

# AIRREX

# **HEAT PUMP**

**USER'S MANUAL** 

MODEL: AHSC-42 220/1



- ► Thank you for purchasing the unit. Before operation, please read this user's manual carefully.
- ▶ Keep this manual on hand for reference.
- ► This unit is specified for use on the rated voltage power supply.
- ▶ It is essential that you read 'SAFETY INSTRUCTIONS' carefully before use and follow them at all times.
- ► The warranty form is on the last page. Please complete it now and keep it in a safe place.
- ► We have a policy of continual improving on our products. The contents (features and specifications) in this manual are therefore subject to change without notice.





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The following instructions are to ensure user's safety and to prevent any physical injury or material damage. Please read carefully and follow all instructions. There are two sections to these instructions: WARNING and CAUTION.



### SAFETY INSTRUCTIONS

#### **WARNING**

Use a circuit breaker that fits the capacity. (It may cause fire and electric shock)

Before cleaning, disconnect the unit. (Otherwise risk of electric shock)

Do not use a damaged power cable. (Short, fire or shock hazard)

Do not use an extension lead unless of the approved type. (Risk of fire and / or electric shock)

Do not place anything on top of the machine. (This could cause electric shock, malfunction or injury)

Do not kink or sharply bend the power cable nor put any weight on it. (The insulation may be damaged causing fire or electric shock)

Check control panel after turn off circuit breaker first. (Risk of electric shock and / or malfunction)

Do not use this unit on unstable or inclined surfaces. Always use on solid flat floor. (Risk of falling causing injury, fire or malfunction)

Keep this manual in a visible location near the unit for easy reference.

#### **INSTALLATION**

#### WARNINGS REGARDING PROPER LOCATION FOR INSTALLATION



Do not use the unit in explosive environments or in areas where flammable gas leakage may occur.

The following symbols are for your guidance:

√ = You MUST.

|X| = You must NOT.

Do not use the unit in areas where it will be exposed to rain or water.

Do not use the unit in a corrosive atmosphere.

Do not install the unit on uneven or sloping surface. The unit may roll or topple over even if the casters are set to the locked position.

#### MOVING THE UNIT

Unlock the casters and push the unit to a flat surface and set the caster brakes to the locked position.

#### PLUGGING IN THE UNIT

Check the prongs and surface of the power cord plug for dust/dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.

Check the power cord, plug and prongs for damage or overload.

If any damage or overload is found, contact a qualified repair technician or a qualified electrician to perform replacement or repair of the power cord, plug or prongs.

\Lambda WAR

If the power cord or plug is damaged, repair should only be performed by qualified electrical personnel.

Do not connect/disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.



### **SAFETY INSTRUCTIONS**

#### **CAUTION**

- Do not place this unit on uneven, unstable or inclined surface. (This could cause malfunction)
   When storing this unit, keep it in a dry, cool place. (To prevent corrosion and malfunction)
   If not being used for some time or if lightening is present, always disconnect power. (To prevent risk of electric shock, short circuit or fire)
   Do not spray water onto this unit nor use solvents such as benzene, thinner or alcohol for cleaning.
- Designed for indoor use.

### **GENERAL ADVICE BEFORE USE**

(There is a risk of electric shock and / or short circuit)

- \* Ensure the safety of the location in which the unit is to be used.
- \* Ensure the floor or ground is smooth and flat.
- \* Ensure at least 20 inch space all around the unit.
- \* When in position, LOCK the casters to prevent rolling.
- \* Never use the unit at more than 2° incline.
- \* If you use condensate pump, connect it to the housing in the condensate pump connecting box.
- \* You have to connect standard power cable.

If the power cable is damaged, it must be replaced by the manufacturer, its service agent or qualified person in order to avoid a hazard.

#### FOR MAXIMUM EFFICIENCY

- \* In airtight areas use vertical exhaust into ceiling.
- \* If possible, send exhaust out through a window or door to outside.
- \* Exhaust ducting should be no longer than 6.6 ft. for maximum efficiency.
- \* Ensure rated electricity supply.

