User's manual	Manual del usuario	Manuel de l'utilisateur
Customer Service US: 1-800-645-2986	Servicio de atención al Cliente US: 1-800-645-2986	Service à la clientèle Canada: 888-645-2986

Portable Air Conditioner with Heat

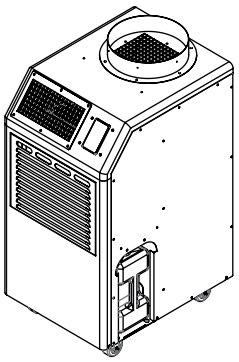
Model : 293164R

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and / or property damage! Retain instructions for future reference.

Product Overview

Global Industrial Portable Air Conditioners with Heat provide powerful spot cooling or heating for large spaces where conditioning the entire area is impractical. A dedicated thermostat maintains the desired temperature during spot cooling or heating applications. The unit can also be used to cool or heat smaller enclosed spaces. An easy-to-use control panel features a self-diagnostic system with a digital display showing operating mode, room temperature, set temperature, and any fault codes for simplified operation and troubleshooting.

Heavy-duty caster wheels allow the unit to be moved easily between locations. Ideal applications include factories, warehouses, workshops, industrial kitchens, computer rooms, emergency cooling or heating, and supplemental climate control.



293164R
Figure 1

Unpacking

Carefully inspect the unit after unpacking for any damage that may have occurred during shipping. Verify that all components are present and that no parts are loose, missing, or damaged before operating the unit.

Specifications

Model No.	Power Supply Ph-V-Hz	Cooling Capacity Btu/h	Power Consumption Watts	Rated Current Amps	EER Btu/Wh
293164R	Single Phase, 115V, 60Hz	13,200(Cooling) 14,300(Heating)	1,130 (Cooling) 1,040 (Heatling)	9.97 A (Cooling) 9.21 A (Heatling)	11.68 13.75

Model No.	Power Cord Gauge AWG	Power Cord Length ft	Dimensions W x D x H - in. (mm)
293164R	12	6	20.6x 26.4 x 41.1 (523x 670 x 1044)

Portable AC with Heat

Model No.	Weight (Net / Gross) Lbs(kg)	Condensate tank Gallons(Liters)	Setting temperature (In temp mode) °F(°C)
293164R	189.6 / 224.6 lbs. (86 / 102 kg)	3.96 (15)	Cooling 64~113(18~45) Heating 56~80(12~27)

Model No.	Application Area (Room cool mode) ft²(m²)	Refrigerant Type / oz(g)	Design Pressure - Hi/Low Psig
293164R	376 (35)	R32 / 33 (930)	450 / 250

Model No.	Wheels pcs / diameter	Hot Air Duct Diameter In.(mm)	Maximum Duct Length ft(m)
293164R	4 / 76mm	12 (300)	50 (15)

Safety Devices	Compressor overload protector, Anti-freezing thermister, Full drain tank switch, Automatic restart (Power interruption), Compressor time delay program, High pressure sensor, Low pressure sensor.
Features	Temperature control, Self-diagnostic function, Six speed fan, Optional drain pump kit, Washable filters, °F(°C) display, Off-timer, Auto fan speed option.

Please read this manual before assembly and operation. It contains important information for the safe installation, operation, and maintenance of your portable air conditioner, helping ensure optimal performance and reliable operation. The manual also includes customer support and service information should assistance be required. If you experience an issue with the unit, refer to the Troubleshooting section for possible solutions. If the problem persists, gather the requested information before contacting Global Industrial Technical Support so we can assist you more efficiently.

General Safety Information

Please read this manual carefully for instructions on correct installation and usage. Please read all safeguards.

1. Transport and store the unit in an upright position only. Leave unit in an upright position for at least 3 hours before first use.
2. Always place the unit on an even, level surface.
3. Ensure the unit is connected to a grounded power supply of the correct rating / capacity.
4. The unit will cool when the room temperature is between 18°C (64°F) ~ 45°C(113°F) depending on the thermostat setting.
5. DO NOT use this unit for functions other than those described in this instruction manual.
6. DO NOT tilt the unit.
7. DO NOT cover or obstruct the unit's inlet and outlet grilles.
8. DO NOT use the unit in areas where it will be exposed to rain or water.
9. NEVER unplug the unit while it is operating.

⚠ WARNING ***DO NOT use the unit in wet environments, such as a laundry room, to avoid the risk of electrical shock.***

10. DO NOT place any foreign objects on the unit.
11. DO NOT operate the unit with wet or damp hands.
12. DO NOT allow chemical substances to come into contact with the unit.
13. DO NOT operate the unit in the presence of flammable substances or vapors such as alcohols, pesticides, gasoline, etc.

