

# AIRREX<sup>O</sup> AIR CONDITIONER

## USER'S MANUAL HWC-19P

Water-cooled



Thank you for purchasing the unit. Before operation, please read this user's manual carefully.

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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.

- It is essential that you read 'SAFETY INSTRUCTIONS' carefully before use and follow them at all times.
- Keep this manual on hand for reference.
- This unit is specified for use on the rated voltage power supply.
- ► 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.

## SAFETY INSTRUCTIONS

- These are contents for keeping the safety and preventing the property damage. Please read and use correctly.
- Precautions on this page are for the safe and correct use of the unit and for the preventing a danger and damage of the operator or others. With regard to the contents, these are classified into <WARNING> and <CAUTION>. These are important for the safety, so please observe them without fail.

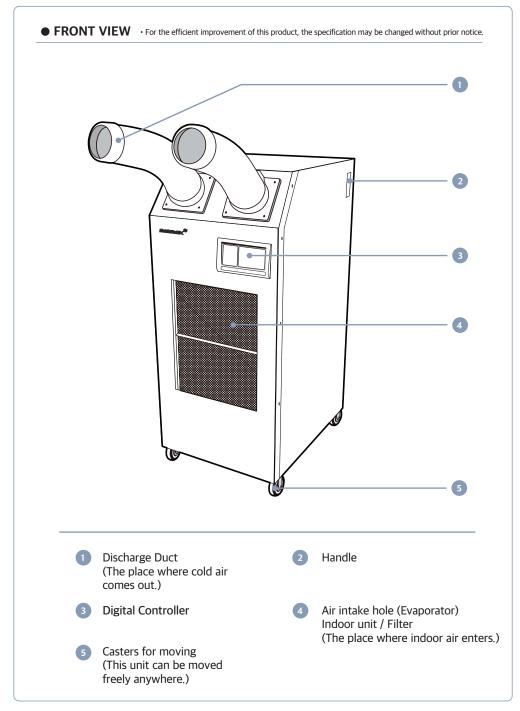


· After reading carefully, keep it where any user may see it anytime.

## PRECAUTIONS FOR USE

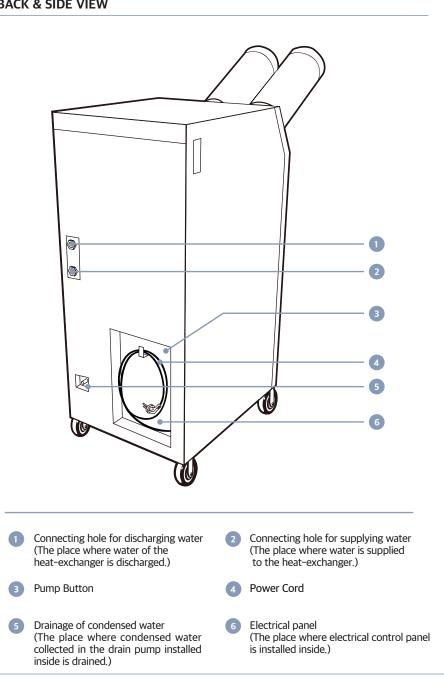
- Rated voltage of this product is 115 V~, 60 Hz, 1 Ph. Connect to the rated power source and the earthed outlet.
- 2. Make sure of the safety of the place to be used.
- 3. Do not touch the power cord with a wet hand.
- 4. When moving this product, do not lean more than 30° or topple it.
  (When operating, keep it horizontal, or in unavoidable situation, keep it less than 2°.)
- 5. Do the exclusive power circuit for the air conditioner.
- 6. Do not pull the power cord. (If the power cord is damaged, a fire or electric shock may be caused.)
- 7. Use the standardized fuse without fail.
- 8. Operate efficiently the unit under the shadow, and avoid operation in the temperature higher than 113°F.
- 9. Keep space more than 20 inch around the air-intake so that a smooth in-taking of air can be done.
- 10. As dust in the filter or the heat-exchanger deteriorat the cooling, do clean the filter of the heat-exchanger regularly.
- 11. When using the product, use it indoor place free from direct sunlight.
- 12. Do not use this product as a means of moving other heavy goods or as a carrier of man.
- 13. Do not insert any foreign substance (can, bottle of drink) into cold air discharge hole. It may damage the product.
- 14. Do not put an obstacle in front of the air-intake hole. (Trouble may be caused.)
- 15. The optimum distance between the worker and the discharge duct is less than 80 inch.
- 16. When use, fix the locking device of front wheel at ON. (For release, press OFF.)
- 17. Do not use it, when water supply is stopped. (When water stoppage, re-operating is possible up to 2 times, and in case of water stoppage or shortage, the error E1 is shown and the operation will be stopped.)
- 18. If the water supply is low, the product cannot be normally operated, and main parts may be damaged.
- 19. Discharged water is in state that removed indoor heat is added to the pure tap water, thus the waste heat can be re-used for other purpose. (But, it cannot be used as drinking water.)

