



OWNER'S MANUAL

140 PINT COMMERCIAL DEHUMIDIFIER



MODEL 3PACD140



Installation safety precautions

1. The dehumidifier uses environmentally friendly R32 refrigerant, colorless, odorless and combustible.
2. The room area for installing, operating, and storing the dehumidifier of combustible refrigerant should be larger than the specified room area.
3. Do not puncture or ignite the dehumidifier.
4. Dehumidifier storage should be able to prevent mechanical damage caused by accidents.
5. The dehumidifier should be stored in a room without a continuous source of fire (e.g. open flame, lit gas appliance, electric heater on).
6. Safety checks must be carried out before maintenance or repair of dehumidifiers using combustible refrigerants to ensure that the risk of fire is minimized.



Maintenance precautions

1. Due to the special nature of R32 refrigerant, if the dehumidifier needs to be repaired or scrapped, please contact the authorized service center.
2. Maintenance by unqualified or non-professional personnel may pose a hazard.
3. When maintaining the dehumidifier, please strictly comply with the manufacturer's requirements.

PRODUCT PARAMETER TABLE

Model	3PACD140
Power Supply	115V/60Hz/1Ph
Rated Input Current	4.4 amps at 65°F 60%RH
Rated Input Power	480 watt at 65°F 60%RH
The Air Volume	205 CFM
Dehumidification Capacity (80°F / 60% RH)	75PPD
Dehumidification Capacity (90°F / 90% RH)	140PPD
Filter	SUS304 washable
Power plug length	25ft
Drain hose length	20ft
Net weight	73 lbs
Unit Size (W×H×D)	19 x 24 x 18.75 inch
Refrigerant/Charge (OZ)	R32/14.8oz

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**Stand dehumidifier upright for full 24 hours before
initial start up to allow refrigerant to settle.**

Always use and store dehumidifier in an upright position.

IMPORTANT NOTE:

Read the manual carefully. Make sure to save this manual for future reference. Illustrations in this manual are for explanatory purposes only, your actual product may look slightly different.

IMPORTANT SAFETY INSTRUCTION

BEFORE INSTALLING AND USING YOUR DEHUMIDIFIER, PLEASE READ THIS OWNER'S MANUAL CAREFULLY. STORE THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE.

The use of electrical products may create hazards that include, but are not limited to injury, fire, electric shock. Failure to follow these instructions may damage and/or impair its operation and void the warranty.

SAFETY TIPS

- Before operating, remove all packaging material and check for any damage that may have occurred during shipping or any missing items.
- Check household power supply to ensure it matches the specification of appliance.
- Always place the unit on a level surface.
- NEVER use or store gasoline or other flammable vapor or liquid near this unit unless instructed by this manual.
- **DO NOT** lay power cord under carpeting. **DO NOT** cover cord with throw rugs, runners, or similar coverings. **DO NOT** route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.
- To reduce the risk of fire or electric shock, **DO NOT** use this appliance with any solid-state speed control devices.
- **DO NOT** touch this appliance or the plug with wet hands or while standing in water.
- Maintain a 12-18inch clearance space around this unit. **DO NOT** block or cover air inlet or outlet grilles.
- The unit must be connected to a correctly grounded power supply.
- **DO NOT** start or stop the unit by inserting or pulling out the power plug.
- **DO NOT** use an adapter plug or extension cord.
- **DO NOT** use the unit in the immediate surroundings of a bath, a shower or a swimming pool.
- **DO NOT** insert anything into the air outlet. **DO NOT** obstruct air inlet or outlet grilles unless instructed by this manual.

