

3073615



AIR CONDITIONER

USER'S MANUAL

MODEL : HSC(0)-60(220/3)



HSC-60(220/3)



HSCO-60(220/3)

- 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. For use outside the local electricity supply should be checked by a qualified electrician.
- 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.





TABLE OF CONTENTS

■ SAFETY INSTRUCTIONS	3~4
GENERAL ADVICE BEFORE USE	4
■ EXTERIOR DESCRIPTION ······	5
SPECIFICATIONS ······	6
CONTROL PANEL FUNCTIONS	7
MODE CHANGING METHOD	8
■ HOW TO SET THE 'OFF' TIMER ······	9
■ TEMPERATURE CONTROL OPERATION ······	10
SELECTION ·····	11
'ERROR' and WARNING INDICATORS	12
■ FIRE ALARM & ERROR SIGNAL CONNECTION ······	13
ECONOMIC MODE & TROUBLE SHOOTING	14
CLEANING AND MAINTENANCE	15
ACCESSORIES	16
WARRANTY	20

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

\checkmark	Use a circuit breaker for the capacity. (It may cause fire and electric shock)	The following symbols are	e for your gu	idance:
\checkmark	Before cleaning, disconnect the unit. (Otherwise risk of electric shock)	🔀 = You must NOT.	V = You	ו MUST.
\times	Do not use a damaged power cable. (Short, fire or shock hazard)			
\times	Do not use an extension lead unless of the appro (Risk of fire and / or electric shock)	oved type.		
X	Do not place anything on top of the machine. (This could cause electric shock, malfunction or in	njury)		
X	Do not 'kink' or sharply bend the power cable no (The insulation may be damaged causing fire or e	r put any weight on it. electric shock)		

- Turn off control panel after turn off circuit breaker first. (Risk of electric shock and / or malfunction)
- \boxtimes 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.

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, level 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 excess play.

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



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.

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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 from 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. (There is a risk of electric shock and / or short circuit)
- \checkmark Designed for indoor use.

GENERAL ADVICE BEFORE USE

- * Ensure the safety of the location in which the unit is to be used.
- * Ensure the floor or ground is smooth and round.
- * Ensure you allow at least 20 inch air 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 with housing in the power box. (Electric panel)
- * You have to connect supply cord at least standard
 - If the supply cable is damaged, it must be replaced by the manufacturer,

its service agent or similarly qualified person in order to avoid a hazard.

FOR MAXIMUM EFFICIENCY

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

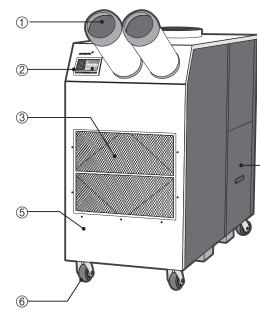


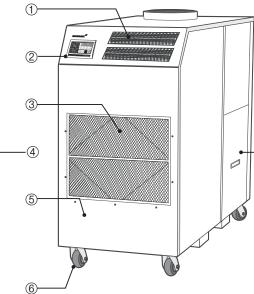
Waste electrical and electronic products must be disposed separately from normal household waste. When you dispose of such products, please recycle where facilities exist. Follow the guidance of your local authority and/or ask the shop where you purchased the product.

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EXTERIOR DESCRIPTION

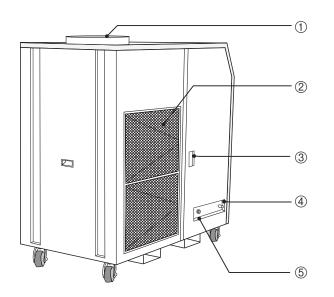
FRONT VIEW





- ① Cool Air outlet
- Digital controller
- ③ Evaporator filter
 Ambient air intake
- ④ Electric panel(Access by Authorised :
- Service personnel only)
- (Inside)
- 6 Casters (Front Lockable)

BACK & SIDE VIEW



- ① Condenser outlet
- ② Condenser Filter
- ③ Service Valve
- ④ Condenser water outlet

