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, 7.5 Ton, 92,000 BTU

Model: 604217

Read all instructions carefully before attempting to assemble, install, operate or maintain this air conditioner. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and / or property damage, and will void warranty. Save instructions for future reference.

Description

Global Industrial portable air conditioners are designed for spot cooling in large areas where cooling the entire space is impractical. A dedicated thermostat specifically for spot cooling controls the unit in this application. These air conditioners can also be used in smaller spaces for general room cooling.

The control panel is user-friendly, featuring a self-diagnostic function and display that shows operating modes, room and set temperatures, as well as any faults. If an abnormal operation occurs, the fault is visually displayed. The units come with caster wheels for easy mobility. They are suitable for various applications such as factories, industrial kitchens, computer rooms, emergency cooling, outdoor events, and more.



604217

Figure 1

Unpacking

After unpacking the unit, carefully inspect the machine for any damage that may have occurred during transit. Check for any loose, missing, or damaged parts.

Specifications:

Model No.	Power Supply Ph-V-Hz	Cooling Capacity Btu/h	Power Consumption Watts	EER Btu/Wh	Rated Current Amps
604217	3 phases, 460V, 60Hz	92,000	10,500	8.76	16.5

Model No.	Dimensions W x D x H Weight (Net / Gross)	No. of Cool Air Outlets Pcs	Condensate tank Gallons(Liters)	Ambient temperature range °F (°C)
604217	28.9 "x 51.6" x 59.8" 760.6 lbs. / 793 lbs.	3	Auto Pump Included	64~113 (18~45)

Specifications (continued):

Model No.	Setting temperature (Room cool mode) °F(°C)		Setting temperature (Spot cool mode) °F(°C)	
604217	64~86 (18~30)		32~86 (0~30)	
Model No.	**Application Area (Room cool mode) ft²**		**Refrigerant Type / oz(g)**	**Design Pressure - Hi/Low Psig**
604217	2,637 (245)		R-454B / 141.1 (4,000)	450 / 250
Model No.	**Indoor Air Flow CFM(CMM)**	**Wheels pcs / diameter**	**Hot Air Duct diameter**	**Maximum Exhaust Duct Length**
604217	2,890 (48)	4 / 5 inch	20 inch	100 ft.
Safety Devices		Compressor overload protector, Anti-freezing thermistor, Condensate overflow protection, Automatic restart (Power interruption), Compressor time delay program, High pressure switch, Hot gas bypass.		
Features		Temperature control, Self-diagnostic function, Washable filters, °F (°C) display, Off-timer, Drain pump installed , 20" Hot air exhaust flange included.		

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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 64.4°F ~ 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 lammable 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 applica-tion. Consult a local qualified electrician and all local electrical codes to ensure proper setup. Any extension cord used with this device must be rated for a minimum of 20A.
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 be-comes damaged, a qualified service agent, qualified electrician, or similarly qualified person must replace it, in order to avoid a hazard or shock.

Portable Air Conditioner

⚠ 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 clean-ing, 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.

SAVE THESE INSTRUCTIONS

Assembly

COMPONENT PARTS

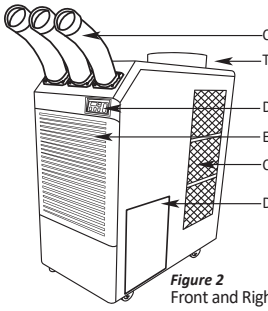


Figure 2
Front and Right Side View

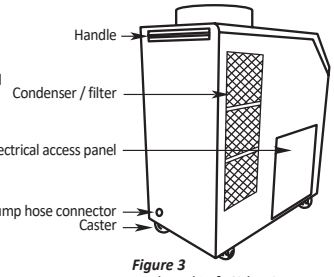


Figure 3
Back and Left Side View

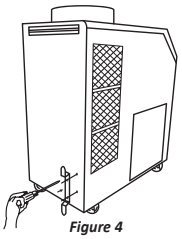


Figure 4

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.

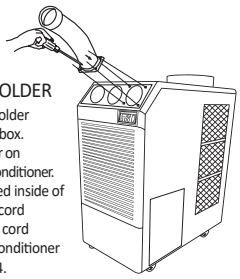


Figure 5

DISCHARGE DUCTS /SUPPLY AIR DUCT

1. Remove cool air outlet hose(s) from carton.
2. Place the cool air outlet hose(s) on the front top of air conditioner.
3. Use screws (enclosed inside of box with cool air outlet hose(s) to install the cool air outlet hose(s) on the air conditioner as shown in Figure 5.

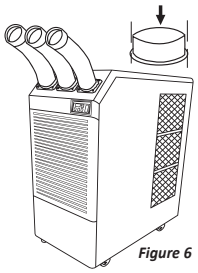


Figure 6

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 6.

