



OPERATION MANUAL

CT-12

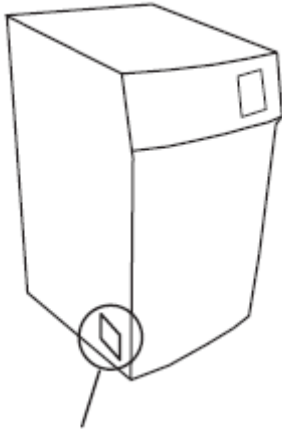


READ THIS MANUAL CAREFULLY FOR INSTRUCTIONS ON CORRECT
INSTALLATION AND USAGE, AND READ ALL SAFEGUARDS

PORTABLE SPOT AIR CONDITIONER

SERIAL NUMBER LOCATION AND IDENTIFICATION

Nameplate Label





Nameplate Label Position

Power [Ⓟ]	AC115V/60Hz [Ⓟ]	
Cooling Capacity [Ⓟ]	3500W [Ⓟ]	
Air Volume [Ⓟ]	High [Ⓟ]	Low [Ⓟ]
Cold Air Flow(per min.) [Ⓟ]	22m ³ (777ft ³) [Ⓟ]	15m ³ (530ft ³) [Ⓟ]
Hot Air Flow(per min.) [Ⓟ]	40m ³ (1413ft ³) [Ⓟ]	32m ³ (1130ft ³) [Ⓟ]
Rated Current [Ⓟ]	12.5A [Ⓟ]	12A [Ⓟ]
Max Current [Ⓟ]	15A [Ⓟ]	
Power Consumption [Ⓟ]	1400W [Ⓟ]	1345W [Ⓟ]
Max Power Consumption [Ⓟ]	1630W [Ⓟ]	
Compressor [Ⓟ]	Fully enclosed rotary [Ⓟ]	
Condensate Water Treatment [Ⓟ]	15L drain tank [Ⓟ]	
Refrigerant [Ⓟ]	R-410A [Ⓟ]	
Refrigerant Capacity [Ⓟ]	500g(1.1Lb) [Ⓟ]	
Discharge Pressure [Ⓟ]	3.0MPa [Ⓟ]	
Suction Pressure [Ⓟ]	0.9MPa [Ⓟ]	
Max Operating Pressure [Ⓟ]	4.0MPa [Ⓟ]	
Environment Conditions [Ⓟ]	18°C~45°C(64F – 113F) [Ⓟ]	
Dimensions [Ⓟ]	590mm×520mm×1060mm [Ⓟ]	
Weight [Ⓟ]	62kg (136Lbs) [Ⓟ]	

FOREWORD

Congratulations on purchasing the ClimaTemp Portable spot air conditioner. This manual explains how to install and operate the ClimaTemp Portable spot air conditioner. Please read this operation manual thoroughly to familiarize yourself with the features of the unit and to ensure years of reliable operation.

Definition of Terms

-  **WARNING:** Describes precautions that should be observed in order to prevent injury to the user during installation or unit operation.
-  **CAUTION:** Describes precautions that should be observed in order to prevent damage to the unit or its components, which may occur during installation or unit operation if sufficient care is not taken.

GENERAL WARNINGS & CAUTIONS

1. All electrical work, if necessary, should only be performed by qualified electrical personnel. Repair to electrical components by non-certified technicians may result in personal injury and/or damage to the unit. All electrical components replaced must be genuine ClimaTemp Portable spot air conditioner, purchased from an authorized reseller.
2. The proper electrical outlet for ClimaTemp Portable spot air conditioner units must be equipped with a UL listed circuit breaker, whose specification is 15A, 30mA, response time within 0.1sec.
3. Because of potential safety hazards under a certain condition, we strongly recommend against the use of an extension cord.
4. The ClimaTemp Portable spot air conditioner are equipped with UL listed LCDI power cords. For replacement, fixed location (hard wired) or power cord lengthening (extension cord) cords are required as below, contact your reseller or a qualified electrician for approved replacement methods.

Length of Power Cord	Specifications
Less than 8m(315 inch)	14AWG
Less than 20m(787 inch)	12AWG

Note: Cross-sectional area of ground line is 14AWG.