## **EXTERIOR DESCRIPTION**



### **EXTERIOR DESCRIPTION**

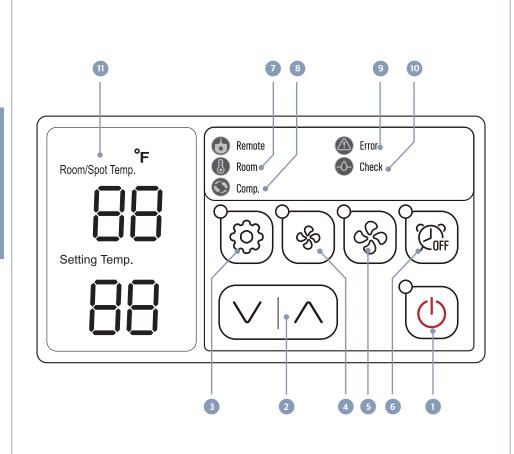
#### • BACK & SIDE VIEW



## SPECIFICATIONS

Ν	IODEL		HWC-19P		
Cooling Capacity		Btu/h (W)	18,200 (5,300)		
Power Supp	Power Supply		115 V~, 60 Hz, 1 Ph		
Power Consumptic	n	kW	1.5		
Current Consumptic	n	A	12.6		
Dehumidification	Max.	gal/day	13		
Denamication	Nom.	gal/day	9		
Refrigeran (R-410A)	Refrigerant (R-410A)		1.32		
Dimensions (W x D x H)		inch	18 x 23 x 43		
Weight		lbs	163		
Operating Conditions			65° ~ 115°F (18 ~ 46°C)		
Power Cord			LCDI 5-15		

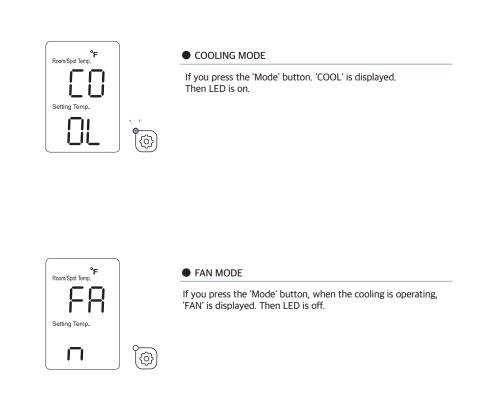
### **CONTROL PANEL FUNCTIONS**



## **CONTROL PANEL FUNCTIONS**

NAME	DESCRIPTION			
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 / Dehumidification mode.		
4 Fan Low	\$	Controls fan low speed.		
5 Fan High	<b>%</b>	Controls fan high speed.		
6 Off Timer	COFF	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.		
7 Room	8	If the LED is on, the displayed temperature is for room temp.		
8 Comp.	$\bigcirc$	When the compressor is operating, the LED is on.		
9 Error		Error signal.		
10 Check		If water is full or Align drain tank needs to be checked, the LED is on.		
1) Display	landar tag <sup>4</sup> 88 Jacas Inde 88	Display room temperature, and also the setting temperature and sleep time if they had been set.		

## **MODE CHANGING METHOD**





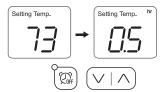
#### DEHUMIDIFICATION MODE

If you press the 'Mode' button, when the fan is operating, '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.





 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 30 mins. up to 10 hours, and 1 hour up to 24 hours. The display will show 0.5 for 30 min and 1 for an hour. One and a half hours will show 1.5.

**STEP 2** 



OFF TIMER LAMP IS ON

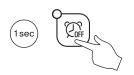
When you have finished setting the time period, the 'Off Timer' lamp will be on which indicates the unit is in sleep (Off Timer) mode.

#### **STEP 3**



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

#### CANCEL



4. To cancel 'Off Timer', 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
Spot	52 F ~ 99 F	34°F ~ 86°F

Cooling operates when room temperature is higher than set temperature.

Cooling stops when room temperature is lower than set temperature.

## SELECTION

#### • SPOT or ROOM MODE

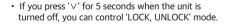


To change the temperature of the entire room, select 'Room mode'. For targeted cooling of machinery servers or people etc select 'Spot mode'. Applicable only when cooling mode.