⚠ WARNING ***DO NOT operate the unit in explosive or flammable environments.***

14. DO NOT use the plug to start and to stop the unit. Always use the control panel to start and to stop the unit.
15. Always turn off the unit when it is not in use and unplug the power plug from the electrical outlet.
16. Always turn the unit off and unplug the main power plug from the electrical outlet before cleaning, moving or performing maintenance.
17. AVOID the use of adapter plugs or extension cords. If it is necessary to use an extension cord or an adapter plug to operate the unit, ensure that they are correctly rated for the application. Consult a local qualified lectrician and all local electrical codes to ensure proper setup. Any extension cord used with this device must be rated for a minimum of (292660R/292661R/292662R : 220V, 15A).
18. DO NOT unplug the unit by pulling on the electrical cord. Keep electrical cord away from heat sources and always completely unroll the cord to avoid overheating. If the power cord becomes damaged, a qualified service agent, qualified electrician, or similarly qualified person must replace it, in order to avoid a hazard or shock.

⚠ WARNING ***DO NOT operate a unit with a damaged power cord.***

19. The filters must be used with the product at all times. When the filters are removed for cleaning, always ensure that the unit has been turned off and unplugged from the electrical outlet.
20. Regularly clean the filters to maintain efficiency. If the filters are not cleaned regularly, the units output performance and efficiency will decline and energy consumption will increase.
21. DO NOT operate the unit with a damaged power cord or plug, after it malfunctions, has been dropped or damaged.
22. Only use in the upright position on an even, flat surface. Unit must be positioned at least 24 inches (60 cm) from the nearest object in any direction.
23. Stop operation immediately if abnormal noise or odor is noticed. Contact a local service center.
24. Appliance is not to used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
25. Children being supervised not to play with appliance.
26. That the appliance shall be installed in accordance with national wiring regulations.
27. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
28. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
    Children should be supervised to ensure that they do not play with the appliance
29. If it is necessary to take precautions during installation of the appliance, appropriate details shall be given.
30. The instructions for fixed appliances shall state how the appliance is to be fixed to its support.
    The method of fixing stated is not to depend on the use of adhesives since they are not considered to be a reliable fixing means.
31. Instructions and other text required by this standard shall be written in an official language of the country in which the appliance is to be sold.
32. The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures
33. A wiring diagram with a clear indication of the connections and wiring to external control devices and supply cord
34. The method of connection of the appliance to the electrical supply and interconnection of separate components
35. Details of type and rating of fuses, or rating of circuit breakers

SAVE THESE INSTRUCTIONS

WARNING



This symbol means to read the instruction manual carefully.



This symbol indicates that information is provided, such as in the user manual or installation manual.



This symbol means that this appliance uses a flammable refrigerant.
There is a risk of fire if refrigerant leaks and is exposed to an external ignition source.



This symbol means that service personnel must refer to the installation instructions when handling this equipment.

- Do NOT use mechanical devices or other means to accelerate the defrosting process or to clean th unit, except those recommended by the manufacturer.
- Store the appliance in a room without continuously operating ignition sources (e.g., open flames operating gas appliances, electric heaters, or hot surfaces).
- Do NOT pierce or burn the unit
- Be aware that refrigerants may be odorless

General

- The installation of pipe-work must be kept to a minimum.
- National gas regulations must be observed.
- Mechanical connections must be accessible for maintenance purpose.
- The air conditioner unit shall be stored in a well-ventilated area.
- Keep any required ventilation openings clear of obstruction.
- The unit must be operated and stored in a room with a floor area larger than 1,819 sq. ft.

Unventilated Areas

- Store the unit in a manner that prevents mechanical damage
- Do not store the unit near open flames, gas appliances, electric heaters, or othe ignition sources.
- Damaged units must be repaired before storage

Safety Checks for Service Work (Flammable Refrigerants)

Before performing any work on systems containing flammable refrigerants, safety checks must be conducted to minimize the risk of ignition.
Prior to servicing or repairing the refrigeration system, ensure all required safety precautions are followed and that the work area has been properly assessed for potential ignition hazards.

Work Procedure

Work must be carried out under controlled procedures to minimize the chance of any flammable gas or vapor being present during the operation.

General Work Area

All maintenance personnel and anyone working in the surrounding area must be informed of the nature of the work being performed. Work in confined spaces should be avoided.

