

---

# **IDEALair™**

## **COMMERCIAL-GRADE**

### **180 Pint Commercial**

### **Dehumidifier**

# User Manual



## DEHUMIDIFIER

### User Manual

Thank you for choosing our dehumidifiers.

This owner's manual will provide you with valuable information necessary for the proper care and maintenance of your new dehumidifier. Please take a few minutes to read the instructions thoroughly and familiarize yourself with all the operational aspects of this dehumidifier.

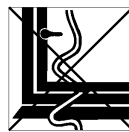


## Chapter 1 Precautions

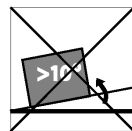
For your safety and service life of dehumidifier, please observe all of the precautions listed below:



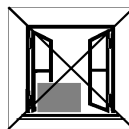
- Do not use if there is damage to the power cord. Do not plug into wall.



- Do not crimp, clamp, or stress the power cord.



- Do not set dehumidifier on uneven ground



- Do not set dehumidifier directly in front of the windows to avoid getting wet by rain



- Do not use chemical or corrosive object on dehumidifier.



- Do not set the dehumidifier near a heat source (or allow direct heat onto the unit).



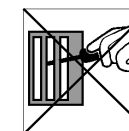
- Do not spill liquid on the dehumidifier



- Do not wash or soak the dehumidifier



- Plug directly into a grounded outlet; do not use multi outlet adapters



- Do not put hands or fingers into the air outlet frame or heat exhaust holes



- Do not disassemble the unit or component parts unless directed to do so by a qualified Technician.



- Keep children away



## 1.1 Prior to Operation

Warning: Before usage, the dehumidifier should be set upright for at least 2 hours.

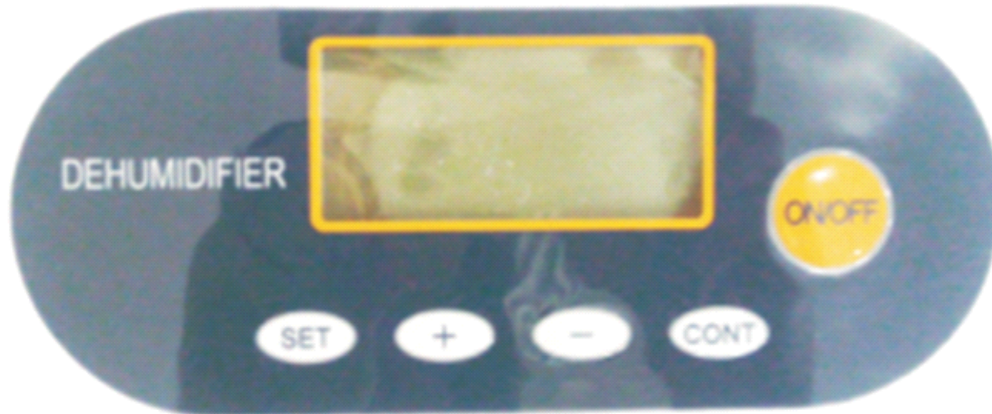
- The dehumidifier is powered by AC 110V/60Hz. To avoid damage on to the dehumidifier, only plug into a 110 volt outlet.
- Do not disassemble the case and other covers of the dehumidifier (incl. air outlet, front plate, etc.). If service is needed, it should be performed by a qualified service technician.
- Always plug into a grounded outlet.
- Keep children away from the dehumidifier.

## 1.2 Proper Care and Daily Maintenance

- Clean surfaces with a soft cloth (do not use solvents, gasoline, or a strong detergent). Hand wipe only. Do not immerse in water.
- If water enters the dehumidifier, unplug the unit and allow it to dry thoroughly. Contact a qualified service professional to evaluate before operation.
- Check and clean the filter prior to every use. At minimum, clean monthly.
- Do not use the dehumidifier around flammable liquids.



### 2.1 Control Panel



#### Function key:

##### 1. ON/OFF

Press once to turn the dehumidifier on or off.

##### 2. SET

###### A: To set humidity

- Press "SET" once to enter into a humidity setting mode.
- Press "+" each time to add 1% humidity, press "-" each time to reduce 1% humidity.