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

#### • LOCK or UNLOCK



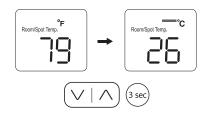


• When You set 'LOCK' there will be a dot '.' below the number in the screen.

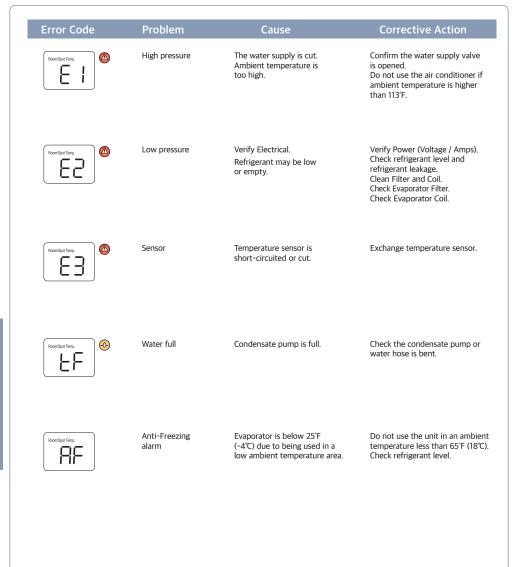


• You can set 'UNLOCK' or 'LOCK' after pressing ' $\wedge$ ' button.

#### TEMPERATURE UNIT



 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

## **ECONOMY MODE**

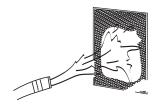
Model	Evap. Fan		Cond. Fan		Economy mode	Etc.
Model	Economy	Normal	Economy	Normal	(Push the button for 3 sec.)	EIC.
HSC-12P	Stop after 30 sec.	Run	-	-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Fan integral type
HSC-14P/18P/24P	Stop after 30 sec.	Run	-	-	Ś	Fan integral type
HWC-19P	Stop after 30 sec.	Run	Stop	Run	(High)	
HSC-36P/60P/70P	Stop after 1 min.	Run	Stop after 1 min.	Run	$\frown$	
AHSC-14P/18P	Stop after 30 sec.	Run	-	-	Ś	Fan integral type
AHSC-42/60	Stop after 30 sec.	Run	Stop	Run	$\bigcirc$	
AHSC-140P	Stop after 1 min.	Run	Stop after 1 min.	Run	$\frown$	

## **TROUBLE SHOOTING**

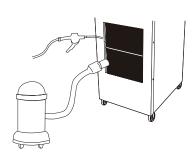
Symptom	Check Points	Measures to be Taken
The operation	- Is the power plug pulled out?	- Insert the plug.
is not done.	- Is the operation stopped?	<ul> <li>Press ON/ OFF switch, and confirm the lamp condition.</li> </ul>
	- Is the fuse cut?	- Change the fuse of electric panel.
	- Is the circuit breaker fallen?	<ul> <li>After confirming the load capacity, raise the circuit breaker of the distribution panel.</li> </ul>
	- Is the surrounding temperature too high?	- Use it at the place of 113°F and lower. (Higher than 113°F)
	- Is the voltage too low?	<ul> <li>Request an electricity construction</li> <li>company for the available rated voltage</li> </ul>
	- Is the filter clogged with dust?	- Clean the filter (Washing with water is OK.)
	<ul> <li>Although the filter is clean, is the heat- exchanger clogged with much dust?</li> </ul>	- Clean the heat-exchanger.
The cooling is not well done.	<ul> <li>Is there any obstacle in the in-taking part?</li> <li>Is the set-temperature correctly set?</li> </ul>	<ul> <li>Remove the obstacle. (Farther than 8inch.)</li> <li>For cooling, adjust the set temperature</li> </ul>
not well done.	is the set temperature correctly set:	lower than the ambient temperature.
	- Is the water supply cut?	- Confirm the water supply valve is opened.
	<ul> <li>Right after the operation stops, is the unit started to operate instantly?</li> </ul>	<ul> <li>Confirm that after 3 minutes, the compresso is normally operated and the cold air is being discharged.</li> </ul>
When white vapor is generated during operation.	- Is the unit being used where humidity is high?	<ul> <li>If the humidity is high, much air is discharged and white vapor may be emitted.</li> </ul>
When dew is formed at the discharging hole.	- Is the room temperature too high?	<ul> <li>It is a phenomenon that the moisture in the air is changed into dew, and this is not abnormal.</li> </ul>

## **CLEANING AND MAINTENANCE**

#### • CLEANING THE AIR FILTERS



• Cleaning of filter : Detach the filter from the A/C, and clean it with compressed air or water.