4

⑤ Pump Button



SPECIFICATIONS

MODEL			HSC(0)-60(220/3)		
Cooling ca	pacity	Btu/h (W)	60,000 (17,600)		
Power Su	ylqqı	-	220Vac 60Hz 3Ph		
Powe		kW	9.0		
Curre Consum		A	23.5		
Moisture	MAX	gal/day	69.7		
Removal	AHAM	gal/day	46.7		
Refrige	Refrigerant		R-410A / 7.72		
	Dimensions (WxDxH)		29.1 x 55.1 x 59.7		
Weigl	Weight		Weight Ib 550		550
Operating		Cooling	68°F DB 60%RH ~ 113°F DB 40%RH		
Range	De	ehumidifier	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.
- \bigcirc \lor \land Button : Raises or lowers the setting temperature or sleep (off) time.
- ③ Mode : Use to select Cooling / Fan / Dehumidifier mode.
- ④ Off Timer : To set the length of time, once turned on, that you wish the cooler to run for. You can set 0~24 hours. Time intervals are 30 mins. up to 10 hours and then 1 hour between 10 and 24 hours.
- ⑤ Room : If the LED is on, the displayed temperature is for room temp.
- 6 Comp. : When the compressor is operating, the LED is on.
- ⑦ Error : Error signal.
- (a) Check : If water full or Aligh Drain Tank is checking. The LED is on.
- (9) Display : Display Room temperature, and also the setting temp and sleep time if they had been set.

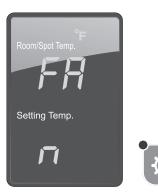


MODE CHANGING METHOD



% 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.



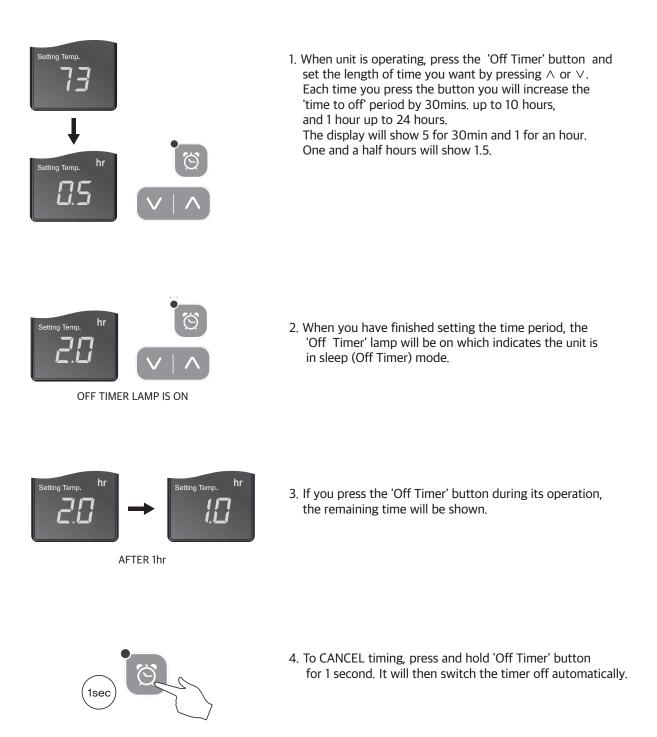
※ DEHUMIDIFICATION MODE

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



HOW TO SET THE 'OFF' TIMER

This function enables you to set the length of time you want the unit to operate. You can set the time period from 30min. to 24 hours in 30min. and 1 hour increments.





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 more than set temperature.

Cooling stops when Room temperature is less than set temperature.

SELECTION

SPOT or ROOM MODE

LOCK or UNLOCK



To change the temperature of the entire room, select Spot or Room mode. For 'targeted' cooling of machinery servers or people etc select 'spot mode'. Applicable only when cooling mode.

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- If you want to display room temperature, when unit is operated, push 'mode' and '∨' button simultaneously for 3 seconds.
- Light be on the 'Room LED' when room mode set.



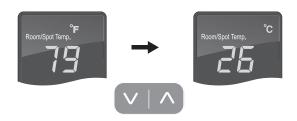
Setting Temp

- If you press '∨' for 5 seconds when the unit is turned off you can control 'LOCK, UNLOCK' mode.
- When You set 'LOCK' there will be '.' below the number in the screen.
- You can set 'UNLOCK' or 'LOCK' after pressing '^' button.

°F or ℃

Room/Spot Temp.

Setting Temp.