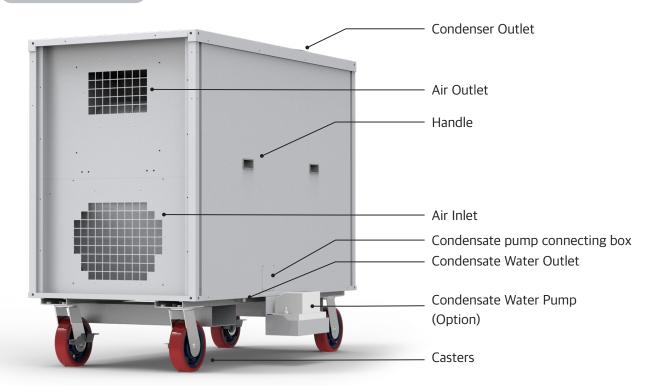


Waste electrical and electronic products must be disposed separately from normal household waste. When you dispose of such products, please recycle where facilities exist. Follow the guidance of your local authority and/or ask the shop where you purchased the product.

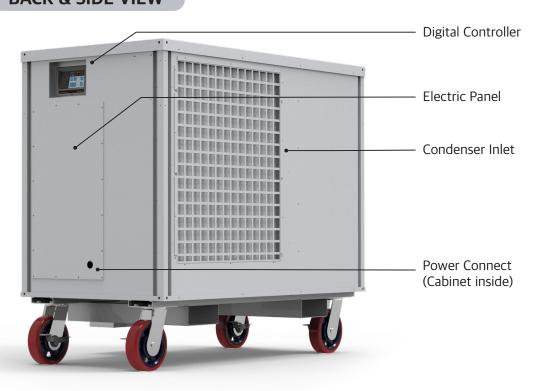


# **EXTERIOR DESCRIPTION**

### **FRONT VIEW**



### **BACK & SIDE VIEW**





# SPECIFICATIONS

MODEL			AHSC-42 220/1		
Canacity	Cooling	Btu/h	42,000 (12,300)		
Capacity	Heating	(W)	47,000 (13,800)		
Power su	ipply	-	220 V~, 60 Hz, 1 Ph		
Power	Cooling	kW	4.5		
Consumption	Heating	KVV	4.5		
Current	Cooling		21		
Consumption	Heating	Α	21		
Moisture	MAX	- gal/day	59		
Removal	AHAM		40.6		
Refriger	Refrigerant		R-410A / 6.62		
Dimensions (	Dimensions (WxDxH)		29.1 x 57.1 x 50.7		
Weigh	Weight		450		
	Cooling		65°F DB 60%RH ~ 113°F DB 40%RH		
Operating Range	Heating		50°F DB 70%RH ~ 81°F DB 50%RH		
	Dehumidifier		59°F DB 60%RH ~ 113°F DB 40%RH		
Power cord			STANDARD		

\*When operating at less then 72°F, the A.F. fuction can be activated occasionally.(Cooling mode)



### **CONTROL PANEL FUNCTIONS**



- ① Power: Use to power on / off.
- ② ∨ ∧ Button: Raises or lowers the setting temperature or sleep (off) time.
- ③ Mode: Use to select Cooling / Fan / Dehumidifier mode.
- 4 Heat: Use to select heating mode.
- ⑤ Off Timer: You can set the time to stop the unit. You can set 0~24 hours.

  Time intervals are 30 mins, up to 10 hours and then 1 hour between 10 and 24 hours.
- ⑥ Room: If the LED is on, the displayed temperature is for room temp.
- ⑦ Comp.: When the compressor is operating, the LED is on.
- ® Error : Error signal.
- (9) Display: Display Room temperature, and also the setting temp and sleep time if they had been set.



# MODE CHANGING METHOD





#### **X COOLING MODE**

If you press 'Mode' button. 'COOL' is displayed. then LED is on.





#### **※ FAN MODE**

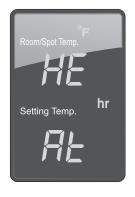
When the cooling is operating. If you press the 'Mode' button, 'FAN' is displayed. then LED is off.





#### **※ DEHUMIDIFICATION MODE**

When the fan is operating, If you press the 'Mode' button. 'DEHU' is displayed. then LED is on.





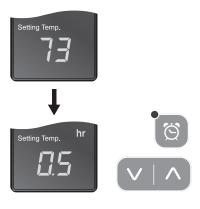
#### **\*\* HEAT MODE**

If you press 'HEAT' button. 'HEAT' is displayed. then LED is on.



