

Installation & Operation Manual



i*eco Dehumid-heat-er

Model PDH-6A

Safety Instructions

IMPORTANT



Read this manual before installation, operation and maintenance of the product.

The following instructions should be strictly observed to prevent injury to the users and other persons, or damage to property.

Types of instructions that should be observed have been classified and described by the following pictorial symbols.



Important to observe and/or follow to avoid injuries and damage.

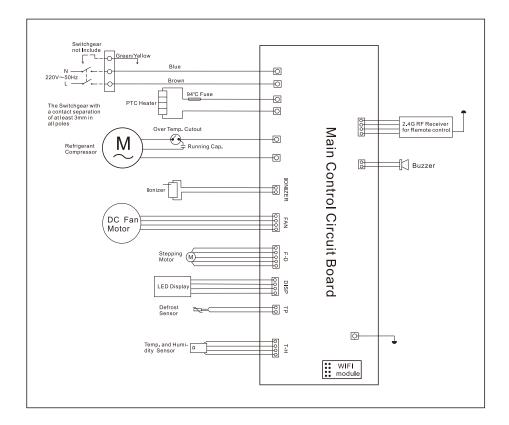


Important to follow and/or note to ensure proper operation.

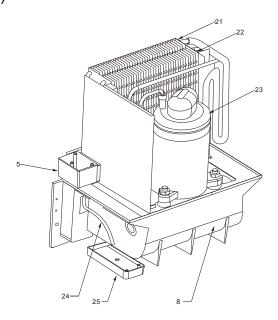
E Smart App

Factory proprietarily developed Apps for both Android / iOS systems free for download from the official websites of Play Store / APP Store. The Apps would allow you to control and monitor the Appliance using smartphone or tablet remotely via Wi-Fi anytime at home or anywhere.

8. Wiring Diagram



6. Parts (Con't)



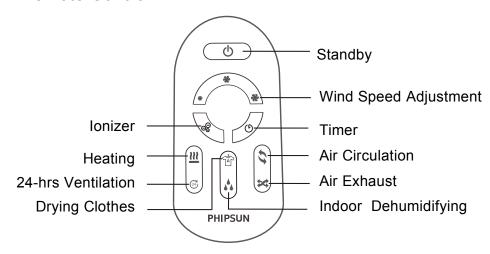
7. Technical parameters

Rated Voltage	220V
Rated Frequency	50Hz
Rated Power (Heating)	1050W
Rated Power (Compressor)	155W
Rated Current	5.8A
Air Volume	220m³/h
Weight	11.5Kg
Overall Dimensions	344(h)x328(w)x233(d)mm
Panel Dimensions	344(h)x328(w)x29(d)mm
Metal Housing	300(h)x287(w)x190(d)mm
Dehumidification	5.4 litre/day [Rated]
Working Temperature	5 to 35 Degree C
Refrigerant	R134a
Refrigerant Weight	130g
Refrigerant Hi Pressure	0.6-0.7MPa
Refrigerant Low Pressure	0.25-0.35MPa

Content

	Safe	ety Instructions	1	
	Con	tent	2	
1.	Rem	note Control	3	
	1.1	Main Functions		
		1.1.1 Exhaust	4	
		1.1.2 Air Circulation	4	
		1.1.3 Air Circulation with Ionization	5	
		1.1.4 24 hours Ventilation	5	
		1.1.5 Dehumidification	6	
		1.1.6 Heating	6	
		1.1.7 Drying Clothes	7	
		1.1.8 Quick Drying Clothes	8	
2.	Inst	allation	9	
	2.1	Indoors Connection	9	
	2.2	Outdoors Connection	10	
	2.3	Window Type Installation	11	
	2.4	Drainage Installation Method	11	
	2.5	Connection to Power Source	12	
3.	Mai	ntenance	13	
	3.1	Removing the Front Panel	13	
	3.2	Regular Cleaning	14	
4.	Tro	ubleshooting	15	
5.	Acc	essories	15	
6.	Part	S	16	
7.	Tec	hnical Parameters	17	
8.	Wiring Diagram			

1. Remote Control



- Use two numbers AAA batteries
- Pairing the Remote control with i*eco Dehumid-heat-er:
 - Turn on the power. "PO" will appear on the LED display.
 - Press any key for paring the device until "OK" appears on the LED display. All remote functions can now be used.

Installing Remote Control Assembly

- 1. Remove the remote-control unit from the holder.
- 2. Drill two holes of 6mm diameter and fix the control unit holder.
- 3. Install two numbers AAA dry batteries in the remote control
- 4. Secure the remote control back to the holder
 - Ensure the polarities of (+) and (-) of batteries are correct and not reverse.