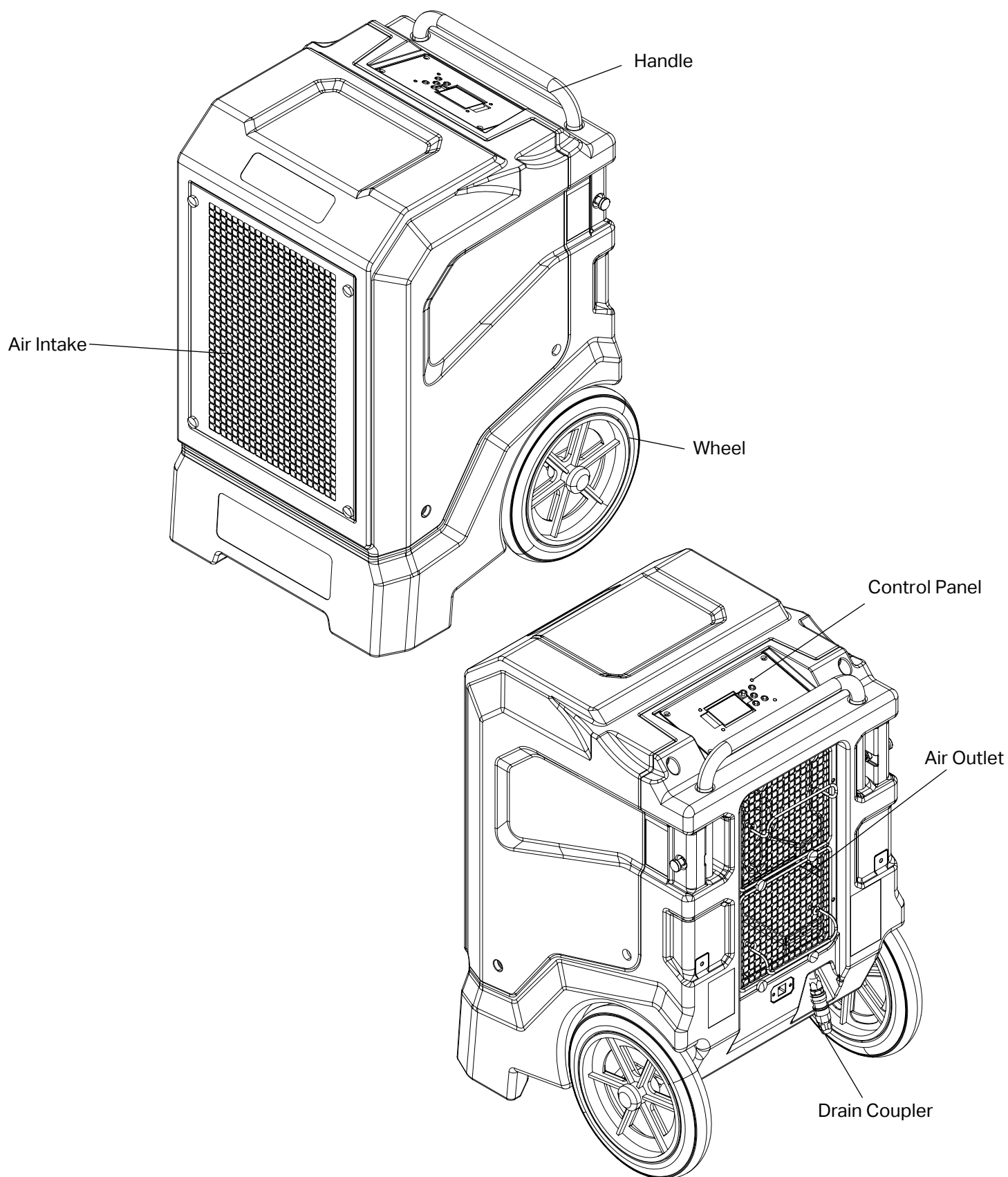
- **DO NOT** direct the air flow at human faces or bodies.
- **DO NOT** let children play near this unit.
- Always inspect the cord for signs of damage before use. If the power cord is damaged, it must be replaced by the manufacturer or a qualified service technician.
- **DO NOT** attempt to repair or adjust any electrical or mechanical functions of this appliance, as this may cause danger and void the warranty.
- If the appliance is damaged or it malfunctions, **DO NOT** continue to use it. Unplug the product and refer to troubleshooting guide or contact the seller.
- Make sure the unit is turned off and unplugged before cleaning or servicing this unit.

NOTICE OF OPERATION

- After the unit has stopped, it cannot be restarted immediately in the first **3 minutes**. Wait **3 minutes** before resuming operation to prevent damage to compressor.
- The operating temperature is 33-110°F.
- We suggest wash/change the filter once every 3 months.
- Clean the drain hose after operation to avoid any clogs.
- Before operating the dehumidifier connect the included drain hose using the provided drain couplers. **Do not** block the drain hose. The end of the drain hose should not be higher than 16-feet above the outlet hole. If the drain hose end is too high, water will not drain properly and could damage the unit.