Qualification of Workers

– Use caution when handling the unit to avoid damage. Do not puncture or drill into the product for any reason, as this may cause damage and prevent the unit from cooling properly.
– Service must only be performed by technicians who are properly trained and certified to work with flammable refrigerants. Any service performed by unauthorized individuals will void all warranties.
– Maintenance and cleaning must be carried out by trained personnel. Improper cleaning can damage the refrigeration system and/or electrical components.
– Servicing shall only be performed in accordance with Global Industrial recommendations. Any maintenance or repair requiring additional skilled personnel must be conducted under the supervision of someone competent in the handling of flammable refrigerants.
– The refrigerant and insulation blowing agents used in this appliance require special disposal procedures. Consult a service agent or other qualified professional before disposing of them.
– Anyone working on or opening a refrigerant circuit, sealed components, or ventilated enclosures must hold a valid certification from an industry-accredited assessment authority, confirming their competence to safely handle refrigerants in accordance with recognized industry standards.

Checking for the Presence of Refrigerant

The work area must be inspected with an appropriate refrigerant detector both before and during the task to ensure the technician is alerted to any potentially toxic or flammable atmosphere. Leak-detection equipment must be suitable for all applicable refrigerants—non-sparking, properly sealed, or intrinsically safe.

Fire Extinguisher Requirements

If any hot work is to be performed on the refrigeration equipment or associated components, appropriate fire-extinguishing equipment must be readily accessible. A dry-powder or CO_2 extinguisher should be positioned adjacent to the charging area.

Elimination of Ignition Sources

No person working on refrigeration systems or exposed pipework shall use any ignition source that could create a risk of fire or explosion. All potential ignition sources—including smoking—must be kept at a safe distance during installation, service, repair, removal, or disposal activities where refrigerant may be released. Before work begins, the surrounding area must be surveyed to confirm the absence of flammable hazards or ignition risks. “No Smoking” signage shall be clearly displayed.

Ventilated Area

Ensure the work area is outdoors or adequately ventilated before opening the system or performing any hot work. Ventilation must be maintained throughout the duration of the task to safely disperse any released refrigerant, preferably exhausting it to the outside atmosphere.

Checks to the refrigerating equipment

When replacing electrical components, they must be suitable for the application and meet the correct specifications. Manufacturer maintenance and service guidelines shall always be followed. If uncertain, contact Global Industrial.

The following checks shall be performed on installations using flammable refrigerants:

– Confirm the refrigerant charge is appropriate for the room size where refrigerant-containing components are installed.
– Verify that all ventilation equipment and outlets are functioning properly and remain unobstructed.
– If an indirect refrigeration circuit is used, check the secondary circuit for the presence of refrigerant.
– Ensure all equipment markings remain visible and legible; restore or replace any damaged or illegible markings.
– Confirm that refrigeration pipes and components are installed in locations where they will not be exposed to corrosive substances, unless constructed from inherently corrosion-resistant materials or otherwise properly protected.

Checks to Electrical Devices

Repair and maintenance of electrical components shall include initial safety checks and proper inspection procedures. If any fault is identified that may compromise safety, power must not be supplied to the circuit until the issue has been resolved.

Initial safety checks shall include:

– Discharging capacitors safely to prevent sparking.
– Ensuring no live electrical components or wiring are exposed during charging, recovery, or purging of the system.
– Confirming continuity of earth bonding.

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected.
This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Sealed electrical components shall be replaced.

Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

Detection of Flammable Refrigerants

Never use potential ignition sources when checking for refrigerant leaks. Halide torches or any leak detection device that uses an open flame must not be used.

Acceptable leak detection methods include electronic leak detectors, the bubble method, and fluorescent dye. When using electronic detectors with flammable refrigerants, ensure the detector:

Is calibrated in a refrigerant-free area.
Is suitable for the refrigerant being used.
Is not a potential ignition source.
Is set to detect leaks at the appropriate percentage of the refrigerant's Lower Flammability Limit (LFL), with a maximum of 25% gas concentration.

If a leak is suspected, immediately extinguish or remove all open flames and ignition sources.

If a refrigerant leak requires brazing, recover all refrigerant from the system or isolate it using shutoff valves in a section away from the repair area before beginning work.

Removal and Evacuation

When opening the refrigerant circuit for repairs or service, always follow standard refrigeration practices while taking additional precautions for flammable refrigerants.

Recommended procedure:

- Evacuate the system.
- Purge the circuit with an inert gas (optional for A2L refrigerants).
- Evacuate again (optional for A2L refrigerants).
- When using a flame to open the circuit, continuously purge with inert gas.
- Open the refrigerant circuit.

Recover refrigerant into approved recovery cylinders whenever venting is prohibited by local or national regulations.

For systems containing flammable refrigerants, purge the system with oxygen-free nitrogen to remove refrigerant before servicing. Repeat the process as necessary. Never use compressed air or oxygen for purging.