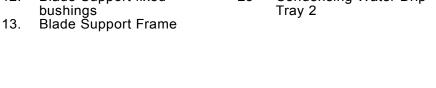
- Do not mix an old battery together with a new one or different types of batteries for usage.
- Take out the batteries if for prolonged period of time the remote control is not to be used.

6. Parts

Blade Fittings

Blade Support fixed

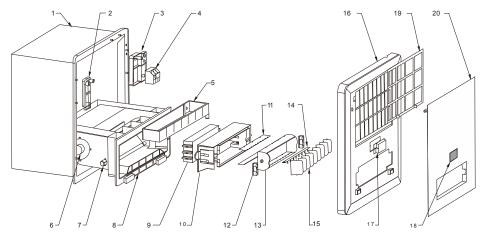
1.	Metal Housing	14	Blade Connector
2.	Front Panel Support (Left)	15	Blades
3.	Front Panel Support (Right)	16	Front Panel
4.	220V Supply Cable \ \ \ '	17	LED Display
	Connector		, ,
5.	Condensing Water Drip	18	Display Cover
	Tray 1		
6.	Air Blower	19	Air Filter
7.	Stepping Motor	20	Front Cover
8.	Volute Air Passage	21	Evaporator
9.	PTC Heater	22	Condenser
10.	Heating Element Support	23	Compressor



24

Drain Pipe

Condensing Water Drip



4. Troubleshooting



- Switch OFF power and stop using, if the Appliance operates abnormally or if there are signs of overheating
- Seek services from Qualified or Licensed personnel for inspection.



- Do not insert fingers or objects through the front cover for inspection.
- Do not touch the Appliance with wet hands or wet cloth.
- Do not spray water or liquid over the Appliance.

Power Button pressed with No Response	Check Main Power, if OFF, switch/On. Check Plug connection if loose.
Abnormal Noise	Check Air Filter, Clean if Clogged
H3	Fan Motor failed
H4	Evaporator Temperature Sensor failed
H7	Temperature & Humidity Sensor failed

5. Accessories

No.	Drawing	Name and Purpose	Qty.
1		RF 2. 4G Remote controller with wall mounted holder	1
2	-	AAA dry cell battery	2
3	(S) MINIME	The self-tapping screw (ST4 x 20) for window mounting	8
4		Diameter 10mnn quick connector (DRAIN)	1
5		Inner Diameter 10mm x 2m flexible drain pipe	1
6		Straight Connect (DRAIN)	2

1.1 Main Functions

1.1.1 Exhaust 🔀



- a. Press 🔀 button to start the Exhaust Mode.
- b. Press * * button to adjust the Fan Speed.
- c. Set the desired period of operation (Preset at 4 hours).
- d. Press the button to stop. The Appliance will stop.

Note:

- Default setting is 4 hours at medium fan speed.
- The Appliance will switch to stand-by mode at the pre-set time.



- a. Press 🕻 button to start the Air Circulation Mode.
- b. Press * * button to adjust the Fan Speed.
- c. Set the desired period of operation (Preset at 4 hours).
- d. Press the button to stop. The Appliance will stop.

Note:

- Default setting is 4 hours at medium fan speed.
- The Appliance will switch to exhaust mode for 2 minutes for every 28 minutes of air circulation operation.
- The Appliance will switch to stand-by mode at the pre-set time.

1.1.3 Air Circulation with Ionization

- a. Press 💲 button to start the Air Circulation Mode.
- b. Press * * button to adjust the Fan Speed.
- c. Set the desired period of operation (Preset at 4 hours).
- d. Press the ⊕ button to start Ionization Mode.
- e. Press the 🖒 button to stop. The Appliance will stop.



If you have asthma or other breathing disorders, DO NOT activate the function.

Note:

- Ionization will operate in cycles of 30 minutes ON and 30 minutes OFF continually.
- Default setting is 4 hours at medium fan speed.
- The Appliance will switch to exhaust mode for 2 minutes for every 28 minutes of air circulation operation.
- Appliance will switch to stand-by mode at the pre-set time.

1.1.4 24 hours Ventilation

- a. Press button to start the 24 hours Ventilation Mode.
- b. Press * * * button to adjust the Fan Speed.
- c. Set the desired period of operation.
- d. Press the button to stop. The Appliance will stop.

