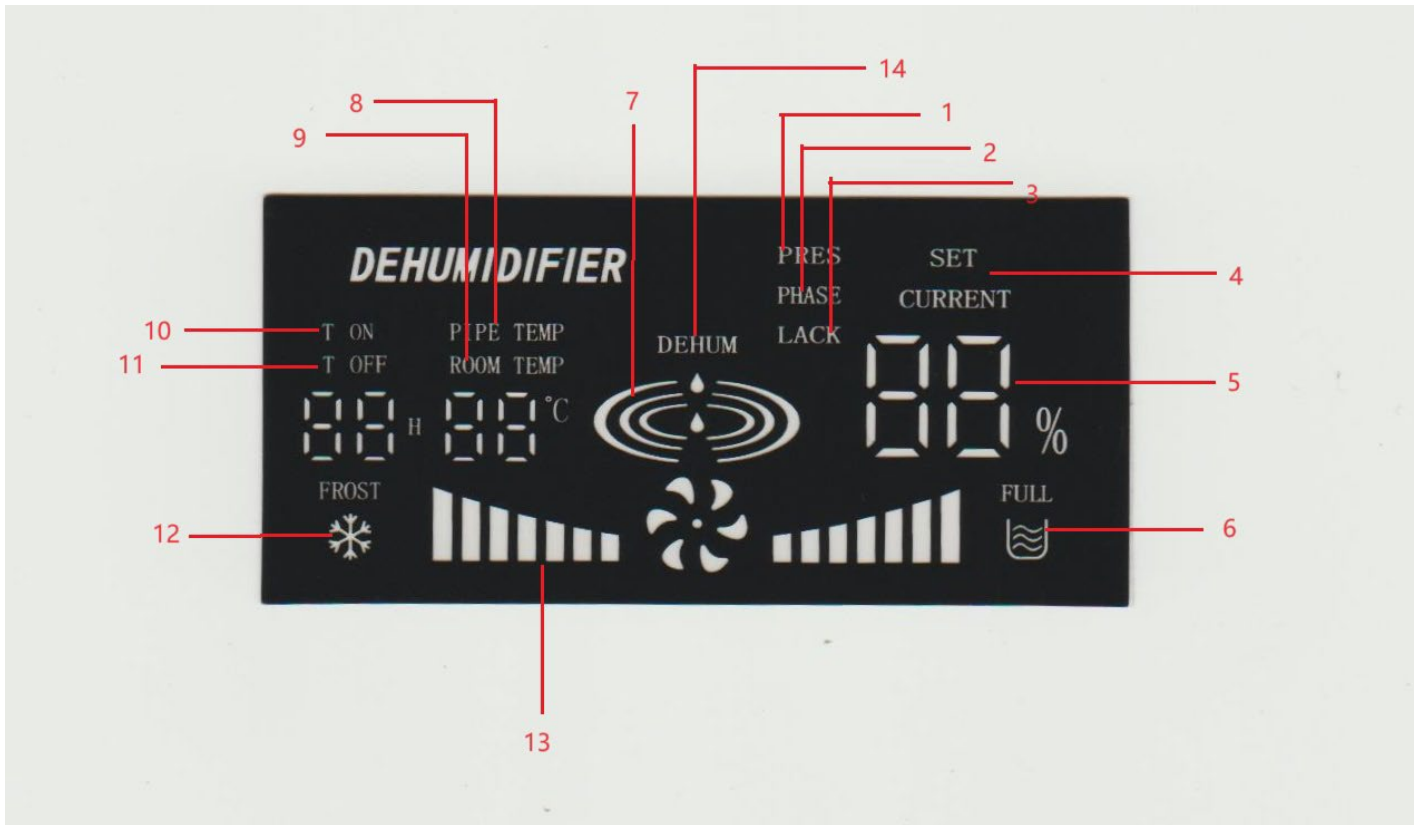
- \* To achieve optimum results, you must put it in a room that all the windows are closed, Otherwise, do not open the window, the convection of high humidity air and low humidity air will bring in lots of moist air, so no matter how efficient this machine is, this room will not dry enough.
- \* If there is too much dust on the strainer, it will affect this machine's function. So you should clean the strainer frequently.
- \* please do not set the dehumidifier in a place with poor ventilation. If this machine's moisture removal amount gets lower, which means the humidity in this room has been reduced.