IDENTIFICATION OF PARTS

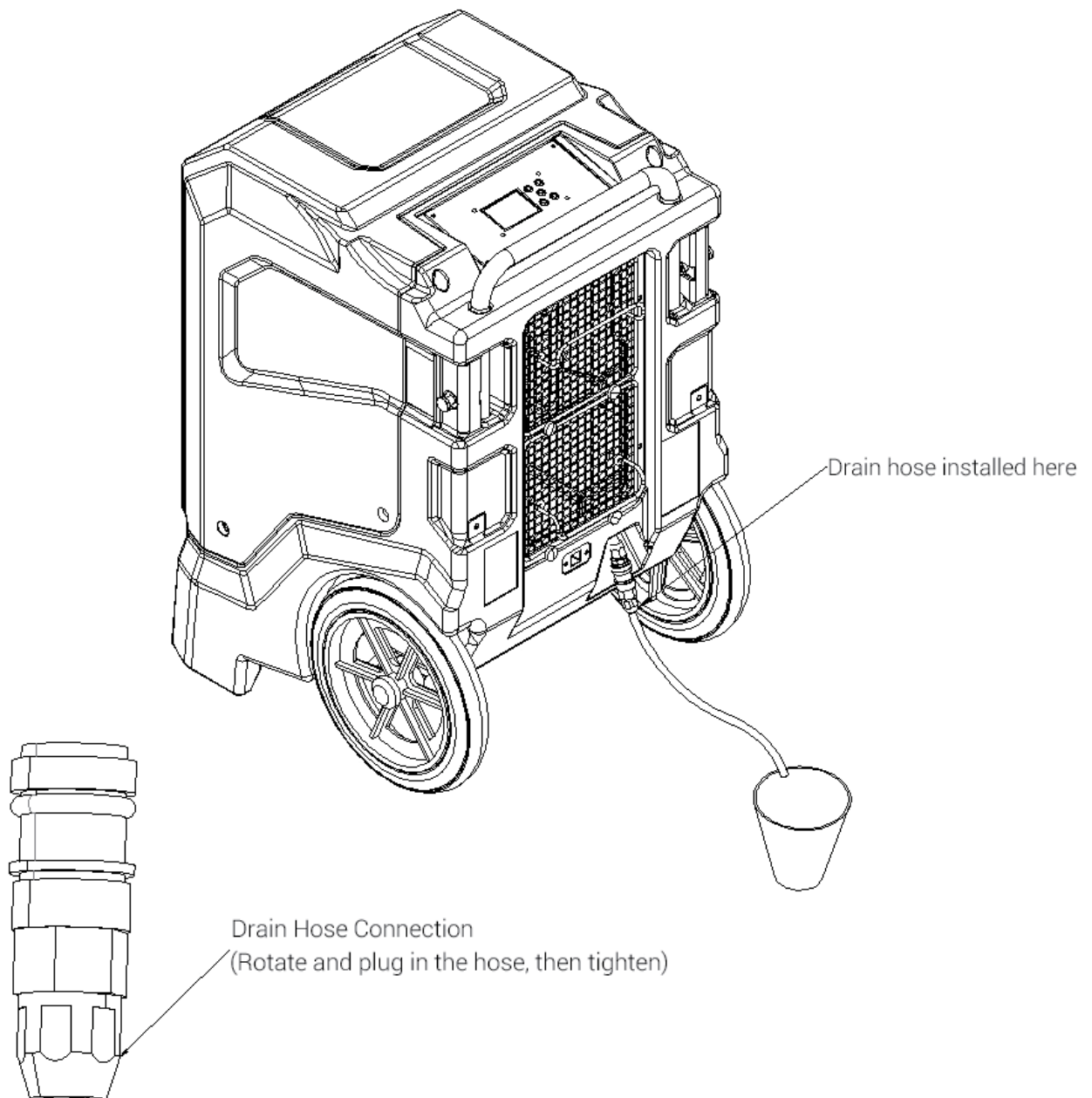
PRODUCT DESCRIPTION



INSTALLATION GUIDE

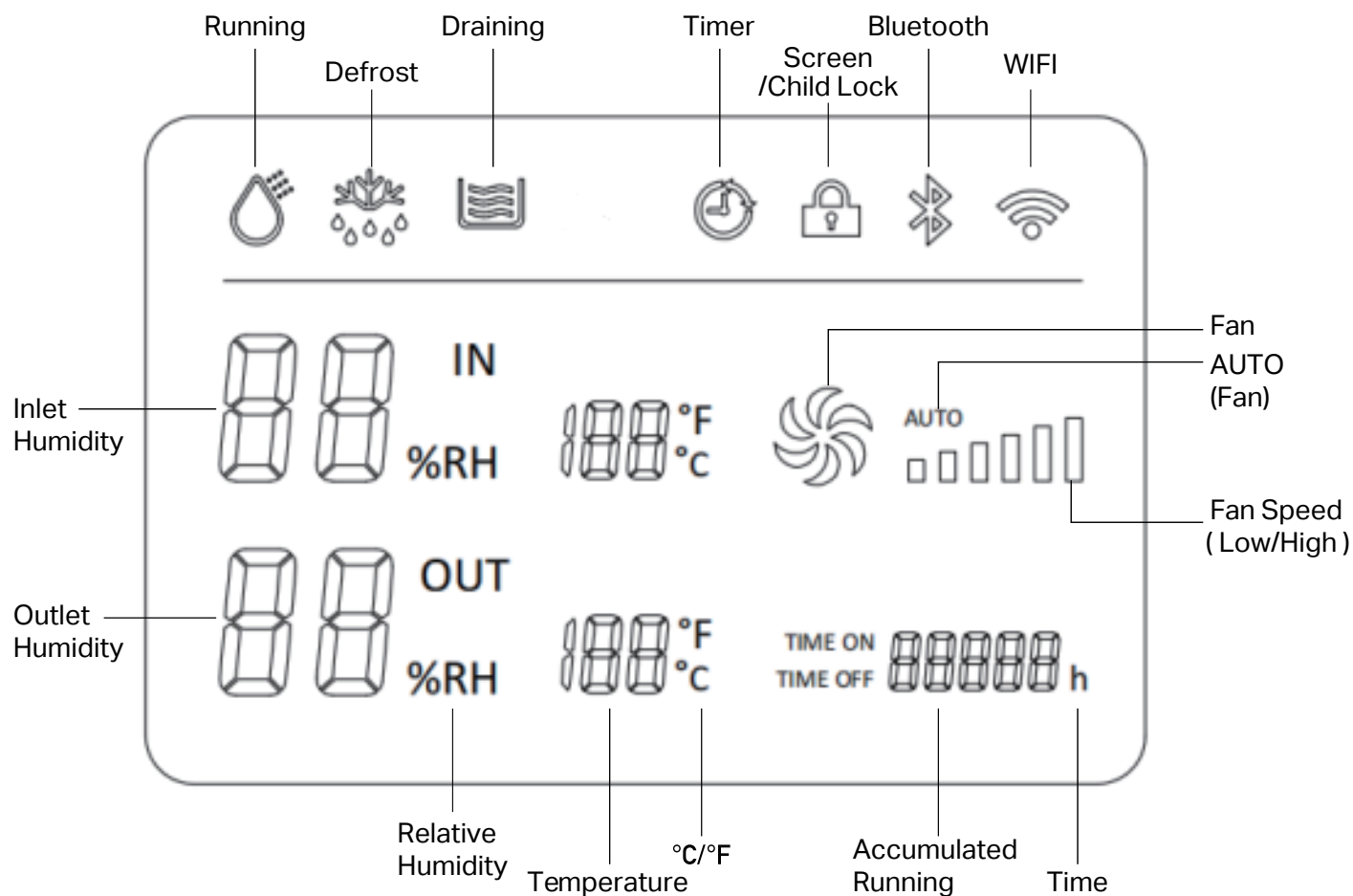
IMPORTANT SAFETY INSTRUCTION Minimum installation space required:
Length 6.6 ft × Width 6.6 ft × Height 9.8 ft (Length 2 m × Width 2 m × Height 3 m)