For A2L refrigerants, the evacuation and nitrogen purge steps may be optional, but if nitrogen is used, continue purging until the system reaches working pressure, vent to atmosphere, and pull the system back into a vacuum. Repeat until the refrigerant has been completely removed. After the final nitrogen charge, vent the system to atmospheric pressure before servicing.

Ensure the vacuum pump exhaust is located away from any ignition sources and that the work area is well ventilated.

Labeling

After decommissioning, clearly label the equipment to indicate it has been emptied of refrigerant. The label must be dated and signed. Equipment containing flammable refrigerants must also display a label indicating that it contains a flammable refrigerant.

Decommissioning

Before servicing or decommissioning the equipment, the technician must be thoroughly familiar with the unit and its operation. Refrigerant should always be recovered safely. If reclaimed refrigerant may be reused, collect oil and refrigerant samples for analysis before beginning work. Ensure electrical power is available before starting the procedure.

Follow these steps:

- Familiarize yourself with the equipment and its operation.
- Disconnect electrical power to the system.
- Verify that:
  - Appropriate refrigerant recovery cylinders and recovery equipment are available. Mechanical lifting equipment is available, if required.
  - Proper personal protective equipment (PPE) is being used.
  - A qualified technician supervises the recovery process.
- Pump down the refrigerant system whenever possible.
- If a vacuum cannot be achieved, use a manifold to recover refrigerant from all sections of the system. Place the recovery cylinder on a scale before recovery begins.
- Operate the recovery machine according to the manufacturer's instructions.
- Do not fill recovery cylinders beyond 80% of their liquid capacity.
- Never exceed the cylinder's maximum working pressure.
- After recovery is complete, promptly remove the cylinders and recovery equipment from the work area and close all isolation valves.
- Do not recharge recovered refrigerant into another refrigeration system unless it has been properly cleaned and tested.

Refrigerant Recovery

When removing refrigerant for service or decommissioning, always recover it safely using approved refrigerant recovery cylinders.

Ensure:

- Only cylinders approved for refrigerant recovery are used.
- Sufficient cylinder capacity is available for the total refrigerant charge.
- Recovery cylinders are clearly labeled for the refrigerant being recovered.
- Cylinders are equipped with properly functioning pressure-relief devices and shutoff valves.

Charging Procedures

In addition to standard charging practices, observe the following precautions:

- Prevent contamination between different refrigerants by using clean charging equipment. Keep charging hoses as short as practical to minimize refrigerant volume.
- Always keep refrigerant cylinders in the upright position.
- Verify the refrigeration system is properly grounded before charging.
- Label the system after charging, if it is not already labeled.
- Do not overcharge the refrigeration system.

Before recharging, pressure-test the system using the appropriate purge gas. After charging, perform a leak test before commissioning the equipment, and conduct a final leak inspection before leaving the installation site.

