

AIRREX AIR CONDITIONER

USER'S MANUAL

HSC-36/60/70

- ► Thank you for purchasing an AIRREX AIR CONDITIONER. BEFORE operation please read this user's manual carefully.
- ► Keep this manual readily available.
- ▶ It is ESSENTIAL that you read the 'NOTES ON SAFETY' carefully before use and follow them at all times,
- ► This Air Conditioner is specified for use on the rated voltage power supply. For use outside you must check that the local electricity supply is the same by a qualified electrician.
- ► The Warranty form is on Page 16, Please complete it now and keep in a safe place,
- We have a policy of continual improving to our products, The contents (features and specifications) in this manual are therefore subject to change without notice,

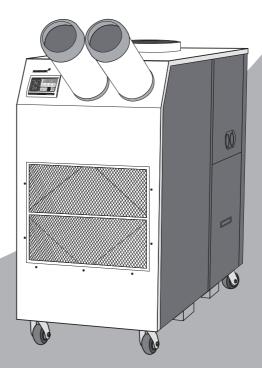








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SAFETY INSTRUCTIONS

The following instructions are for ensuring the 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.

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 $\boxed{}$ = You must NOT. $\boxed{}$ = You MUST.

WARNING

- Use a 220V / 60Hz / 1 phase (HSC 36&60), 220V&480V / 60Hz / 3 phase (HSC 60/70) power supply only.

 (Wrong supply may cause a fire and / or shock hazard)

 Do not use a damaged power cable.

 (Short, fire or shock hazard)
 - Before cleaning, turn off circuit breaker, (Otherwise risk of electric shock)
 - Do not place anything on top of the machine.
 (This could cause electric shock, malfunction or injury)
 - Do not use an extension lead unless of the approved type. (Risk of fire and / or electric shock)
 - Do not 'kink' or sharply bend the power cable nor put any weight on it, (The insulation may be damaged causing fire and/ or electric shock)
 - Do not turn off by circuit breaker, Always turn off at control panel first, (Risk of electric shock and / or malfunction)
 - Do not use this cooler 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 cooler for easy reference.





CAUTION

- Do not place cooler on uneven, unstable or inclined surface. (This could cause malfunction)
- When storing the cooler, ensure that it is kept in a dry, cool place. (To prevent corrosion and malfunction)
- If not being used for some time or if lightening is present, always unplug from power, (To prevent risk of electric shock, short circuit or fire)
- Do not spray water on to the cooler nor use solvents such as benzene, thinner or alcohol for cleaning,

 (There is a risk of electric shock and / or short circuit)
- Designed for indoor usage.

GENERAL ADVICE BEFORE USE

- · Ensure the safety of the location in which cooler is to be used.
- · Ensure the floor or ground is smooth and sound.
- · Ensure you allow at least 2 feet air space all around the cooler.
- · When in position LOCK the casters to prevent rolling.

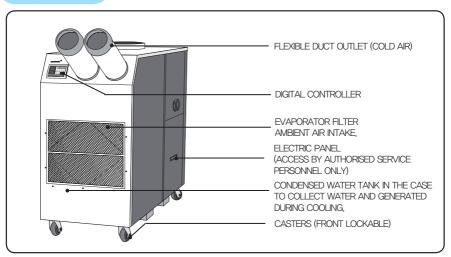
FOR MAXIMUM EFFICIENCY

- · 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 maximum efficiency.
- · Ensure correct electricity supply.

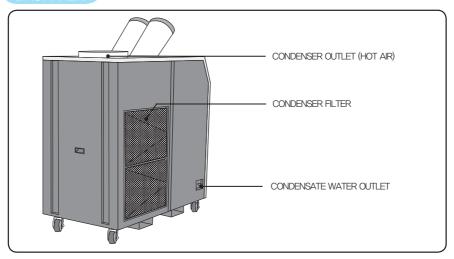


EXTERIOR DESCRIPTION

FRONT VIEW



BACK VIEW





CONTROL PANEL FUNCTIONS



① Power: Use to power On / Off.

②▼▲: Raises or lowers temperature and/ or sleep (off) time.

③ Cool : Use to select cooling 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 30mins. up to 10 hours and then 1 hour between 10 and 24 hours.

⑤ Remote: From the long distance, you can control the machine by wired remote control,

⑥ Room: If the LED is On, the displayed temperature is for Room temp, If the LED is Off, the displayed temperature is for spot temp.

7 Comp.: When the compressor is operating, the LED is On.

® Error: Error signal (E1: High Pressure, E2: Low Pressure, E3: Sensor, AF: Eva Freezing)

Water Full: Red light indicates 'Tank Full'. The compressor will shut off
 automatically, Empty tank and replace in position to resume operation.