- Connect the drain hose to the machine's drain, making sure the two fittings are securely connected
- The machine's drain outlet is located as shown above
- Use a separate container to collect drain and periodically check for fullness, or run the drain directly to a floor drain or sink.



OPERATING INSTRUCTIONS

CONTROL PANEL



CONTROL PANEL FEATURES

NOTE: The following control panels are for explanation purpose only. The control panel of the unit you purchased may be slightly different according to the models. Your machine may not contain some indicators or buttons. The actual shape shall prevail.

BUTTONS

	ON/OFF power button.
	SYSTEM FUNCTION SETTINGS SHORT PRESS in sequence and use  or  to navigate the menu. After 5 seconds of no activity on the control panel, it will save the settings and close the menu: 1x = Fan speed setting 2x = Timer on setting 3x = Timer off setting 4x = Shutdown drainage (ON/OFF) NOTE: ON setting will instruct the machine to pump out all water in reservoir every time the dehumidifier is powered off. 5x = Continuous operation setting of the fan (ON/OFF) 6x = Fahrenheit/Celsius 7x = Calibration of inlet humidity values 8x = Calibration of outlet humidity values 9x = Save and exit LONG PRESS for 3 seconds to reset the WiFi module. (Under humidity calibration setting, we can adjust it by press button + and -, with an adjustable range of -10~10. For example, when the humidity display value of the dehumidifier is observed to be 5% lower than the humidity detected by separate detectors, the value needs to be adjusted to "5")
	SHORT PRESS to start the water pump drainage. LONG PRESS for 3 seconds to lock or unlock the screen. Lock screen feature cannot be activated when machine is powered off. SHORT PRESS WHEN SETTING TIMER: Cancels timer
	Increase value on timer, humidity setting, and navigate menu.
	Decrease value on timer, humidity setting, and navigate menu.

ICONS

	After connecting the power, short press the "on-off key" to turn it on, the dehumidification function is turned on, and the icon is displayed; press the power off again, the dehumidification function is turned off, and the icon is not displayed.
	SET HUMIDITY LEVEL - During normal operation, current room humidity will show on the screen. - Upon power-up, the default humidity value is 30%, AUTO fan speed when powered on. - The humidity level can be set between 30-90%. SHORT PRESS  or  keys to adjust the set humidity level by 1%. The display will flash 3 times, and after 5 seconds of no activity, the screen will resume showing the current room humidity reading. LONG PRESS the  or  keys to quickly adjust the percentage. When the set humidity is 30%, SHORT PRESS the  key again to enter the CO continuous dehumidification mode, the compressor will continue to run regardless of current room humidity.
	Shows the humidity reading of the exhausted air.
	AUTO DEFROST When you see this icon on the display, it signals that the evaporator or ambient temperature has dropped to a level where frost formation may occur. The machine will automatically initiate the defrost mode. During defrost mode, the dehumidifier will temporarily focus on melting any frost that has accumulated on the evaporator. The dehumidifier will automatically resume to the same settings and operation once the defrost cycle is complete.
	When this icon flashes, the machine is draining water. Automatic Drainage: When the system receives the water full signal for ≥ 3 seconds, the water pump will activate and drain the water. During this time, the compressor and fan motor will continue to run and this icon will flash. Manual Drain: After pressing the manual drain button  the water pump will activate and drain the water. During this time, the compressor and fan motor will continue to run and this icon will flash. NOTE: If the full water signal is not cleared in 60 seconds, an alarm will sound, the fault code E3 will show, and the icon will continue to flash. This machine features a water pump designed for efficient water removal up to a maximum 18ft vertical height. If the hose exceeds this 18 ft. limit in height, it can lead to pump failure. To resolve this issue, lower the hose height and attempt operation again.
	Screen is locked and will not react to buttons. LONG PRESS  for 3 seconds to activate and cancel lock screen. Mobile app can also lock or unlock screen. Lock screen feature cannot be activated when machine is powered off.