## 4. Parts and function



## 5. Control Panel










1. PRES Pressure protection(only show in 3 phase voltage)
2. PHASE Phase mistake(only show in 3 phase voltage)
3. LACK Lack phase(only show in 3 phase voltage)
4. SET CURRENT set humidity you want
5. Current humidity display
6. Water full alarm
7. If this cycle flashing that means the machine in dehumidification state
8. PIPE TEMP. The temperature for evaporator copper tube
9. ROOM TEMP. The current room temperature
10. T ON timer ON
11. T OFF timer OFF
12. FROST in defrost state
13. Fan speed
14. DEHUM if this flashing means in standby state have not dehumidification only fan working

PS:  
 The factory setting humidity is 10%RH  
 The humidity value is set to 10% in automatic mode  
 Press and hold the auto and + buttons to check the coil temperature. When the difference between the coil temperature and the current temperature value is less than 7, it means that the refrigeration system is abnormal  
 Press and hold the setting button once to adjust the defrost time 8-15 minutes (the default defrost time is generally 8 minutes. When the temperature is low and the evaporator surface is not completely defrosted, it can be adjusted to 15 minutes)  
 Press and hold the setting button twice to adjust the temperature error value by  $\pm 8$  degrees (when the temperature displayed on the screen is different from the temperature displayed by your precision

temperature and humidity sensor, the error value can be adjusted)

Press and hold the setting button three times to adjust the humidity error value by  $\pm 8\%$  (when the humidity displayed on the screen is different from the humidity displayed by your precision temperature and humidity sensor, the error value can be adjusted)

## 5.1 Function keys and Indicators

1.	POWER button	Press once to switch unit on or off.
2.	SET button	Press to enable or disable the timer function.
3.	Setting button(ADD)	Adjust the humidity set-point within the range of 10%-95%. Adjust the timer set-point. (1h~24h)
4.	Setting button(MINUS)	
5.	AUTO button	Press  to set the unit for continuous dehumidifying mode.
6.	Tank full LED	 Lights up when water tank is almost full.
7.	Timer indicator LED	 Lights up when the timer function is set.
8.	Defrost LED	 Lights up when automatic defrosting is in process.
9.	AUTO	when the continuous dehumidifying mode is turned on you can press the ADD and MINUS button but it can not change the humidity data.
10.	Inside dry	When you OFF the machine, press  this button the machine will dry inside.
11.	Digital Display	Displays the current humidity (10-95%) and the humidity setting (10-95%). Displays timer setting and temperature.

## 5.2 Settings

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1. **Operation mode**

**A. Continuous Operation**

Press **POWER** key to turn on the unit.

The unit starts to dehumidify in continuous operation, regardless of the humidity. The humidity set-point cannot be adjusted in this mode.

**B. Normal Operation**

Press **POWER** key to turn on the unit.

Press the **AUTO** key to deactivate the continuous mode.

The unit operates in normal mode with the default 50% humidity set-point.

Press **POWER** key again to turn off the dehumidifier.

The fan keeps running for a while and then stops.

2. **Set Humidity (setting range: 10%-95%):**

The humidity set-point can be adjusted in **normal operation**.

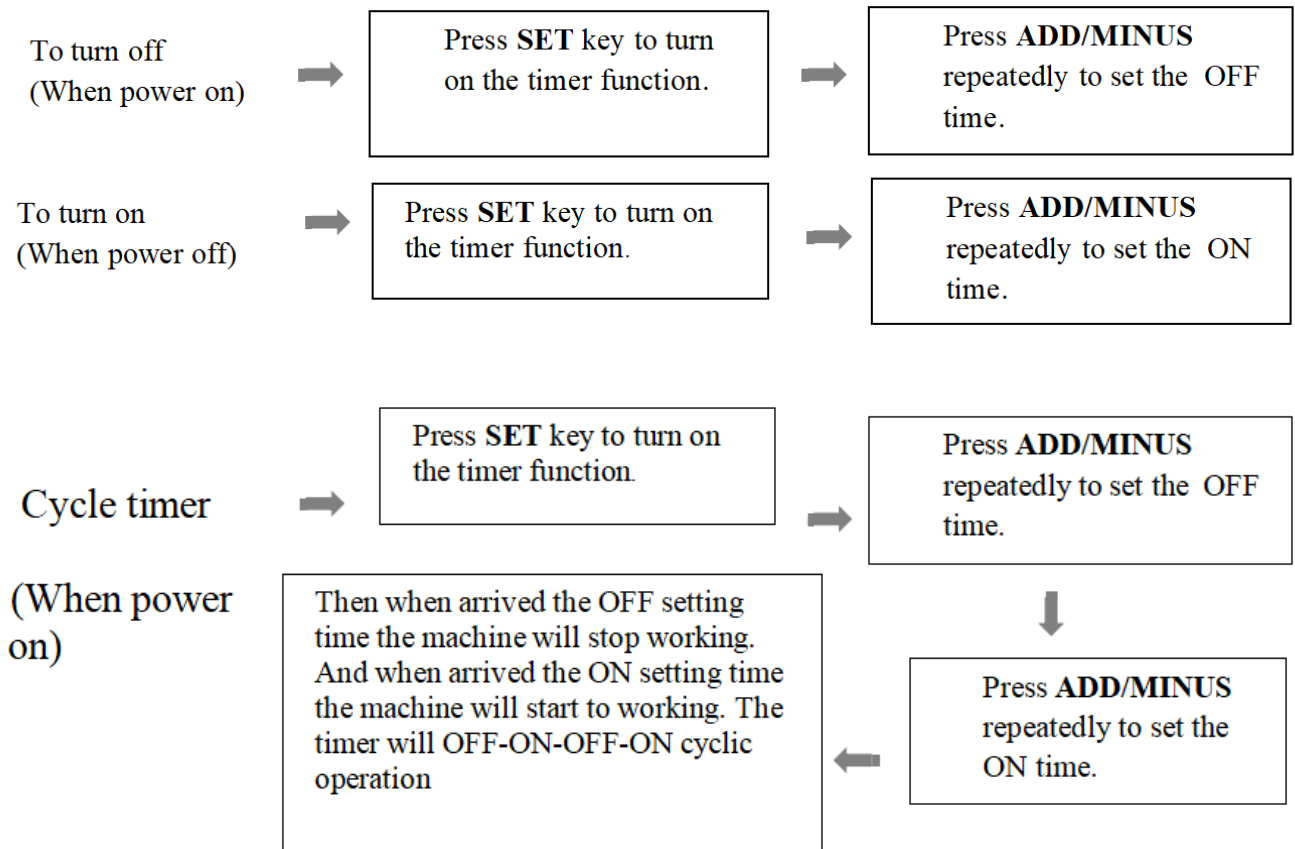
Press **ADD/MINUS** key repeatedly to adjust humidity set-point.