® Display : Display Room/Spot temperature, the setting temp and sleep time in case of setting them. When the user set the sleep timer, 'hr' will be turned on.
(Display of 'LO': under the 32'F. Display of 'HI': over the 99'F)



OPERATION

RUNNING & STOP

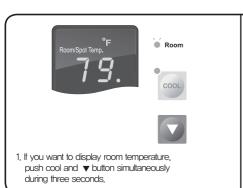


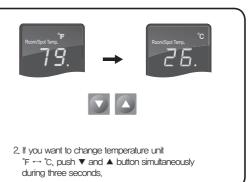
- 1. START BY PRESSING THE 'POWER' BUTTON.
 - · Cooler will start up automatically,
 - · To STOP the unit, press the 'POWER' button once again.
- If you wish to operate on fan only, press the 'COOL' button. To resume cooling, press the 'COOL' button again.

(Note: There is a 3 minute delay when switching functions to protect the compressor)

SELECTION of AREA/ROOM or SPOT COOLING

To reduce the temperature of the entire room select 'Area/Room'. For 'targeted' cooling of machinery, servers, or people etc, select 'Spot Cooling'.







TEMPERATURE CONTROL OPERATION



- 1. When power is ON, the setting temperature is displayed. Default of setting temperature is as below.
 - · 50°F in Spot Mode.
 - · 60°F in Room Mode.







2. When you push either ▲ or ▼ button, the setting temperature is changed.







3. The display showing the set temperature will blink 3 times

4. Display range & Setting range.

Mode	Display range	Setting range
Room Temp	32°F∼99°F	60°F∼86°F
Spot Temp	32°F∼99°F	50°F∼86°F

Cooling operates when Room/Spot temperature is more than set temperature.

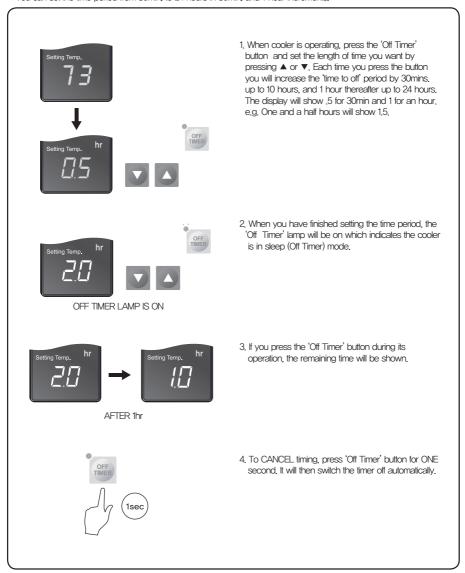
Cooling stops when Room/Spot temperature is less than set temperature.





HOW TO SET THE 'OFF'TIMER.

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







'ERROR' and WARNING INDICATORS

The machine's safety devices will automatically signal any problems via the display window on the control panel. The information below shows how to read these signals.



Water Full

1. WATER FULL- Display shows "FU"

When the water container is full, "FU" is displayed and the LED "Water Full" light will be on.



Error

2 HIGH PRESSURE

'E1' is displayed and the 'Error' LED will be on when the pressure of the compressor is too high and the high pressure switch is open.



Error

3. LOW PRESSURE

'E2' is displayed and the 'Error' LED will be on when the pressure of the compressor is too low.



Error

4. SENSOR PROBLEM

If the thermistor is short circuited or cut, 'E3' is displayed and the 'Error' LED will be on.



Error

5, ANTI FREEZING

When the temperature of the evaporator is below -2°C, 'AF' is displayed and the 'Error' LED will be on.

▶ No. 6~8 is applied to the model HSC-60/70



Erro

6, COMPRESSOR PROBLEM

When the over current from compressor is detected, 'E4' is displayed and the 'Error' LED will be On.



Error

7. FAN MOTOR PROBLEM

When the over current from fan motor is detected, 'E5' is displayed and the 'Error' LED will be On.



Error

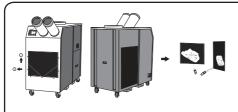
8. BLOWER MOTOR PROBLEM

When the over current from blower motor is detected, 'E6' is displayed, the 'Error' LED will be On.

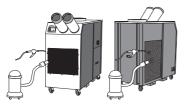


CLEANING AND MAINTENANCE

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.

MAINTENANCE



1. After cleaning, completely dry the inside of the unit by operating on 'Fan Mode' only for 3 to 4 hours,



TROUBLE SHOOTING

TROUBLE	CHECK	REMEDY	
NOT	Cord correctly connected	Connect cord correctly	
WORKING	POWER button "OFF"	● Press POWER button to "ON"	
	Fuse (supply) blown	Exchange fuse in board	
	Breaker on switch board tripped	Check load capacity a'nd reset	
	Ambient temp, too high (over 104°F)	● Use only below 104°F	
POOR	Filter blocked with dust	● Clean Filter	
COOLING	Dust in heat exchanger	Clean heat exchanger	
	Obstacle against inlet side	Remove and allow 20inch clearance	
	Ambient temp, too high (over 104°F)	● Use only below 104°F	