ICONS

	FLASHING: In WiFi pairing mode. NOT FLASHING: WiFi is connected or connection was successful.
	When this icon is displayed, the timing function has been set; when this icon is not displayed, the timing function has not been set. 1) Timing Setting After pressing the  to enter the timing setting, press the  or  to adjust the hour position by 1 unit, press and hold for 5 seconds to quickly adjust, and the value 00-23 will change cyclically. After the timer is set on, it will be saved and exited if there is no operation for 5 seconds. If you press the  again within 5 seconds, it will enter the next option of system settings. 2) Timer Off Setting After pressing the  to enter the timer off setting, the operation method is the same as the timer on setting. 3) Cancel Timing The timed on/off setting is automatically canceled after being executed once, and does not execute circularly, and the timed on/off time becomes 00. When the timer is on or off, short press the Drain button  to cancel the timer setting, and the current time becomes 00.
	Upon power-up, the default fan speed is AUTO. SHORT PRESS  once to enter the fan speed settings. Press  or  to toggle between AUTO, LOW – HIGH. After 5 seconds of no activity, the setting will save. Our advanced commercial dehumidifier features an AUTO mode, adjusting the wind speed gear based on the prevailing working conditions. This technology ensures optimal performance and efficiency, providing a hassle-free dehumidification experience.
	TEMPERATURE SCALE SETTING SHORT PRESS  6 times to enter the temperature scale settings. Press  or  to cycle between degrees Celsius and degrees Fahrenheit. After 5 seconds of no activity, the setting will save. IN – Inlet Air Temperature OUT – Outlet Air Temperature
	TIME ON: Timer is set to turn the machine on. TIME OFF: Timer is set to turn the machine off. h: The dehumidifier's lifetime running timer starts counting when it's powered on and will stop counting when it's powered off, either manually or by the 24-hour on/off timer. • During a fault or abnormal shutdown, the dehumidifier will continue to keep track of running time. • Turning the power off and restarting the dehumidifier does not reset the lifetime running timer to zero. • The timer display consists of 5 digits, allowing for a maximum count of 99,999 hours before it returns to zero. • The machine displays the running time in hours.

POWER-ON AUTOMATIC DETECTION

After power-on, all displays, indications, and back-lights will light up for 2 seconds, and the buzzer will beep briefly.

At the same time, the system will conduct self-checks on communications and sensors, and the system will enter the shutdown state when the detection is normal. The device fault alarm three times.

COMPRESSOR PROTECTION FOR THREE MINUTES

After the compressor is stopped, it must wait 3 minutes before starting again.

After the compressor is started, it must run for 3 minutes before it can be shut down. If it is a manual shutdown, it will be shut down immediately.

When the power is turned on for the first time, there is no 3 minute delay protection when the compressor starts.

POWER-DOWN MEMORY FUNCTION

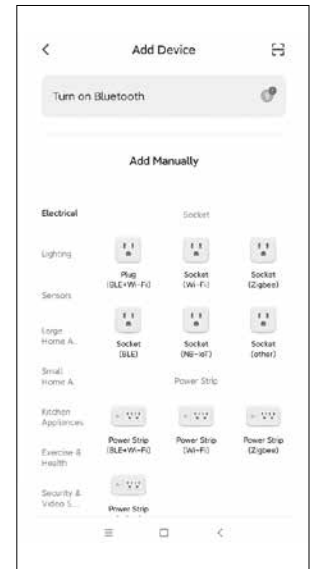
The system has a power-down memory function, which saves settings about humidity, timing on/off time, fan speed, and temperature scale, and saves timing data.