Assembly

COMPONENT PARTS

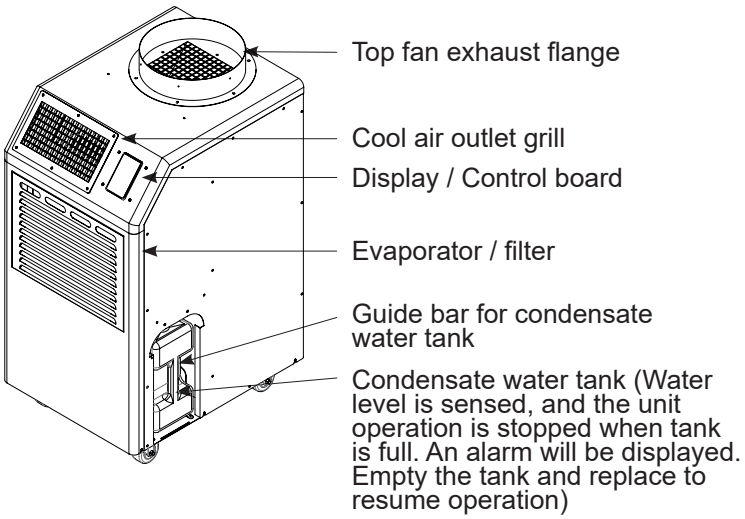


Figure 2
Front and Right side View

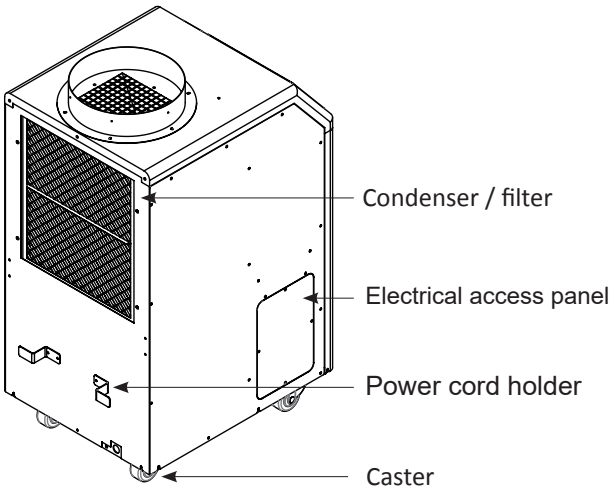


Figure 3
Back and Left side View

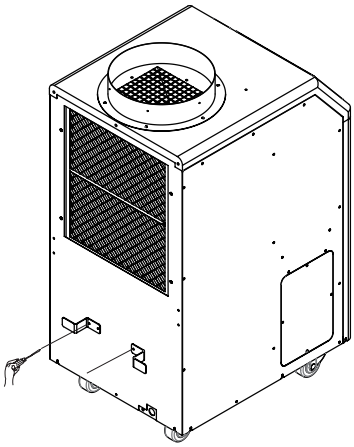


Figure 4

POWER CORD HOLDER

1. Take out the cord holder from the accessory box.
2. Place the cord holder on the back side of air conditioner.
3. Use screws (enclosed inside of accessory box with cord holder) to install the cord holder on the air conditioner as shown in Figure 4.

TOP FAN EXHAUST FLANGE

1. Remove the top fan exhaust flange from carton.
2. Place the top fan exhaust flange on the top of air conditioner.
3. Use screws (enclosed inside of box with the top fan exhaust flange) to install the top fan exhaust flange on air conditioner as shown in Figure 5.

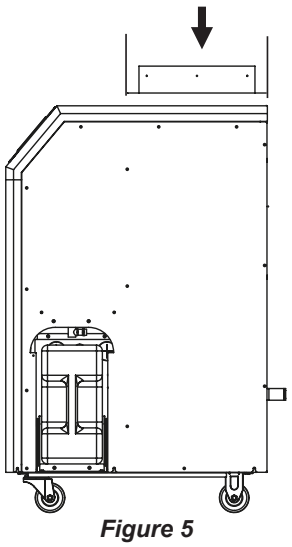


Figure 5

Installation

Only operate in the upright position on a flat level surface, with a minimum of 24 inches from all walls or any objects. (See Figure 7)

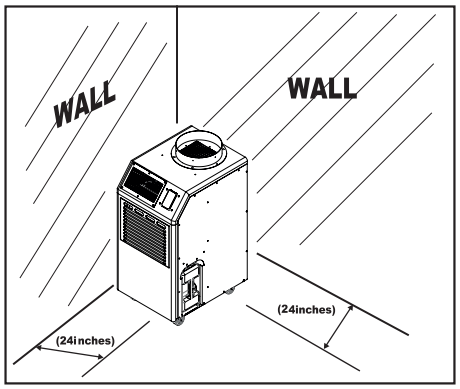


Figure 6

WARNINGS REGARDING PROPER LOCATION FOR INSTALLATION

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

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

⚠ WARNING ***Do not use the unit in a corrosive atmosphere.***

⚠ WARNING ***Do not use the unit above 64°F ~ 113°F.***

⚠ WARNING ***Do not install the unit on uneven or sloped surfaces. 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 using the side handles 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 pres-ent, 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 electri-cian to perform replacement or repair of the power cord, plug or prongs.

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

⚠ WARNING ***Do not connect / disconnect the power cord or attempt to operate buttons with wet hands.***

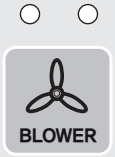
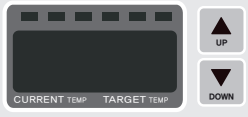
NOTE: Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign material.

Operation

CONTROL PANEL



Figure 7

Power Button	· Press the “Power” button to turn on the unit. · Press the “Power” button for 2 seconds to turn off the unit. <Note : It takes more than 3 minutes to start fan>  · POWER : ON/OFF
Blower Button	· To change fan speed setting mode by pressing “Blower” button. Right Lamp (○●) : Auto, Left Lamp (●○) : Manual · Press the “UP/DOWN” button to set the fan speed from 1 to 6 when the left lamp is on. · Fan speed is set automatically from 1 to 6 depends on the temp difference when the right lamp is on.  · Press the button to change the control mode · Auto : Automatic control depends on the temp difference · Manual : Fan speed can be controlled.  · Fan speed is set automatically from 1 to 6 depends on the temp difference when the right lamp is on.