ACCESSORIES

ITEM.		MODEL	DDAMINIO		
	ITEM		HSC-36/60/70		DRAWING
	DUCT	Diam.	1.6ft.	$\overline{\checkmark}$	
COLD	DOCT	6,9inch.	9.8ft.	OPTION	
OUTLET	DUCT COVER (FINISHING COLLAR)				
	FILTER CASSETTE		≣	\square	
HOT AIR EXHAUST	FILTER CASSETTE		=	Ø	





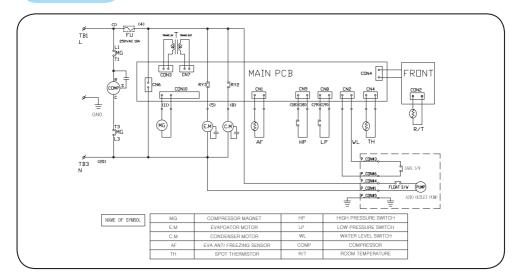
MODEL		HSC36	HSC60)	HSC70
Cooling capacity	BTU/h kW	36,000 (10.6)	60,000 (17.6)			84,000 (24.6)
Power Supply		220Va.c. 60Hz 1Ph.	220Va.c. 220Va.c. 480Va.c. 60Hz 1Ph., 60Hz 3Ph., 60Hz 3Ph.			480V 60Hz 3Ph.
Dimensions	inch.	29.1 X 33 X55.9		29.1 X 55.1 X 58.7		
Weight	lb	396.5			550	
Evaporator Air Flow	ft³/min	943			1.940)
Power Consumption	kW	4.69		8.2		11.5
Current Consumption	Amp.	21,3	38	21.5	9.86	13.8
Refrigerant (R22)	lb	5.5		9,25		10.57
Air Filter		Non Fabric filter				
Safety Devices		 High Pressure Switch Fan motor protection Auto 'Full Tank' shut off. Low pessure switch 3 min. delay timer. Thermostat for compressor 				
Operating Range		68°F DB 60% RH∼ 104°F DB 40% RH				
High Pressure	kgf/cm²/psig	26/370				
Low Pressure	kgf/cm²/psig	13/185				
Max, Duct Length (Either hot or cold, not		65.6				
both together in use)	Hot Duct	32,8				
FUSE in power Box			250 V	a.c. 5ar	np	



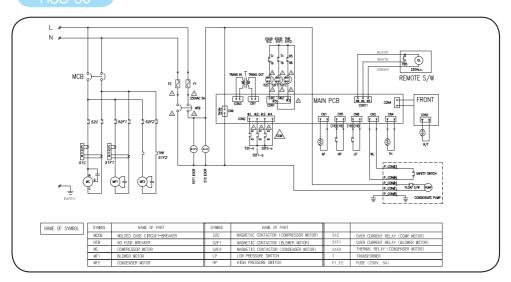


WIRING DIAGRAM

HSC 36

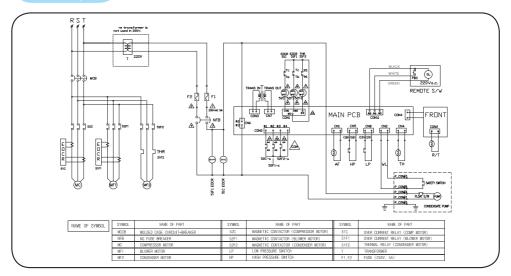


HSC 60



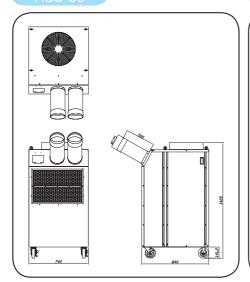


HSC 60/70

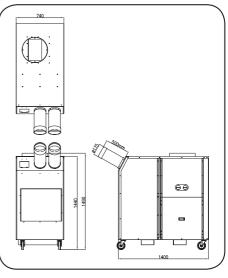


DRAWING

HSC 36



HSC 60/70



WARRANTY

(Applicable to first retail purchaser only)

AIRREX AIR CONDITIONERS give 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:

- 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.
- All transport charges back to the dealer are at the customers cost, Keep all original packaging to facilitate return, Return to customer will be at dealers cost (if genuine warranty claim).

DESCRIPTION	AIRREX AIR CONDITIONER		
MODEL	HSC-36/60/70		
DATE OF PURCHASE	PRODUCT SERIAL NO:		

Warranty Period	() Months	
DISTRIBUTOR	Name of Company	
DISTRIBUTOR	Telephone No.	

	Name:
CUSTOMER DETAILS	Address:
	Telephone:

USA DISTRIBUTOR
AIRREX USA
P.O BOX 340
HEWITT, TEXAS 76643

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• Designs and specifications of products are subject to change without prior notice for the improvement of products.