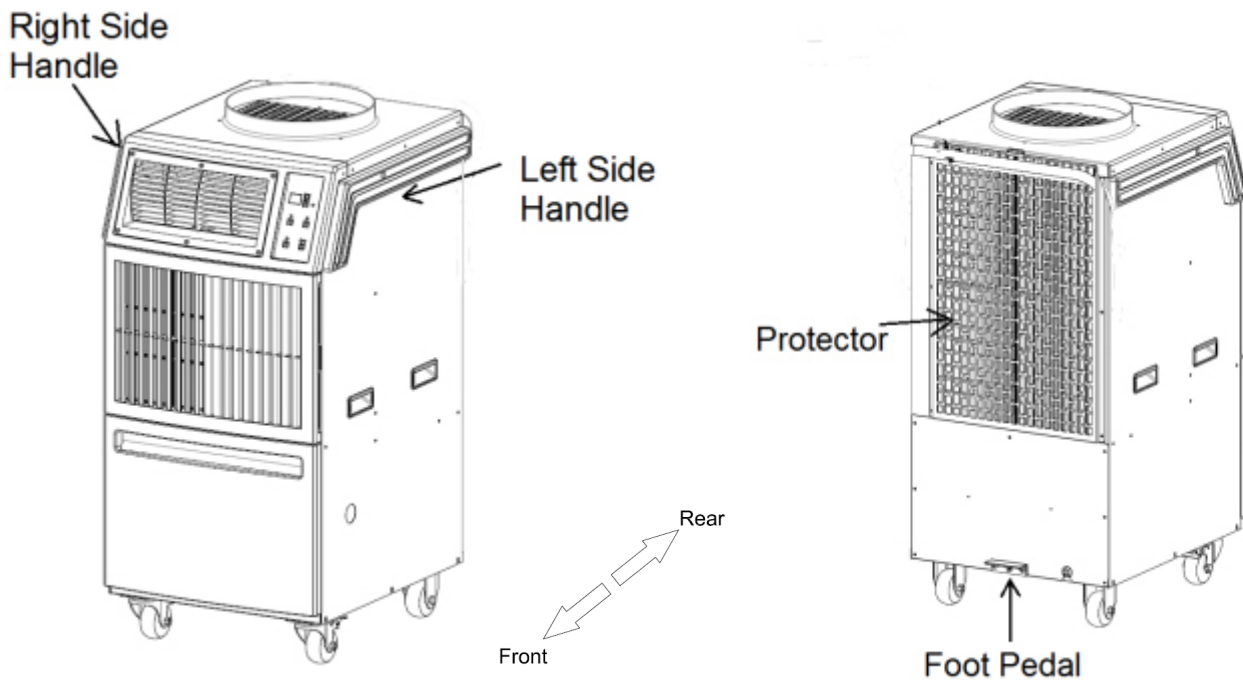
5. Never fold or place heavy objects on the power cord. This could result in damage to the power cord causing electrical shock or fire.
6. Do not place water or any other liquid on the unit. This can cause damage to the unit and increase the risk of electrical shock.
7. Do not sit or stand on the unit.

INVENTORY

After unpacking your ClimaTemp Portable spot air conditioner, please check to make sure you have the following items:

1. Portable spot air conditioner
2. Operation Manual/Product Registration

Note: If any of these items were not included in the box or appear damaged, please contact your ClimaTemp Portable spot air conditioner reseller for replacement.



INSTALLATION

Choosing an Installation Site

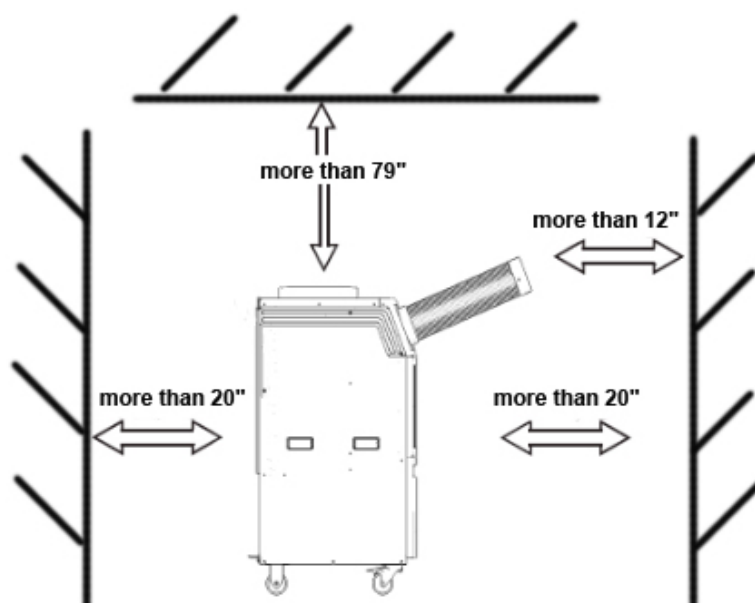
⚠ CAUTION: Following are some precautions to consider before choosing your installation site. Please review carefully as improper installation may result in personal injury or damage to the unit.