 If you want to change temperature unit °F ↔ °C, when the 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 air filter Blocked / kinked exhaust duct Ambient temperature is too high	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	Clean Filters and Coils Verify Power (Voltage/Amps) Check Filters Evaporator/Condenser Check Evaporator/Condenser Coils Check refrigerant level and/or refrigerant leak.
Room/Spot Temp.	Sensor	Temperature sensor has an electric short.	Exchange temperature sensor
Room/Spot Temp.	Compressor	Compressor inoperative	Check wiring Check capacitor Check Magnet switch Check compressor
Room/Spot Temp.	Cond Fan Motor	Cond Fan motor inoperative	Check wiring Check capacitor Check Magnet switch Check Cond Fan Motor
Room/Spot Temp.	Eva Fan Motor	Eva Fan motor inoperative	Check wiring Check capacitor Check Magnet switch Check Eva Fan Motor
Room/Spot Temp.	Water full	Condensate tank is full	Check the water pump or water hose bended
Room/Spot Temp.	Fire alarm signal	Fire alarm signal is received from Fire alarm system.	Reset unit by pushing and holding the "OFF TIMER" button for 5 seconds.
Room/Spot Temp.	Anti-Freezing alarm	Evaporator is below 25 °F (−2 °C) due to being used in a low ambient temperature area.	Do not use the unit in an ambient temperature less than 72°F (22℃). Check refrigerant level.
Room/Spoi Temp.	Reverse phase	The 3 phase circuit is not correctly connected.	Check wiring



FIRE ALARM & ERROR SIGNAL CONNECTION

Normal Condition

⊖ _____ Open

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< FA1

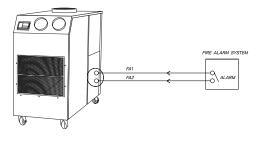
FA2

FIRE ALARM

Fire Alarm Signal Input

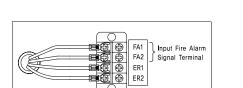
FA1

FA2



Input Terminal FA1 and FA2

When the signal from the fire alarm system is received, the unit turns off and does not operate until the unit has been RESET.

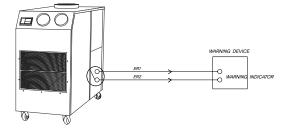


Closed

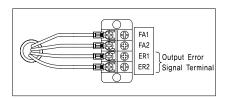
Connecting the fire alarm wire from fire alarm system

- 1. Open the power box cover.
- 2. Use recommended fire alarm wire size from 16 AWG to 26 AWG for a solid wire, or 16 AWG to 22 AWG for a stranded wire with ring terminal for #5 stud size.
- 3. Connect fire alarm to terminal FA1 and FA2.

ERROR SIGNAL CONNECTION







Output Terminal ER1 and ER2

The unit will output an Error signal (normal open dry contact) when an "Error" has occurred, to show what the failure is on the unit.

Connecting Error Signal with warning device

- 1. Open the power box cover.
- 2. Use recommended error signal wire size from 16 AWG to 26 AWG for a solid wire, or 16 AWG to 22 AWG for a stranded wire with ring terminal for #5 stud size.
- 3. Connect the end of the error signal wire to ER1 and ER2, and the other end to the compatible with varoius warning devices such as alarm speaker, light indicators, and etc.



ECONOMIC MODE

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

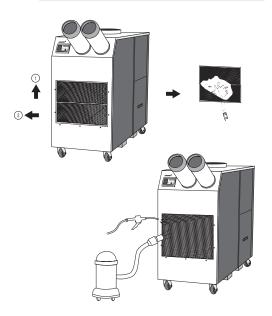
TROUBLE SHOOTING

TROUBLE	СНЕСК	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	
POOR COOLING	Filter blocked with dust	Clean Filter	
	Dust in heat exchanger	Clean heat exchanger	
	Obstacle against inlet side	Remove and allow 20"(50cm). clearance	



CLEANING AND MAINTENANCE

CLEANING THE AIR FILTERS



- 1. To remove filters, slide up a little ① and pull towards you ②.
- 2. Clean the filters with water or compressed air.
- 3. Clean evaporator and condenser units with a vacuum cleaner or compressed air.



After cleaning, completely dry the inside of the unit by operating on 'Fan Mode'.

MANUAL PUMPING

MAINTENANCE



When you keep the unit, it is necessary to empty condensate water in tank. So press pump button to empty water in tank.



ACCESSORIES

ITEM				MODEL HSC(O)-60 / 70	DRAWING
	DUCT Diam.		1.6ft.	$\overline{\checkmark}$	
	DUCT	6.9inch.	9.8ft.	OPTION	
COLD AIR OUTLET	DUCT COVER (FINISHING COLLAR)				
	FILTER CASSETTE		Ξ		
HOT AIR EXHAUST	FILTER CASSETTE		Ē		



MEMO



MEMO



MEMO

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 AIR CONDITIONER			
MODEL	HSC(O)-60(220/3)			
DATE OF PURCHASE	PRODUCT SERIAL NO.			
WARRANTY PERIOD	() Months	5	
DISTRIBUTOR	Name of Company			
	Telephone No.			
		-		
	Name :			
CUSTOMER DETAILS	Address :			
	Telephone :			

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