Note:

- Default setting is 24 hours at medium fan speed.
- The Appliance will switch to stand-by mode for 2 minutes for every 13 minutes of Ventilation operation.
- The Appliance will switch to stand-by mode at the pre-set time.

3.2 Regular Cleaning



Qualified or Licensed Personnel must be employed for carrying out Maintenance Work involved electrical and mechanical parts and components



Turn Off the Power before Routine Cleaning



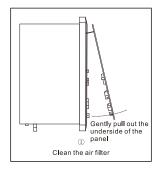
Front Cover and Panel Cleaning

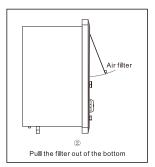
- -Use soft cloth to clean the dirt on the front cover and panel
- -Wipe the front cover and panel by lukewarm water with neutral detergent
- -Rinse with clean water
- Wipe dry the front cover and panel with cloth
- Filter must be cleaned after a period of normal operation, normally at monthly interval

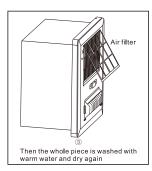


Dust Filter Cleaning

- Remove the front cover and panel
- Remove the dust filter assembly
- Wash the filter in cold water until all dusts are removed
- Leave filter dry out in clean place
- Reinstall the filter assembly, front cover and panel







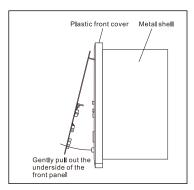
3. Maintenance

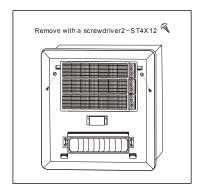
- Registered Electrical Workers and/or Qualified Personnel must be employed for carrying out Installation and Maintenance Work involved Electrical and Mechanical Parts and Components.
- Do not modify the Appliance as it may cause injury and damage.

- Disconnect power before Maintenance.

- Do not replace or use unauthorized parts or components

3.1 Removing the Front Panel





- Lightly pull the Front Cover at the lower corner as left.
- Remote 2-ST4X10 self-tapping screws with the screwdriver.

1.1.5 Dehumidification



- a. Press the button to start Dehumidification Mode.
- b. Press * * button to adjust the Fan Speed.
- c. Set the desired period of operation (Preset at 8 hours).
- d. Press the 🖒 button to stop. The Appliance will stop after a delay of 15 seconds.

Note:

- Default setting is 8 hours at high fan speed.
- The Appliance will switch to stand-by mode at the pre-set time.



Research papers showed prolonged relative humidity below 35-40% and low ambient temperature could encourage air-flow spread of influenza virus.



- The compressor will stop automatically when the relative humidity is below 35% and all other parts are still in operation.
- The Appliance will restart the dehumidification function automatically when relative humidity is above 40%.
- Wait for at least 3 minutes to restart

1.1.6 Heating



- a. Press the <u>m</u> button to start Heating Mode.
- b. Press * * * button to adjust the Fan Speed.
- c. Set the desired period of operation
- d. Press the button to stop. The Appliance will stop after a delay of 15 seconds

Note:

- Default setting is 4 hours at medium fan speed
- The exhaust damper will open for 30 seconds for every 30 minutes operation.
- The Appliance will switch to stand-by mode at the pre-set time.
- When the room temperature reaches the pre-set temperature (Default setting is 30°C), the heating icon will FLASH on the display and heating cycle will stop and keep air circulation.

1.1.7 Drying Clothes



- a. Press the hotton to start Drying Clothes Mode.
- b. Press * * button to adjust the Fan Speed
- c. Set the desired period of operation (preset at 10 hours)
- d. Press the button to stop. The Appliance will stop after a delay of 15 seconds

Note:

- Default setting is 10 hours at high fan speed.
- The Appliance will switch to stand-by mode at the pre-set time.

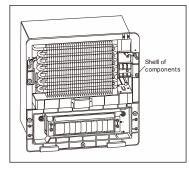


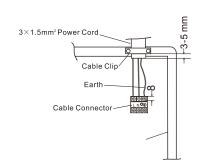
Research papers showed prolonged relative humidity below 35-40% and low temperature ambient could encourage spread of influenza virus.