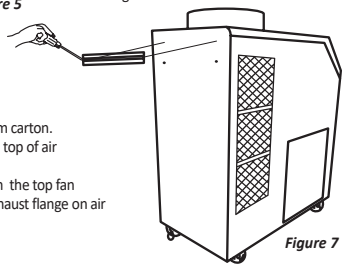


Figure 7

HANDLE

1. Remove a handle from carton.
2. Place the handle on upper side of rear panel.
3. Use screws (enclosed inside of box with a handle) to install the handle as shown in Figure 7.

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 8)*

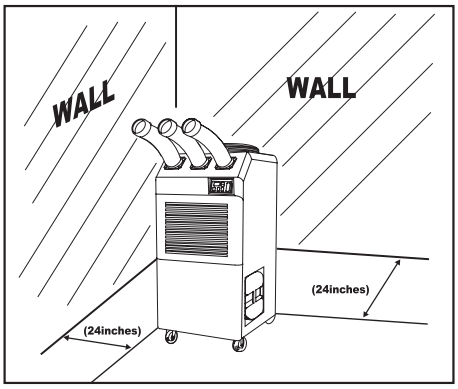


Figure 8

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. This could result in electrical shock.***

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

Operation

CONTROL PANEL

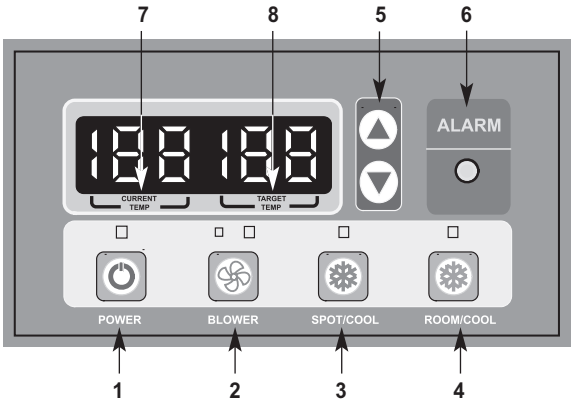


Figure 9 - Control Panel

1. POWER BUTTON

- Activates unit when POWER BUTTON is pressed.
- Fan starts on low speed.
- If POWER BUTTON is pressed during operation, unit stops.

2. BLOWER BUTTON

- Changes fan speed from LOW to HIGH when pressed.

3. SPOT / COOL BUTTON

- Activates compressor and begins producing cool air 5 seconds after button is pressed.
- Regulates temperature based on outlet cool air temperature.

4. ROOM / COOL BUTTON

- Activates compressor and produces cool air 5 seconds after button is pressed.
- Regulates temperature based on inlet ambient air temperature.

5. SET TEMP BUTTON

- Change target temperature / data value by ± 1.
- Change data value by ± 10 by pressing continually.
- Press the SET TEMP BUTTONS to set temperature.
- Upper button is to raise temperature and lower button is to lower temperature.

6. ALARM

- Alarm indicator light blinks and indicates abnormal system operation.
- If Alarm occurs, compressor stops.
- System operation stops when ALARM light is activated /blinking longer than 3 minutes.

7. CURRENT TEMP

- Room cool mode displays current room temperature in display in degrees Fahrenheit
- SPOT / COOL Mode displays outlet (cool air) temperature during normal operations.
- In order to change °F to °C, press SPOT / COOL and ROOM / COOL buttons together for 2 seconds.
- C will blink 2 times and the figure will change to °C
- ALARM codes blink and are displayed when abnormal operation occurs.

8. TARGET TEMP

- Displays the unit set temperature for ROOM COOL mode only

OFF-TIMER: Enter to Timer Setting Mode if you press BLOWER Button and SPOT/COOL Button together for one second. Press UP/DOWN Button to set the timer until it shows the number you want to set. After 5 seconds, the number will be memorized and the compressor will stop after the time set.

AUTO RESTART: If the unit goes off due to an electrical interruption, the unit will automatically restart when the power resumes.

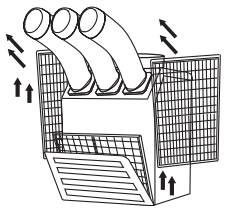
Maintenance

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.

1. Loosen the 2 bolts on the front filter guard.
2. Slide filter up and use a vacuum cleaner to remove the dust from the filter.
3. If the filter is heavily covered with dust and dirt, warm water and mild soap or neutral deter-gent may be used to wash the filter. Do not use any other chemicals to clean filter, as they will likely damage the filter.
4. Dry the filter in a shaded area before replacing it. Do not operate the unit without the filter installed and the filter guard in the closed position.
5. Replace the clean filter and close the filter guard.
6. To clean the condenser filters, lift up on the side filters from the middle bar slightly and then angle the filters outwards from the bottom and remove.
7. Use the same cleaning procedure as above (3 – 5).
8. To replace the condenser filter, place the top of the filter in the guide and slide the filter up until the bottom of the filter clears the frame. Then push the bottom of filter into the guide and let filter gently fall inside the guide.