### **HOW TO SET THE 'OFF' TIMER**

This function enables you to set the length of time you want the unit to operate.



 When unit is operating, press the 'Off Timer' button and set the length of time you want by pressing ∧ or ∨.
 Each time you press the button you will increase the 'time to off' period by 30mins. up to 10 hours, and 1 hour up to 24 hours.
 The display will show 0.5 for 30min and 1 for an hour. One and a half hours will show 1.5.



2. When you have finished setting the time period, the 'Off Timer' lamp will be on which indicates the unit is in sleep (Off Timer) mode.



3. If you press the 'Off Timer' button during its operation, the remaining time will be shown.



4. To CANCEL timing, press and hold 'Off Timer' button for 1 second. It will then switch the timer off automatically.



# TEMPERATURE CONTROL OPERATION



- When you turn ON, the setting temperature is displayed.
- You can change setting temperature.
- The display showing the set temperature will blink 3 times.

#### Display Room Temperature range & Setting range.

#### **COOLING MODE**

Mode Display range		Setting range
Room	32°F ~ 99°F	64°F ~ 86°F

Cooling operates when Room temperature is higher than set temperature.

Cooling stops when Room temperature is lower than set temperature.

#### **HEATING MODE**

Mode	Display range	Setting range
Room	32°F ~ 99°F	68°F ~ 99°F

Heating operates when Room temperature is lower than set temperature.

Heating stops when Room temperature is higher than set temperature.



### **SELECTION**

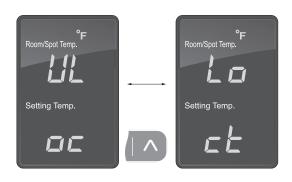
### **LOCK or UNLOCK**





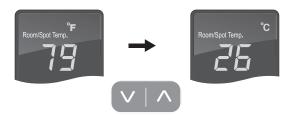


- If you press 'V' for 5 seconds when the unit is turned off you can control 'LOCK, UNLOCK' mode.
- When You set 'LOCK' there will be a dot '.' below the number in the screen.



 You can set 'UNLOCK' or 'LOCK' after pressing '^' button.

### °F or ℃



 If you want to change temperature unit °F ↔ °C, when unit is stopped, push '∨' and '∧' button simultaneously for 3 seconds.



# **'ERROR' and WARNING INDICATORS**

Error Code	Problem	Cause	Corrective Action
Room/Spot Temp.	High pressure	Blocked COND filter. Blocked / kinked exhaust duct. Ambient temperature is too high.	Clean the COND filter. Ensure exhaust duct is not blocked / kinked. Do not use the air conditioner if ambient temperature is higher than 113°F.
Room/Spot Temp.	Low pressure	Verify Electrical. Refrigerant may be low or empty.	Verify Power (Voltage / Amps). Check refrigerant level and refrigerant leakage. Clean Filter and Coil. Check Evaporator Filter. Check Evaporator Coil.
Room/Spot Temp.	Sensor	Temperature sensor is short-circuited or cut.	Exchange temperature sensor.
Room/Spot Temp.	Water full	Condensate pump is full.	Check the condensate pump or water hose is bent.
Room/Spot Temp.	Anti-Freezing alarm	Evaporator is below 25°F (-4°C) due to being used in a low ambient temperature area.	Do not use the unit in an ambient temperature less than 65°F (18°C). (Only cooling mode) Check refrigerant level.