APP CONTROL

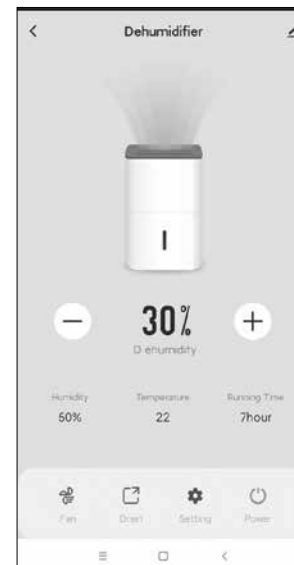
- (1) Scan the QR code  (on the right) on your mobile phone to download the "Smart Life" APP.
- (2) Press and hold the setting button on the machine control panel  for 3 seconds to reset the WIFI module.
- (3) Turn on the Bluetooth of your mobile phone and open the "Smart Life" APP.
- (4) Click "Add Device" in the APP (Figure 1).
- (5) The phone will automatically search for nearby devices, and after discovering the device, click "Add" (Figure 2).
- (6) Enter the WIFI density and display "Added successfully", you can use the mobile phone to control the device (Figure 3).



(Figure 1)



(Figure 2)



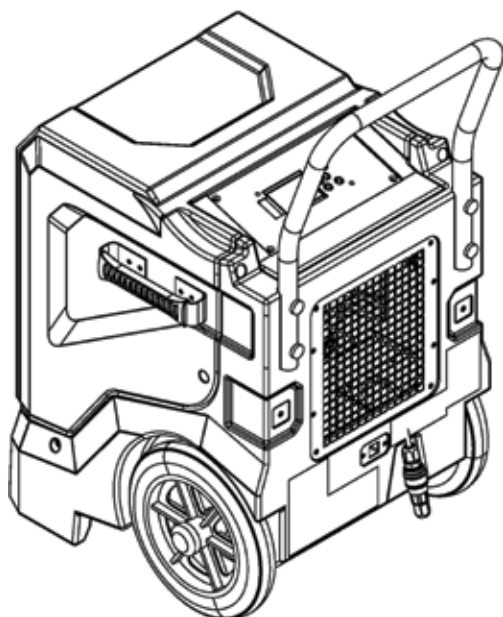
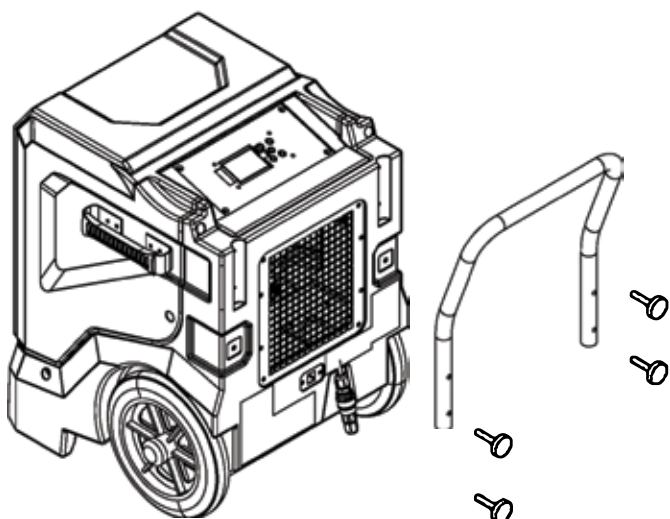
(Figure 3)



APP download

INSTALLING THE HANDLE

1. Take out the handle and hand nut from the box
2. Fix the handle securely

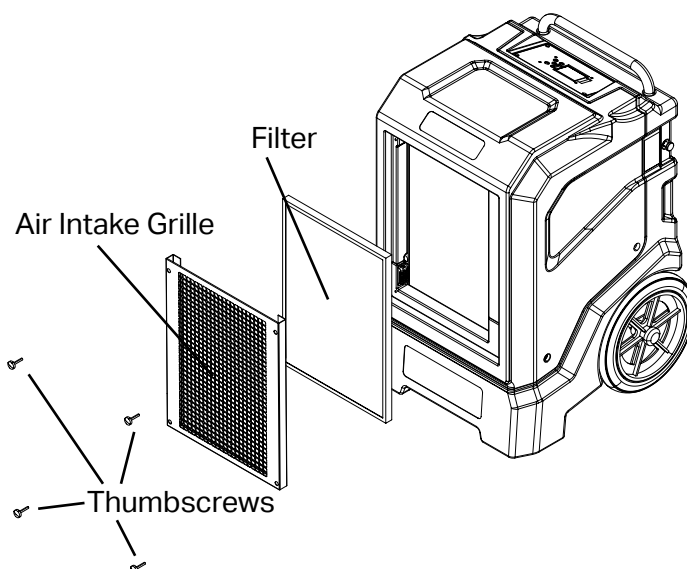


CLEANING THE AIR FILTER

NOTE: Ensure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry! The air filter has to be cleaned as soon as it is dirty.