###### B: To set auto turn on or off (Turn unit on)

- Press "SET" twice to enter into a time setting mode, time on will flash for 5 seconds,
- Press "SET" once to set auto turn on, or twice to set auto turn off, timing off will flash on the screen for 5 seconds.
- Press "+" each time to add 1hour, or press "-" each time to add 1 minute.

##### 3. CONT

For continuous operation, press the "CONT" button. CONT will show on the display panel. Push again to turn off continuous operation.

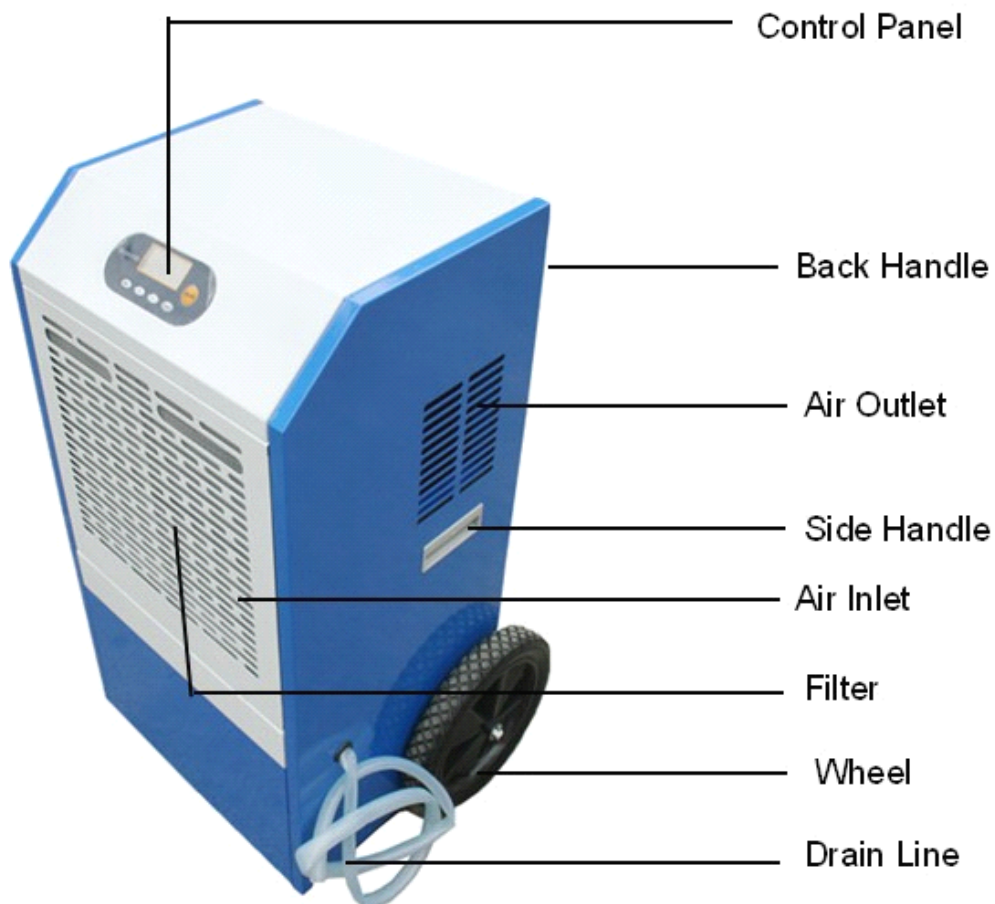
## 4. Automatic Defrost Mode

When running the dehumidifier below 59°F, frost will form on the evaporator coil. The unit will automatically go into defrost mode and melt any ice build-up.

## LED display

1. LED shows the present humidity level.
2. E6 Code - Temperature sensor fault.
3. E5 Code - Humidity sensor fault.

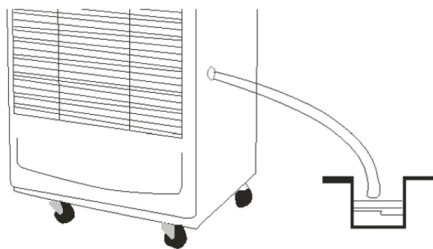
## Unit Diagram



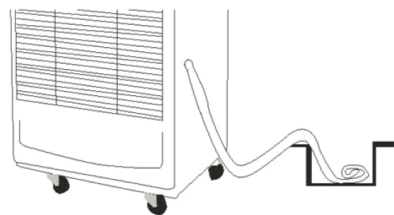


### Continuous drainage

Proper drain line installation:



Correct way: direct downwards



Wrong: being twisted

### Maintenance & Storage

**WARNING:** Before performing any maintenance, unplug the unit

1. Normal Maintenance - Clean the unit with soft cloth. Do not use liquids or harsh detergent.
2. Maintenance of the Filter - The filter should be cleaned prior to each use, and at least monthly. To clean, put filter in clean water and then dry it.
3. Storage - Store in a dry and cool place.