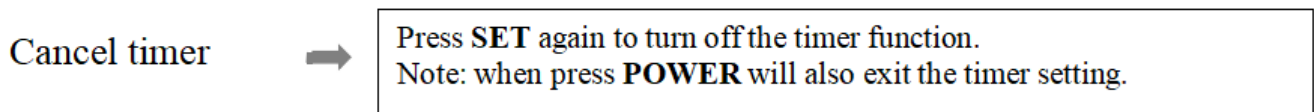
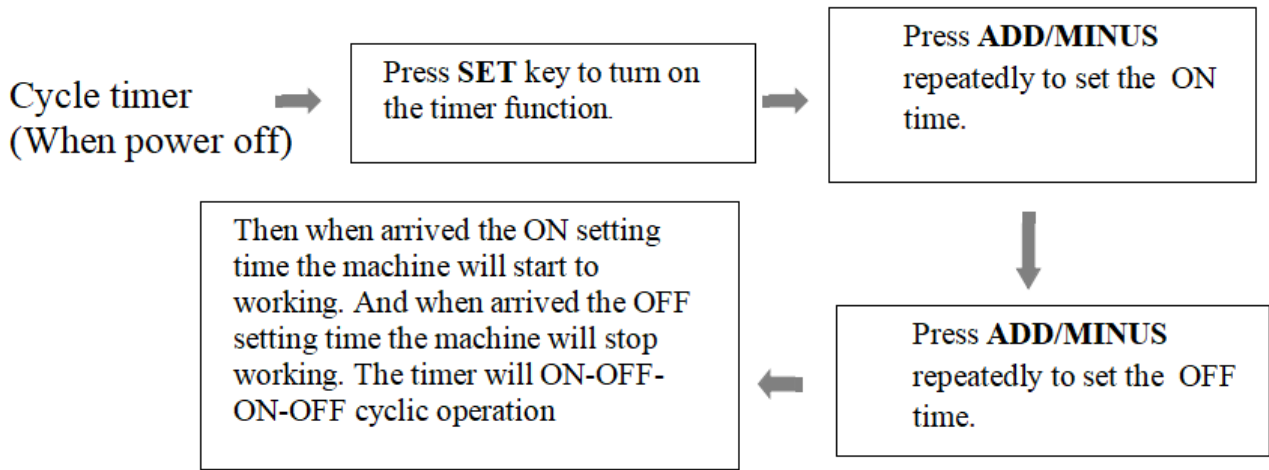
Set the humidity level between 40% and 60% for comfort.

The unit will cycle on and off to maintain the level.

3. **Timer Setting (1hour-24hours) : Press SET key to set the timer**

The timer has two ways of operation:





#### 4. Inside dry

When you OFF the machine press this button it will dry the inside of the machine.

To prevent water rusting the machine.

#### 5. Room Temperature Inspection

The LED display  indicate the current room temperature.

#### 6. Automatic Defrost function

At low room temperatures, frost may buildup at the evaporator reducing the airflow across it during dehumidifying.