1. Do not use the unit in areas where leakage of flammable gas may occur.
2. Do not use the unit in areas where it is exposed to rain or water.
3. Do not use the unit in an environment which contains excessive amounts of corrosive gas or vapors.
4. Do not use in areas where the temperature is outside the allowable operating range.
5. Do not install the unit in sloped areas. The unit may move or topple over even if the casters are set to the LOCKED position.
6. Install the unit in areas that can withstand the weight of the unit.

MODEL	UNIT WEIGHT
CT-12 Portable spot air conditioner	136lbs

*1: Approximate weight when the drain tank is full of water.

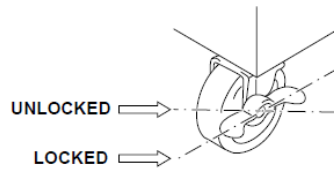
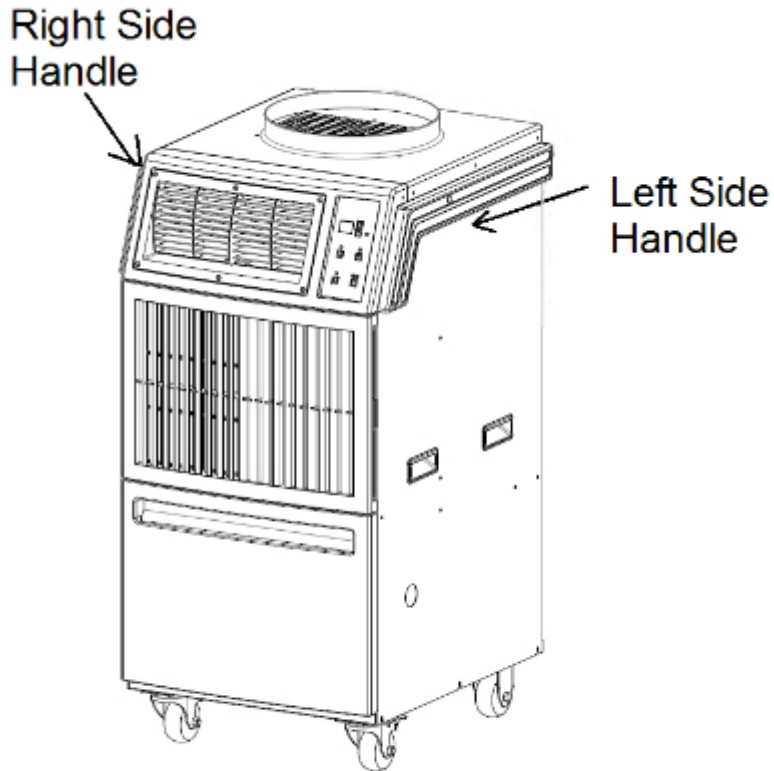
7. Do not use the unit at condition above 113 °F(45°C) or below 64 °F(18°C) .
8. When in operation, the front and back of the machine should be more than 20" from the wall or other barrier. The cold air exhaust should be at least 12" away from any barrier and hot air exhaust should be more than 79" from roof or barrier.



INSTALLATION (cont.)

Moving the Unit

Unlock the casters and push the Portable spot air conditioner unit using the side handles to a flat, level surface and set the casters back to the LOCKED position.



INSTALLATION (cont.)

Plugging in the Unit

1. Check the prongs and surface of the power cord plug for dust/dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.
2. Check the power cord, plug and prongs for damage or excess play. If any damage or excess play is found, contact your Portable spot air conditioner or a qualified technician for repair.




WARNING:

1. If the power cord or plug is damaged, replacement should only be performed by qualified electrical personnel.
2. Do not connect/disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.
3. Because of potential safety hazards under a certain condition, we strongly recommend against the use of an extension cord. However, if you still elect to use an extension cord, it is absolutely necessary that it is a UL listed, 3-wire grounding type appliance extension cord, having a 3-blade and a 3-slot receptacle that plugs into the appliance. The marked rating of the extension cord should be the following rating or equivalent.

MODEL	RATING OF EXTENSION CORD
CT-12	115V, 15A

INSTALLATION (cont.)

Plugging in the Unit (cont.)

 CAUTION: The power source should be a dedicated single outlet circuit with UL listed short-circuit and ground fault protective breaker. Do not share the AC outlet with any other instrument or equipment. The minimum power supply rating and the maximum fuse size for each corresponding model are listed below.