Portable AC with Heat

Cool Button

· Press the “Cool” button to set the IN Temperature.
 · Non setting temperature is 64°F. You can set the temperature from 0°F to 30°F (18°C to 30°C)
· Press “UP/DOWN” Button to set the temperature.
 · Cooling is operated when the setting temperature is 4°F lower than current temperature.



1) The lamp would be on if you press the cool button.



2) Set the target temperature
 - The temperature can be set from 32℉ ~ 122℉ (0℃ to 50℃)



3) Choose the trage fan speed
 (Please read 11Page for the instuction)

Heat Button

· Press the “Heat” button to set the IN Temperature.
· Non setting temperature is 30°C. You can set the temperature from 32 to 86°F (0 to 30°C)
· Press “UP/DOWN” Button to set the temperature.
· Heating is operated when the current temperature is 4°F higher than setting temperature.



1) The lamp would be on if you press the Heat button.



2) Set the target temperature.
 - The temperature can be set from 32℉ ~ 122℉ (0℃ to 50℃)



3) Choose the target fan speed

OFF-TIMER

· Enter to timer setting mode by pressing Cool BUTTON and Blower BUTTON together for 2 seconds.
· Press UP/DOWN BUTTON to set the timer until it shows the figure you want to set. (Setting range is between 30 minutes and 12 hours.)
· If you press Heat BUTTON for 2 seconds, the figure will be memorized and the compressor will stop after the time set.
· Display will show CURRENT TEMP (for 5 seconds) and remaining time (for 2 seconds) in turn repeatedly



1) Press both buttons for 2 seconds



2) Set the target time
- from 30 min to 12 hour



3) Press and hold the button for 2 seconds to save the setting
- Display shows the temperature and start the OFF-timer
- Display shows the current temp for 5seconds and remaining time for 2 seconds in turn repeatedly.

Cancel the OFF-Timer



1) Press the Up/Down Button together for 2 seconds.



2) Set the time on display to " - -" " - - "
Press the Heat button to save it.



3) When the unit is turned off, Off timer is also canceled.



4) When the unit is turned off abnormally, the timer will be restart when the power resumes
※ When the unit turned off, Off timer is also canceled.
When the unit turned off abnormally, the timer will be restart
When the power resumes.

Monitor Mode

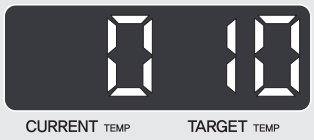
· You can check the value of operating sensors with display.



1) Press the “Blower” and “Heat” button together to check the value of the sensors.

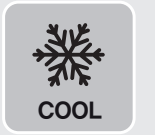


2) You can see the data by using “UP/DOWN” button.



3) “Current” shows “Number” and “Target” shows “Value”. Please refer to the table below.

Number	Showing Data	Measurement	Contents
0	Temperature Difference When Cooling or Heating	1℃	Temperature difference between suction air temperature and blowing air temperature
1	High Press	1㎏/㎠	Current pressure of High Press(TH2)
2	Low Press	1㎏/㎠	Current pressure of Low Press(TH1)
3	CT1	1Ampere	Current of COMP
4	CT2	1Ampere	Current of COND FAN
5	CT3	1Ampere	Current of EVA FAN
6	CH1	10	Current Pulse Value



4) Press “Cool Button” to turn off the unit.

Maintenance

FILTER CLEANING *(See Figures 10 and 11)*

There are three filters in the unit. The evaporator filter is located at the front of the unit. The condenser filters are located at the side of the unit.

Cleaning the Air Filters

- Loosen the two bolts securing the front filter guard.
- Slide the filter upward and remove dust using a vacuum cleaner.
- If the filter is heavily soiled, wash it with warm water and mild soap or a neutral detergent. Do not use harsh chemicals or solvents, as they may damage the filter.
- Allow the filter to dry completely in a shaded area before reinstalling it. Never operate the unit without the filter installed and the filter guard securely closed.
- Reinstall the cleaned filter and tighten the filter guard.

Cleaning the Condenser Filters

- Lift the condenser filter slightly using the center support bar, then pull the bottom outward and remove the filter.
- Clean the condenser filter using the same procedure described for the front filter.
- To reinstall, insert the top of the filter into the upper guide and slide it upward until the bottom clears the frame. Push the bottom into the lower guide, then allow the filter to slide gently into place.

NOTE: For effective cooling clean the filter at least every 2 weeks.