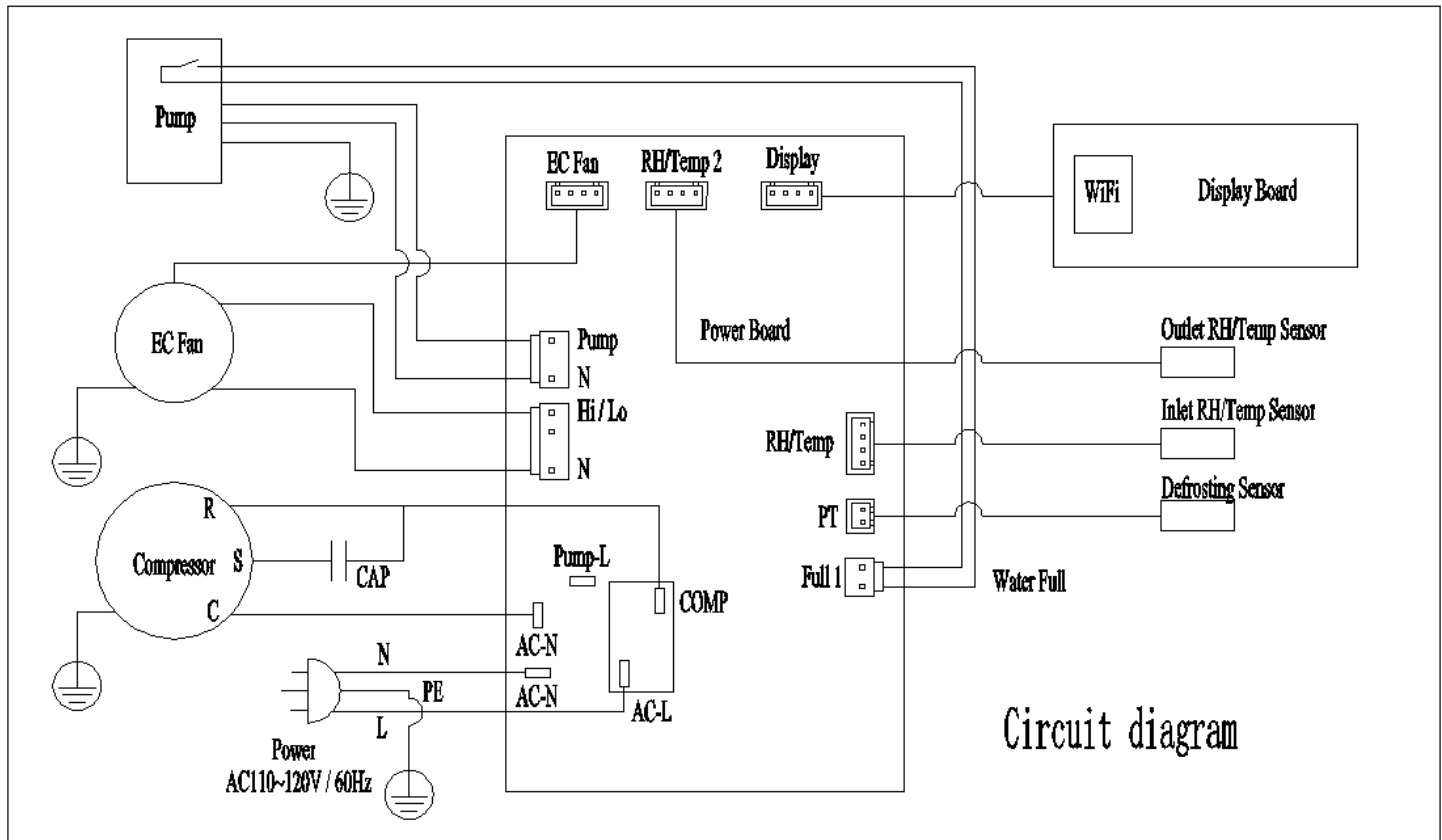
We suggest cleaning the filter every 3 months. Routinely check and clean filter sooner if used in environments with high air pollution.

1. Remove the air filter from the device.
(Remove the 4 thumbscrews located on the corners of air intake grille on the front of the machine)
2. Clean the filter using a slightly damp, soft, lint-free cloth. If the filter is heavily contaminated, clean it with warm water mixed with a neutral cleaning agent.
3. Allow the filter to dry completely.
Do not insert a wet filter into the device
4. Reinsert the air filter into the device.