## Chapter 4 Troubleshooting

STEP	PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>1</b>	Burning smell and/or no display.	Power supply voltage is not within the specified range.	Check power supply voltage. Ensure it is between AC110~120V / 60Hz.
<b>2</b>	Unit doesn't operate.	Power cord disconnected.	Plug power cord into outlet.
		Water tank full indication lamp blinking (Tank is full or in a wrong position).	Empty water in drainage tank
		Temperature of room above 95°F or below 40°F	Protection device is activated. Try again when room space temperature is between 40°F~95°F.
<b>3</b>	No airflow	Air filter clogged	Clean air filter as instructed under "Cleaning the dehumidifier".
		Intake duct obstructed	Remove obstruction from intake duct.
		Discharge duct is obstructed	Remove obstruction from discharge duct.
		Fan not operating	Replace fan assembly.
<b>4</b>	Operation is noisy	Unit tilted or unsteady	Move unit to a stable sturdy location
		Air filter clogged	Clean air filter as instructed under "cleaning the dehumidifier"
		Fan is loose or obstructed	Secure fan wheel or remove obstruction.
<b>7</b>	Unit does not respond when "ON" button is pushed.	No electricity is supplied.	A) Verify power to the outlet. B) Verify unit is plugged in.
		The main board is defective.	Replace the main board.
<b>8</b>	Control Panel failure code shows " E6 "	Temperature sensor is broken.	Replace with new temperature sensor.
<b>9</b>	Control Panel failure code shows " E5 "	Humidity sensor is broken	Replace a new humidity sensor.
<b>10</b>	Control Panel failure code shows " H1 "	The main board is broken.	Replace with a new main circuit board.

STEP	PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>11</b>	Control Panel makes a “beeping” sound.	The control board is broken.	Replace with a new control board.
<b>12</b>	Fan indicator light does not illuminate.	The room temperature is below the low limit (40°F) or above the high limit (95°F).	Unit will work again when the room temperature is above the low limit temperature (40°F) and below the high limit (95°F).
		Fan is broken	Replace fan assembly.
<b>13</b>	Unit does not dehumidify.	Possible refrigerant leak.	Check unit for signs of a leak. Look for an oily residue in the unit. Contact qualified technician for repair.
<b>14</b>	Compressor does not run. Otherwise unit has power.	Bad compressor	Replace compressor. Contact qualified technician for repair.
<b>15</b>	Compressor stops and starts repeatedly	The compressor start capacitor has failed	Replace run capacitor.
		Main board has failed	Replace main board.





## Chapter 5 Specification

Model NO.	180PINT
Moisture removal pints/day	180pints/ (86°F 80% RH)
	108pints/ (80°F 60% RH)
Rated Voltage	115V-1 phase-60HZ
Power consumption	1350W
Current	12.5A
Air Flow	900m <sup>3</sup> /h
Refrigerant	R410a
Applied Temperature	45°F--105°F
Add Input Capacity	780g
P/N	#700897



## Chapter 6 Warranty

All Ideal Air Products come with a limited 1 year warranty. At our option we will either repair or replace any Ideal Air Dehumidifier that fails in the first 12 months from a manufacture defect. For a complete Limited Warranty Description, go to: [www.Ideal-Air.com](http://www.Ideal-Air.com)

# IMPORTANT

Product Defect? Not working properly?

DO NOT return this product to

the store where you purchased it.

Contact Ideal Air Support directly at

[support@ideal-air.com](mailto:support@ideal-air.com) or 877-943-3251.

For answers to the most common questions and a complete technical support

library please visit at [www.ideal-air.com](http://www.ideal-air.com)