• Cleaning of heat-exchanger : Clean dust attached to the heat-exchanger with compressed air or a vacuum cleaner.

#### **MAINTENANCE**



1. After cleaning, dry well the inside by blowing operation for 3~4 hours.



2. After stopping operation and pulling out the power cord, do wind well and fix the cord.



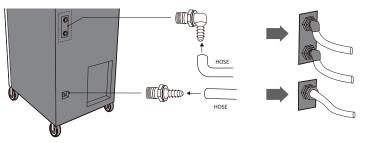
- 3. Note that moisture and dust not to enter into the unit.
- % When it is not used, close the valve of the water supplying line, and discharge the water in the line, and keep it after being dried.

#### SELECTION OF THE INSTALLATION PLACE

• As the air conditioner should be connected to the tap water tube, its installation near the hydrant is good. Install it on the even and stable place.

#### HOW TO CONNECT PIPES

1. Connect the nipple at the water in-taking hole and the water discharge hole of the backside of the air conditioner. At this time, wind the Teflon tape at the thread part and fasten it the main body.

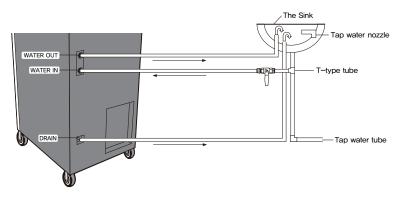


2. Unfasten the nut and ring at the nipple and connect it to the hose, and insert the hose into the nipple and fasten it by using the nut. (When connecting the hose, make the cut surface of the hose even.)

3. Connect the water in-taking hole to the tap water tube (or a pressuring pump), and the water discharge hole to the drain hole.

(Pay attention for not changing the water in-taking hole with the discharging hole.)

4. Connect the discharging hose with the condensed water discharge hole and to the draining hole.



5. Once the pipe connection is finished, open the valve of water supply line so that water is supplied. At this time, as water is discharged only when the air-conditioner is operated, check whether water is discharged from the drain hole.

### **HOW TO INSTALL & PRECAUTIONS**

#### CHECK POINTS AFTER INSTALLATION

- After confirming the state of pipe connection, check whether a leakage is at the connection part.
- Confirm whether the connection of the drain hose is good.
- Confirm whether the earth line is good.

#### PRECAUTIONS FOR INSTALLATION

1. Do the earth line work in good state without fail.

(Do not connect it to the gas pipe, water pipe or telephone line.)

- 2. Connect the power source of the air-conditioner to the exclusive cable and the correct voltage.
- 3. Do not connect the power line in the middle or extend it. (Electric shock or fire may be caused.)
- Do not install the unit at the place of an inflammable gas leakage or heat of fire.
   (If the leaked gas is accumulated around the air-conditioner, a blast or fire may be caused.)
- 5. Note that if the drain hose is unstably set, water cannot be drained.
- 6. The standard pressure of water in-taking of this product is 28~71psig. When the pressure exceeds the standard, install a decompression device, and in case of lower pressure than the standard, install a separate device (Pressure pump, etc.).
- 7. When installation, the standard part supplied with the air-conditioner should be installed.
- 8. For piping for water in-taking or discharging, a hose may be used for a short distance (3~33 ft), and for a long distance more than 33 ft, a proper material (Matchable, X-L pipe) should be installed in principle.
- 9. Connect the pipe correctly not the in-take direction to be changed with the discharging one.
- 10. The exposed in-taking pipe should be thermally insulated. (Condensation prevention of in-taking water and the prevention of freeze break in winter season.)

## ACCESSORIES

ITEM				DRAWING	
	DUICT	Diam.	1 ft	0	
	DUCT	5 inch	10 ft	OPTION	
	DUCT COVER			0	
AIR OUTLET -	DUCT LOWER			0	
	DUCT BASE			0	
		MINIUM FILTI CASSETTE	ĒR	0	

#### • MANUAL PUMPING



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



(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 Water-cooled AIR CONDITIONER				
MODEL	HWC-19P				
DATE OF PURCHASE	PRODUCT SERIAL NO.				
WARRANTY PERIOD	( ) Months				
DIOTDIDUTOD	Name of Company				
DISTRIBUTOR	Telephone No.				
	Name :				
<b>CUSTOMER DETAILS</b>	MER DETAILS Address :				

Distributed by : Airrex USA 2031 Exchange Parkway, Waco, TX 76712

Telephone :

TEL : 888-535-8841 E-mail : sales@tempair.com Website : www.airrexusa.com

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