9 Operating Instructions















• Use this air conditioner under the following conditions

Cooling	Mode	-		
			Un	it in °C
DBT: Dry Bulb Temp	Indoor		Outdoor	
WBT: Wet Bulb Temp	DBT	WBT	DBT	WBT
Maximum Temperature	32	23	43	26
Minimum Temperature	16	11	16	11

-	Heat Pum	n Mor	iai 📙			_
L	Ticar T uni	p wior				
l				Un	it in °C	
l	DBT: Dry Bulb Temp	Indoor		Outdoor		
	WBT: Wet Bulb Temp	DBT	WBT	DBT	WBT	
	Maximum Temperature-Cooling (Maximum Temperature-Heating)	32 (30)	23 (-)	43 (24)	26 (18)	
	Minimum Temperature-Cooling (Minimum Temperature-Heating)	16 (16)	11 (-)	16 (-5)	11 (-6)	

Notes

Notes If the unit is not going to be used for an extended period of time, turn off the main power supply. If it is left at the ON position, approximately 2.5 W of electricity will be used even if the indoor unit has been turned off with the remote control.

If operation is stopped, then restart immediately, the unit will resume operation only after 3 minutes

Operation Details

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- COOL Cooling Operation
- To set the room temperature at your preference cooling comfort.
- AUTO Automatic Operation
- Sense indoor temperature to select the optimum mode. Temperature is not displayed on the remote control
- during AUTO operation

- DRY Soft Dry Operation
 A very gentle Cooling Operation, prior to dehumidification. It does not lower the room temperature
- During Soft Dry operation, the indoor fan operates at Low fan speed.

HEAT – Heating Operation (for Heat Pump Model only)

- Heat is obtained from outdoor air to warm up the room. When the outdoor ambient air temperature falls, the heating capacity of the unit might be
- reduced. Defrosting Operation
- Depend on the outdoor temperature, the operation occasionally stops to melt the frost on the outdoor unit

- FAN Air Circulation Operation

 (for Cooling Model only)

 • When the room temperature reaches the set temperature, operation commences at Low airflow
- volume. It stops when the room temperature drops to $2^{\circ}C$ below the set temperature. (It is useful when using a heater).



When both timers are used together, the TIMER
 mode indicator on the indoor unit remains it even
 when the operation is stopped by the OFF-TIMER.

CONVENIENCE OPERATION

- Powerful Mode Operation
 To obtain the set temperature quickly.
 Press [6].
 Powerful mode indicator (orange) on the indoor
 - with the second second
- Powerful Mode Operation Details

- owerful Mode Operation Details The changes of the temperature and airflow volume are automatic. The remote control display remains unchanged.
- If operation mode button dspay termina directarged.
 If operation mode button is pressed, powerful operation will be cancelled.
 During FAN Air circulation operation, the powerful operation are not available.
 (cooling model only)

Powerful Mode Operation	Temperature	Airflow volume
COOL / DRY	3°C lower than set temp.	Super High
HEAT (for Heat Pump model only)	3°C higher than set temp.	Automatic

Quiet Mode Operation To provide quiet operation Press 7.

- X Quiet mode indicator on the indoor unit will light
- up.

 To cancel this operation, press once more
- Operation Details
 Air flow sound will reduce during operation.
- Ionizer Mode Operation
 Produce negative ion for fresh air.
 Press [8].
 X Ion mode indicator on the indoor unit will light up.
 To cancel this operation, press once more.

- Operation Details
 Air conditioner ON:
 Provide negative ion during operation.
 Air conditioner OFF:
 Provide negative ion with FAN operation.
 If blinking, press [3] twice.
 If still blinking, please call service.

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10 Installation Instructions

	Required tools for Installation Works				
1.	Philips screw driver	5.	Spanner	9. Gas leak detector	13. Multimeter
2.	Level gauge	6.	Pipe cutter	10. Measuring tape	14. Torque wrench 18 N.m (1.8 kgf.m) 42 N.m (4.2 kgf.m) 55 N.m (5.5 kgf.m)
3.	Electric drill, hole core drill (ø70 mm)	7.	Reamer	11. Thermometer	15. Vacuum pump
4.	Hexagonal wrench (4 mm)	8.	Knife	12. Megameter	16. Gauge manifold

10.1. Safety Precautions

- Read the following "SAFETY PRECAUTIONS" carefully before installation.
- Electrical work must be installed by a licensed electrician. Be sure to use the correct rating of the power plug and main circuit for the model to be installed.
- The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below. Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications.

Marning This indication shows the possibility of causing death or serious injury.				
	This indication shows the possibility of causing injury or damage to properties only.			
The items to be followed are classified by the symbols:				
\bigcirc	Symbol with background white denotes item that is PROHIBITED from doing.			

• Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Please remind the customer to keep the operating instructions for future reference.

1.	Engage dealer or specialist for installation. If installation done by the user is defective, it will cause water leakage, electrical shock or fire.
2.	Install according to this installation instruction strictly. If installation is defective, it will cause water leakage, electrical shock or fire.
	Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock.
	Install at a strong and firm location which is able to withstand the set's weight. If the strength is not enough or installation is not properly done, the set will drop and cause injury.
	For electrical work, follow the local national wiring standard, regulation and this installation instruction. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in electrical work, it will cause electrical shock or fire.
	Use the specified cable (1.5 mm ²) and connect tightly for indoor/outdoor connection. Connect tightly and clamp the cable so that no external force will be acted on the terminal. If connection or fixing is not perfect, it will cause heat-up or fire at the connection.
	Wire routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause heat-up at connection point of terminal, fire or electrical shock.
	When carrying out piping connection, take care not to let air substances other than the specified refrigerant go into refrigeration cycle. Otherwise, it will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury.
	When connecting the piping, do not allow air or any substances other than the specified refrigerant (R410A) to enter the refrigeration cycle. Otherwise, this may lower the capacity, cause abnormally high pressure in the refrigeration cycle, and possibly result in explosion and injury. (Only for models: CS/CU-V7CK, V9CK, V12CK, W7CK, W9CK, W12CK)
10.	• When connecting the piping, do not use any existing (R22) pipes and flare nuts. Using such same may cause abnormally high pressure in the refrigeration cycle (piping), and possibly result in explosion and injury. Use only R410A materials.
	 Thickness of copper pipes used with R410A must be more than 0.8 mm. Never use copper pipes thinner than 0.8 mm.
	 It is desirable that the amount of residual oil is less than 40 mg/10 m (Only for models: CS/CU-V7CK, V9CK, V12CK, V12CK, W7CK, W9CK, W12CK).
	Do not modify the length of the power supply cord or use of the extension cord, and do not share the single outlet with other electrical appliances. Otherwise, it will cause fire or electrical shock.