TROUBLESHOOTING

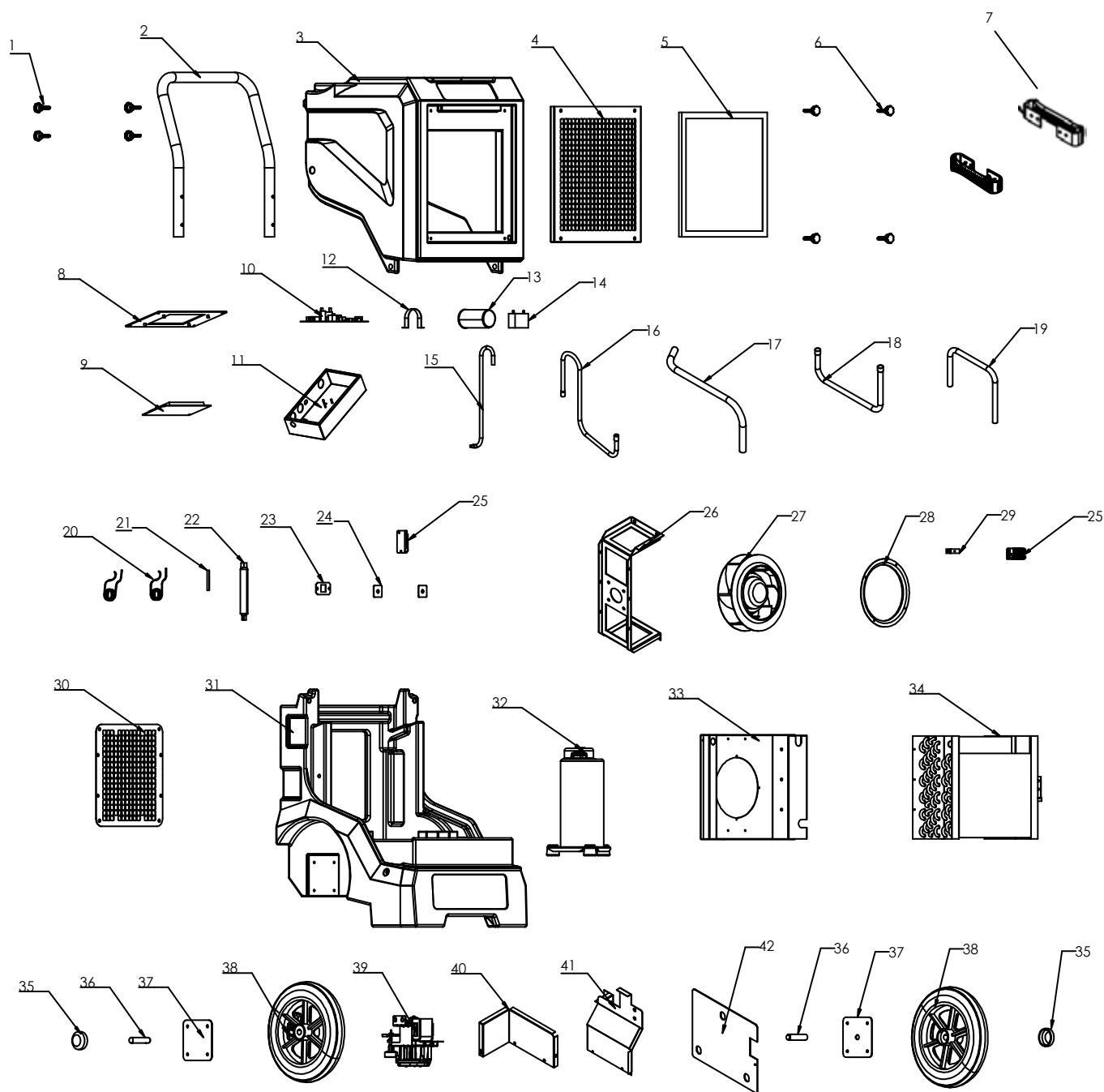
WIRING DIAGRAM



ERROR CODES

Code	Description	Solution
E0	Communication Fault	Check the connection between the power board and display panel and reconnect them
E1	Humidity Sensor A Failure	Check the connection of the humidity sensor or replace it
E2	Temperature Sensor A Failure	Check the connection of the temp. sensor or replace it
E3	Water Full Alarm/Fault	Check if the water pipe is blocked or replace the water pump
E4	Coil Temperature Sensor Failure	Check the connection of the temp. sensor or replace it
E9	Fan Failure	Check the connection of the fan or replace it
E11	Humidity Sensor B Failure (Eb)	Check the connection of the humidity sensor or replace it
E12	Temperature Sensor B Fault (EC)	Check the connection of the temp. sensor or replace it

BOM



PARTS LIST

NO.	DESCRIPTION	QTY
1	Hand nut	4
2	Handle 1	1
3	Upper shell	1
4	Air intake grille	1
5	Filter	1
6	Hand nut	4
7	Handle 2	2
8	Displays panel fix components	1
9	Display board	1
10	Main board	1
11	Electrical box	1
12	Capacitor hoop	1
13	Compressor capacitor	1
14	Fan capacitor	1
15	Connector tube	1
16	Exhaust pipe 1	1
17	Exhaust pipe 2	1
18	Return trachea 1	1
19	Return trachea 2	1
20	Capillary	2
21	Process pipe	1
22	Drying filter	1

NO.	DESCRIPTION	QTY
23	Power cable fixed plate	1
24	Velcro cover	2
25	Temperature and humidity sensor	2
26	Fan support	1
27	Fan	1
28	Wind guide	1
29	Temperature and humidity sensor fixing plate	1
30	Air outlet panel	1
31	Bottom shell	1
32	Compressor	1
33	Middle support plate	1
34	Heat exchanger components	1
35	Dust cover	2
36	Axle	2
37	Wheel axle plate	2
38	Wheels	2
39	Pump	1
40	Water pump cover 1	1
41	Water pump cover 2	1
42	Compressor fixed plate	1



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