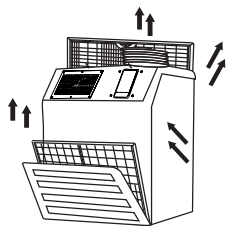


Figure 9 – Removing Filters

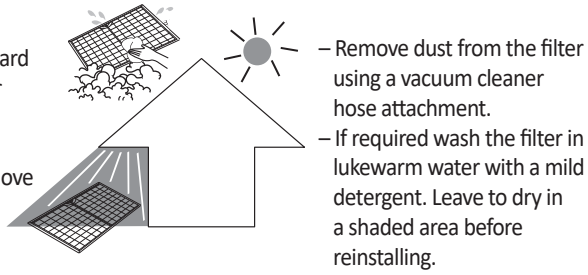


Figure 10 – Removal of Dust

⚠ WARNING ***Do not operate without the filter fitted.***

⚠ WARNING ***Do not operate the unit with a damaged cord or plug, after the unit malfunctions, or if the unit has been dropped or damaged.***

– For your convenience, record the complete model number and product name (located on the Product Identification Plate), the purchase date, purchase location, serial number, and warranty period in the table below.

– Also, attach your purchase receipt as proof of purchase to this instruction manual for future reference.

– To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.

Wiring Diagram

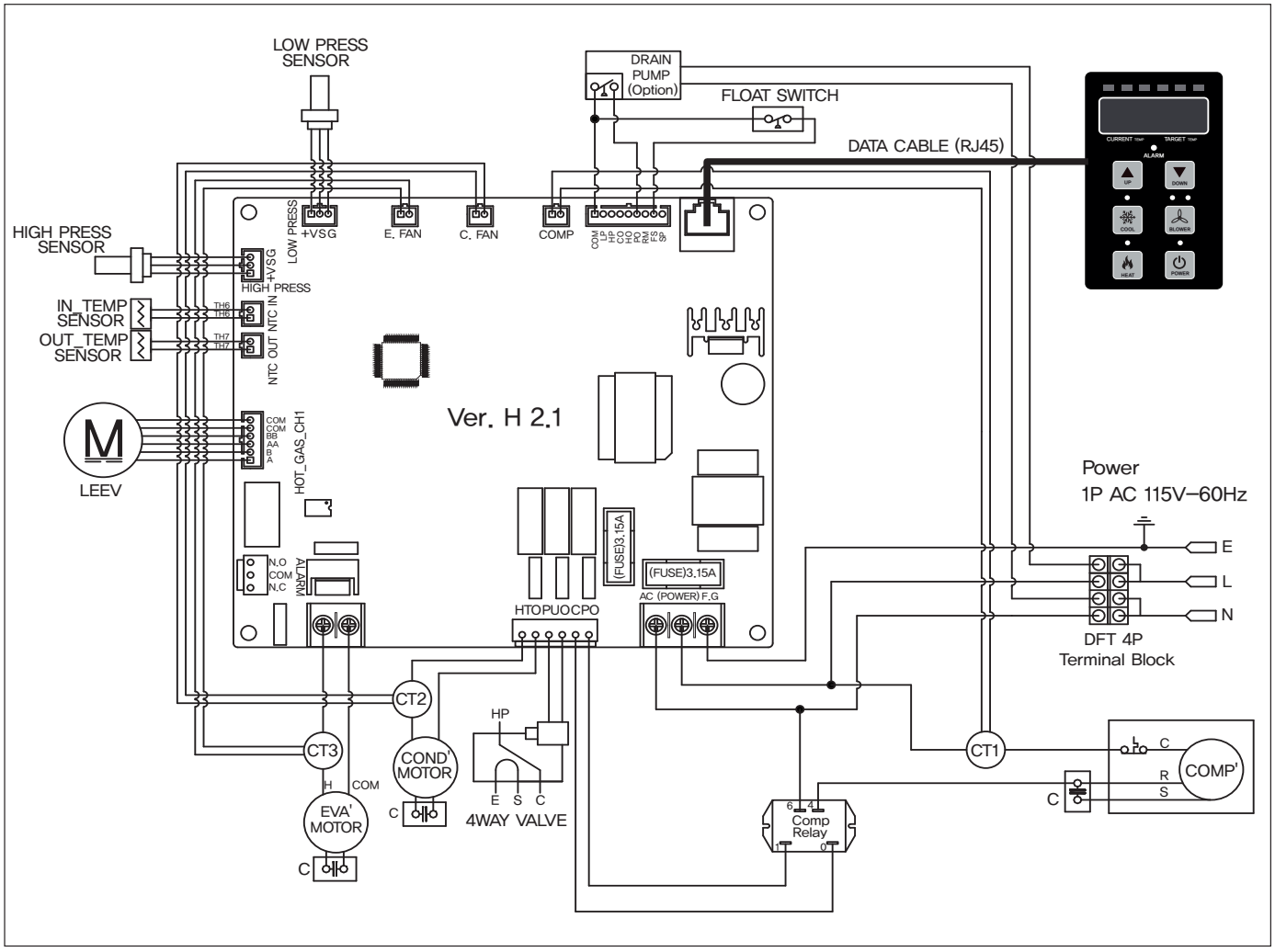


Figure 11 - Circuit Wiring Diagram (293164R)