# **ECONOMY MODE**

Model	Cond. Fan		Evap. Fan		Economy mode	Et a
Model	Economy	Normal	Economy	Normal	button (3 sec. continuous)	Etc.
HSC-12L	-	-	Stop after 30 sec.	Run	airflow	Fan integral type
HSC(O)-14/18	Stop	Run	Stop after 30 sec.	Run	airflow (High)	
HSC(0)-24A	Stop	Run	Stop after 30 sec.	Run	airflow (High)	
HWC-19	Stop	Run	Stop after 30 sec.	Run	airflow (High)	
HSC(O)-36B	Stop after 1 min.	Stop after 1 min.	Stop after 1 min.	Run	▲ (UP)	
HSC(O)-60	Stop after 1 min.	Stop after 1 min.	Stop after 1 min.	Run	▲ (UP)	
HSC-70	Stop after 1 min.	Stop after 1 min.	Stop after 1 min.	Run	▲ (UP)	
AHSC-12	Stop	Run	Stop after 30 sec.	Run	airflow	
AHSC-14	Stop	Run	Stop after 30 sec.	Run	airflow	
AHSC-18	Stop	Run	Stop after 30 sec.	Run	airflow	
AHSC-42	Stop	Run	Stop after 30 sec.	Run	▲ (UP)	
AHSC-60	Stop	Run	Stop after 30 sec.	Run	▲ (UP)	
AHSC-140	Stop after 1 min.	Stop after 1 min.	Stop after 1 min.	Run	▲ (UP)	

# TROUBLE SHOOTING

TROUBLE	CHECK	REMEDY	
	Power cable correctly connected	Connect cable correctly	
	Power button "OFF"	Press POWER button to "ON"	
NOT WORKING	Fuse (supply) blown	Exchange fuse in board	
	Breaker on switch board tripped	Check load capacity and reset	
	Ambient temp. too high	Check operating temp. range	
	Filter blocked with dust	Clean Filter	
POOR COOLING	Dust in heat exchanger	Clean heat exchanger	
	Obstacle against inlet side	Remove and allow 20" (50 cm) clearance	

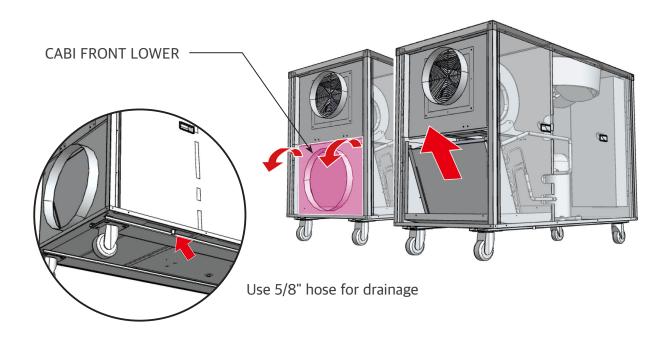


# **MAINTENANCE**

After cleaning, completely dry the inside of the unit by operating it on 'Fan only' mode.

#### **X CLEANING FILTER.**

- 1. After removing bolt, detach CABI FRONT LOWER.
- 2. Pull the filter up to detach.
- 3. Change the filter.
- 4. Reassemble in reverse order of disassembly.









# ACCESSORIES

		MODEL	
	ITEM	AHSC-42 220/1	DRAWING
COLD AIR	ALUMINIUM FILTER for Evaporator	<b>V</b>	
AIR INLET	EXHAUST CHAMBER Ø 400	$\square$	
AIR OUTLET	EXHAUST CHAMBER Ø 300	abla	
	HANDLE (2 pcs)	V	

**<sup>%</sup>** AHSC-42 220/1 is available both for indoor and outdoor use.

### WARRANTY

(Applicable to first retail purchaser only)

AIRREX unit gives the more reliable performance, comfort and durability the more they are used. They are built under a strict quality assurance regime which includes inspection both during and after production and exhaustive reliability testing.

In the unlikely event you have any problems, please contact your dealer or distributor. If the problem is as a result of a production fault or failure, repairs will be undertaken free of charge during the period of warranty subject to the following warranty conditions:

- 1. If the problem has been caused by customer error or misuse, abuse or damage, then all repairs will be charged for.
- 2. This warranty applies to your country.
- 3. Proof and date of purchase must be supplied.
- 4. Please complete the details below and keep this warranty in a safe place.
- 5. All transportation charges back to the dealer are at customer's cost. Keep all original packaging to facilitate return. Return to customer will be at dealer's cost (if genuine warranty claim).

DESCRIPTION	AIRREX HEAT PUMP			
MODEL	AHSC-42 220/1			
DATE OF PURCHASE	PRODUCT SERIAL NO.			
WARRANTY PERIOD	(	) Months	5	
DISTRIBUTOR	Name of Company			
DISTRIBUTOR.	Telephone No.			
Name :				
CUCTOMED DETAILS	Address :			
CUSTOMER DETAILS				
	Telephone:			

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