The dehumidifier will automatically start defrosting for 15 minutes.



The Defrost  LED blinking.

The compressor stops and the fan keeps running.

Do not turn off the unit and it will automatically restart dehumidifying.

#### 7. Overload Protection

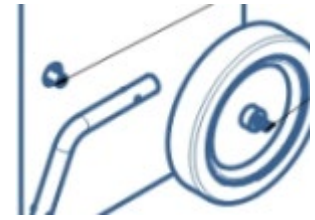
In the event of a power loss, to protect the compressor there is a 3-minute delay until the compressor restarting

## 6. Continuous draining

The machine can be placed near the sewage, below is water pipe install step:

We provide water pipe 0.6m. If the water pipe can arrive the sewage. No need to connect another long water pipe.

- a. If the water pipe we provide please prepare a long water pipe( $\Phi 16\text{mm}$ ) nested in the water pipe we provide and tightening.
- b. Water pipe can not bend and twine.



## 7. Maintenance

**Please cut off the power and pull the plug from the power before maintenance.**

### \* Clean machine body

Use soft rag with neutral detergent wipes the machine. Don't use volatile oil or diluents.

### \* Clean the filter

The air filter can separate the dust form air. If the filter is full of dust, it's not good to the machine's function, so we suggest you to clean it every half month, after you wash it, you should dry it. Do not use chemicals to wash it and avoid light exposure, or it will damage the filter.

Use a screwdriver removes the screw in the handle hole then pull the handle.

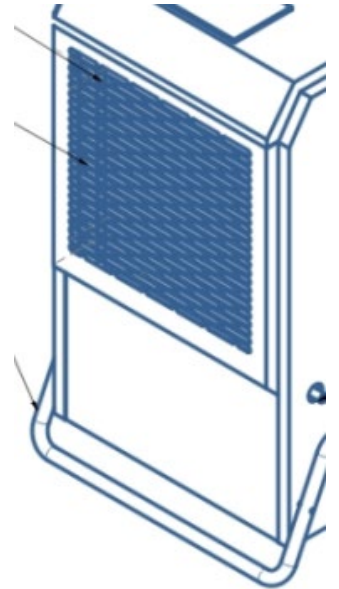
When clean the filter well put it in the machine and tighten the screw.

### \* Store

Please pull the plug from the power and clean the filter if long time do not use.

Please do not place the machine transversely.

Please store in a cool and dry place.



## 8. Attentions

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- \* This machine is suitable for temperature 5°C~38°C, When the machine is operating, please make sure that there is a earth lead.
- \* When moving the machine, to avoid any damage, please do not tilt the dehumidifier more than 45°.
- \* When it is draining off water continuously, please put the drain-pipe in a horizontal position, not higher than the water outlet.
- \* To lengthen the life of the machine, please wait 3 minutes to turn on the machine again after the machine stop working.
- \* Before you repair the machine or wash the machine, please make sure it is not power on and turned off.
- \* Please do not use chemicals、volatile solvent or corrosive solution to wash the machine.
- \* Please do not wash the machine with hot water that higher than 40°, or the plastic surface will fade away and damaged.
- \* Please use soft and clean fabric to dry the machine, if the outside of the machine is dirty, you can use neutral detergent clean and use water to wash it.
- \* To avoid leakage of electricity, please do not wash the machine with water directly.
- \* When the machine is operating, the compressor will produce heat, this is normal situation.
- \* **The machine is not Explosion-proof device please do not use it in flammable and combustibile place.**
- \* When the plug wire damage please call our maintenance crews help or someone who have same qualified person repaired.
- \* Used in dust environment please take measures to prevent the dust.

## 9. Get rid of fault

**If the following conditions happened, please turn off the machine and call the seller or after-sale service.**

- \* You can not turn on the machine and always fusing.
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\* Put something unknown or water into the machine by mistake.

\* Power line or plug get very hot with unknown cause..

Problems	Please firstly check the following points
When you press the button to turn on the machine, But it do not work.	<ol style="list-style-type: none"><li>1. Whether the water tank is in the right place?</li><li>2. Whether the machine is power on?</li><li>3. Whether the fuse is fused</li></ol>
Feel the moisture removal amount is low	<ol style="list-style-type: none"><li>1. Whether the filter is clean or not.</li><li>2. Whether the temperature of the room is too low?</li><li>3. Whether the air intake and air outlet is clogged?</li></ol>
The machine can not reach your humidity	<ol style="list-style-type: none"><li>1. Whether open the window?</li><li>2. Whether there is something that can produce steam inside your room?</li><li>3. Whether your room is too large?</li></ol>
Noisy	<ol style="list-style-type: none"><li>1. Whether the ground is flat?</li><li>2. Do you put the dehumidifier in a right place?</li></ol>