SELF-DIAGNOSTIC ALARM CODES			
Alarm Display	**Problem**	**Cause**	**Corrective Action**
	Low pressure sensor works	· Coolant leakage · Low pressure sensor has a loose or broken connection	Contact a qualified service agent
	Frost prevention sensor and Abnormal temperature sensor value	· Indoor heat exchanger temperature is too low · Eva filter is blocked · Low pressure sensor has a loose or broken connection	· Do not use the air conditioner if ambient temperature is lower than 64℉(18℃) · Clean the Eva filter · Contact a qualified service agent
	High pressure sensor works	· Cond filter is blocked · Exhaust duct is blocked or kinked · Ambient temperature is too high · High pressure sensor has a loose or broken connection	· Clean the Cond filter · Ensure exhaust duct is not blocked/kinked · Do not use the air conditioner if ambient temperature is higher than 113℉(45℃) · Contact a qualified service agent
	High pressure sensor works	· Ambient temperature is too high · Cond filter is blocked	· Do not use this product if ambient temperature is higher than 113℉(45℃) when cooling, 77℉(25℃) when heating · Clean the Cond filter
	Abnormal temperature sensor value	Inlet temperature sensor has a loose or broken connection	Contact a qualified service agent

Table 1- Alarm Codes

SELF-DIAGNOSTIC ALARM CODES			
Alarm Display	**Problem**	**Cause**	**Corrective Action**
	Abnormal temperature sensor value	Outlet temperature sensor has a loose or broken connection	Contact a qualified service agent
	Compressor overloaded	· Ambient temperature is too high · Unstable voltage supply · Defective compressor	· Do not use the air conditioner if ambient temperature is higher than 113℉(45℃) · Contact a qualified service agent · Replace compressor
	Condenser fan alarm	· Voltage of condenser fan is lower than normal. · Condenser fan is failure.	· Contact a qualified service agent
	Evaporator fan alarm	· Voltage of evaporator fan is lower than normal. · Evaporator fan is failure.	· Contact a qualified service agent
	Drain pump alarm	Drain pump defective or improper hose connection (including kink or blockage)	· Check the hose connection and hose · Replace drain pum · After corrective action, press the UP/DOWN buttons together for 2seconds to resume operation
	Condensate water level alarm	Condensate tank is full	· Empty the water tank · After installation of the water tank, press the UP/DOWN buttens together for 2 seconds to resume operation

Table 1- Alarm Codes

Troubleshooting chart

Symptom	Possible Cause(s)	Corrective Action
Water leakage	Position issue / Damage	1. Check the water tank is placed on the correct position Replace the damaged water tank with the new one. 2. Remove any object stuck underneath the Drain Pan underneath the water tank
	FT sensor error	1. Replace the FT sensor if needed. (Contact Global Industrial Customer Service)
	Drain pump issue	1. Remove blockage from drain hose 2. Replace the defective drain pump with the new one.
The unit doesn't work	Check the power supply to verify that power is available to the unit	1. Reset the circuit breaker and restart the unit
	Verify that the power cord is connected	1. Connect power cord
	Trip off the circuit breaker	1. Electrical access panel in Reset the circuit breaker and restart the unit (Consult a local qualified electrician)
No cold air flows from the cold air outlet	Ambient air cannot be properly cooled if the filter is dirty and not regularly cleaned	1. Clean the filter

※ A defective unit must be repaired by a qualified company.

Troubleshooting chart

Symptom	Possible Cause(s)	Corrective Action
No cold air flows from the cold air outlet	Compressor will not work if the unit is turned off and on quickly.	1. Wait 3 minutes after unit is turned off before turning the unit back on. 2. Check the Cool Icon If the light is off, A/C will be activated after light is on.
	Refrigerant leaking	1. Charge the refrigerant
	The ambient air temperature may be too high	1. The temperature of the compressor can be higher when the ambient temperature is too high. The compressor will not work unless the ambient air temperature is within the acceptable operating range of the unit
Water flow can be heard after compressor shuts off	No cause	Common to hear coolant flowing after unit shuts off
Alarm displays “FT”with less than half of condensate water in the tank Spring is possibly broken	Spring is possibly broken	Replace a new spring (See Maintenance page 19)