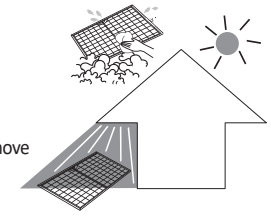
NOTE: For effective cooling clean the filter at least every 2 weeks.



– Loosen up 2 bolts on the front filter guard.

– Slide filter up and use a vacuum cleaner to remove the dust from the filter.

Figure 10 – Removing Filters



– Remove dust from the filter using a vacuum cleaner hose attachment.

– If required wash the filter in lukewarm water with a mild detergent. Leave to dry in a shaded area before reinstalling.

Figure 11 – Removal of Dust

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

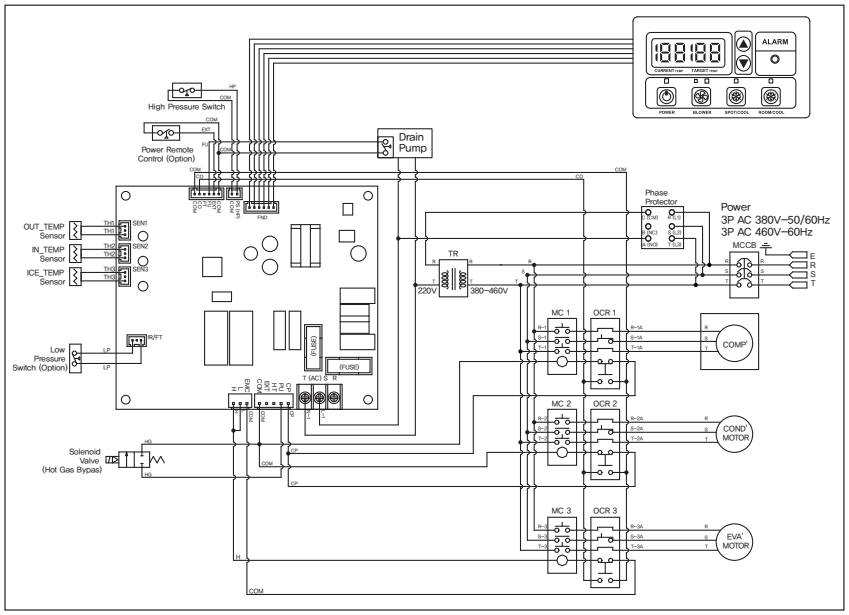
– For your convenience, record the complete model number and product name (located on the Product Identification Plate), the purchase date, purchase location, serial number, and warranty period in the table below.

– 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 12 - Circuit Wiring Diagram (604217)



SELF-DIAGNOSTIC CODES *(See Table 1)*

The alarm light is activated if abnormal operation occurs, and a code is displayed on the control panel. The compressor and condenser fan motor will stop operating. The evaporator fan will con-tinue to run for 3 minutes. If the fault is rectified within 3 minutes, the unit will resume opera-tion. If the fault persists for more than 3 minutes, the evaporator fan also stops. The fault must be rectified before the unit can resume normal operation.

SELF-DIAGNOSTIC ALARM CODES			
Alarm Display	Problem	Cause	Corrective Action
	● Compressor overload ● Evaporator motor overload ● Condenser motor overload	● Ambient temperature is too high ● Unstable voltage supply ● Defective compressor ● Abnormal operation of evaporator motor ● Abnormal operation of condenser motor	● Do not use the air conditioner if ambient temperature is higher than 45°C (113°F) ● Contact a qualified service agent ● Replace compressor ● 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 pump
	High pressure	● Improper air circulation ● High ambient temperature	● Clean the air filter ● Ensure exhaust duct is not blocked or kinked ● Ambient temperature must be under 45°C(113°F)
	Abnormal temperature sensor value	TH1(Outlet) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Abnormal temperature sensor value	TH2(Inlet) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Abnormal temperature sensor value	TH3(Evaporator coil) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Frost on heat exchanger	● Indoor heat exchanger temperature too low	● Do not use the air conditioner if ambient temperature is lower than 18°C (64°F) ● Contact a qualified service agent

Table 1- Alarm Codes

Troubleshooting

Symptom	Possible Cause(s)	Corrective Action
Water leakage	High water level in condensate tank	1. Check and remove any blockage from drain hose 2. Remove any objects stuck beneath the black panel under the water tank
The unit is not powering on	1. Check the buildings power supply to verify that power is available to the unit 2. Check that the power cord is connected	1. Reset the circuit breaker and restart the unit 2. Connect power cord
Cold air is not coming from the air outlets	1. Check filter. Ambient air cannot be properly cooled if the filter is dirty and not regularly cleaned 2. Compressor will not work if the unit is turned off and on quickly. 3. The ambient air tem-perature may be too high	1. Clean the filter 2. Wait 2 minutes after unit is turned off before turning the unit back on. 3. The compressor temperature may rise when the ambient temperature is too hight. The compressor will only operate if the ambient air temperature is within the unit's accetable operating range
The sound of water flowing can be heard after the compressor is turned off	No cause	It's common to hear coolant flowing after unit shuts off