2.5 Connection to power source



WARNING

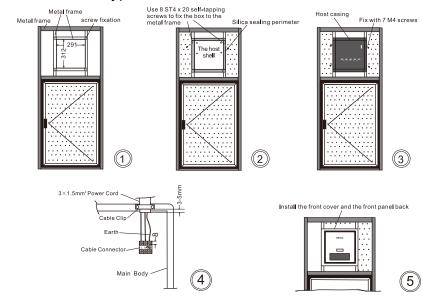






- Remove the Front Cover as shown in above Figure.
- Use 3x1.5mm² PVC sheathed PVC insulated flexible cord for power connection.
- Strip off the sheath of flexible cord to appropriate length.
- Strip off the cores insulation to appropriate length.
- Ensure copper cores are fully inserted in terminals.
- Secure the earth wire. The appliance must be EARTHED.
- Do not replace or use unauthorized parts or components.
- The Appliance is rated at 220V/50Hz
- Wired the appliance through a fused outlet or 13A rated socket, with RCD protection where required.
- Use double pole switch for power ON/OFF control installed within a distance of 3 meter.

2.3 Window Type Installation



- Adequate supports and strength of at least 5 times the weight of the appliance and accessories, if any, required for installation over window sill.
- Cut the aluminum alloy to form a metal frame and secure it onto the original window opening by pop rivets as shown in figure 1
- Push the metal housing into the metal frame and fix with 4-ST 4X20mm self-tapping screws as shown in figure 2.
- Allow addition glass and silicon to seal around the flange of product.
 Make sure the silicone covers the entire surface of sponge. Push the main unit into the metal housing as shown in figure 3.
- Install power supply as figure 4.
- Reinstate the front panel as figure 5.

2.4 Drainage installation method

The user should determine what type of drainage connection is to be adopted.

Factory default - OUTDOOR DRAINAGE SYSTEM.

- The compressor will stop automatically when the relative humidity is below 30% and all other parts are still in operation
- The Appliance will restart the dehumidification function automatically when relative humidity is above 35%.
- Wait for at least 3 minutes to restart

1.1.8 Quick Drying Clothes



- a. Press the + W button to start Quick Drying Clothes Mode.
- b. Press * * button to adjust the Fan Speed
- c. Set the desired period of operation (Preset at 10 hours)
- d. Press the (b) button to stop. The Appliance will stop after a delay of 15 seconds

Note:

- Default setting is 10 hours at high fan speed.
- The Appliance will switch to stand-by mode at the pre-set time.
- When the room temperature reaches the pre-set temperature (Default setting is 30°C), the heating icon will FLASH on the display and heating cycle will stop and keep air circulation.



Research papers showed prolonged relative humidity below 35-40% and low temperature ambient could encourage spread of influenza virus.

- The compressor will stop automatically when the relative humidity is below 30% and all other parts are still in operation



- The Appliance will restart the dehumidification function automatically when relative humidity is above 35%.
- Wait for at least 3 minutes to restart

2 Installation

- Qualified or Licensed Personnel must be employed for carrying out Installation and Maintenance Work involved electrical and mechanical parts and components
- Improper Installation may cause injury and damage.
- Do not modify the Appliance as it may cause injury and damage.

Note:

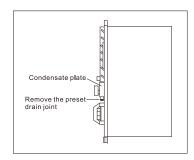
Do not install the appliance at locations and places where it is:

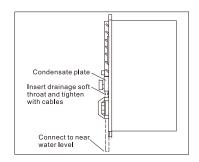
- 1. High ambient of high temperature,
- 2. Close to shower head.
- 3. Exposed to oil mist,
- 4. Inside wardrobes.

Make sure:

- 1. Outlet for air not blocked,
- 2. At adequate height from floor level, say 2 meters,
- 3. Away from inflammable materials,
- 4. Away from hanging curtains and drapes at least 200mm.
- 5. All Components and parts should be properly tightened.

2.1 Indoor Connection



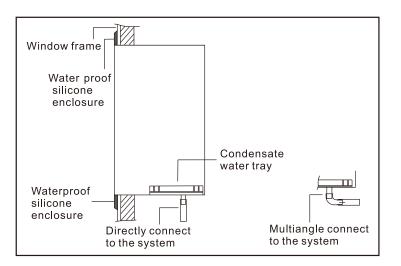


- Remove the Front Cover as shown in above Figure.
- Remove the original drain pipe from the drain point.
- Connect the diameter 10mm (3/8") drain hose to the condensing water drip tray and fix with cable lock.
- Secure the other end of the hose to nearest floor drain or Water container.



Test method: Pour a moderate amount of water into the condensation water plate until the drain is drained.

2.2 Outdoor Connection



Connect the drain hose to the outdoor drainage system by directly plugged into the drip tray outlet or use quick connector to the appropriate location.



Test method: Pour a moderate amount of water into the condensation water plate until the drain is drained.