MODEL	MINIMUM POWER SUPPLY RATING	RECOMMENDED FUSE SIZE
CT-12	115V, single phase, 60Hz, 15A	15A maximum

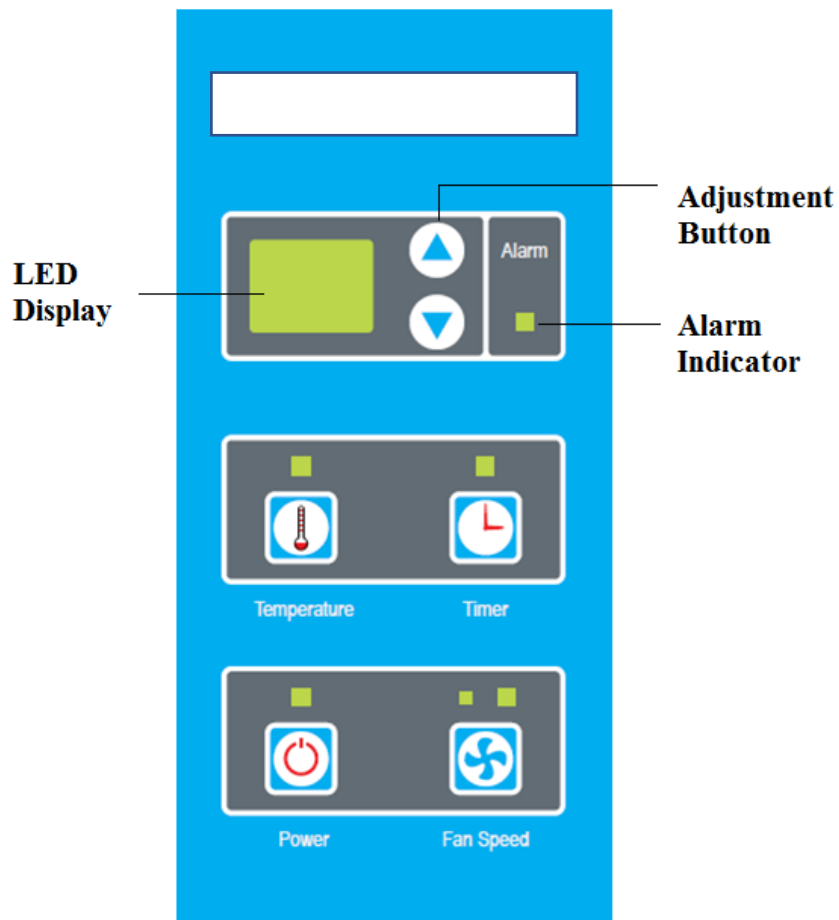
Note:

- 1. Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign matter.*
- 2. The ClimaTemp Portable spot air conditioner is equipped with UL listed LCDI cord and NEMA plug configuration. The appropriate outlet must be used for this plug type.*

OPERATION

Control Panel

Before operating the unit, it is important to familiarize yourself with the basic controls located on the control panel.



OPERATION(cont.)

Operating Method

1. Power Switch

After power on, power switch LED is on, press the POWER button to turn on and turn off the unit.

2. Air volume selection

Press Fan Speed to select the high or low air volume, the LED will display strong or weak, respectively.

3. Temperature setting

Procedure: Unplug unit from power source. While plugging the unit back into its power source press and hold the Fan Speed button; once the digital display shows CF, let go of Fan Speed button. If the current setting is in Celsius, the indicator will display °C. If the current setting is in Fahrenheit, the indicator will display °F. Press the temperature button to change to C or press the timer button to change to F. Leave the settings by pressing the Fan Speed button.

- "the unit will turn off" change to "the unit will turn off".

Press up and down adjustment button to set the temperature you need, 3 seconds later the display will show the temperature of the environment now. The range is 18°C~35°C (64°F~113°F). When the environment temperature is higher than the setting temperature, the compressor starts working, producing cold air. When the environment temperature is lower than the setting temperature, the compressor stops working.

4. Time setting

Press timer button, the timer LED turns on, temperature light will turn off, the display will show the time our unit will turn off (12 hours), press up and down button to change the time(1-12 hours), 3 seconds later the display will show the temperature of the environment again, the temperature light will turn on.

5. Alarm indicator

When the unit's condensate bucket is full of water, or an overcurrent or overheat, the alarm indicator will turn on. When the unit stops working, LED display will show the error code.

OPERATION (cont.)

Empty the Drain Tank

During COOL mode, condensate water accumulates in the drain tank.

When the drain tank becomes full, alarm indicator blinks and LED displays “FL”, then the unit will cut off the power supply and stop.

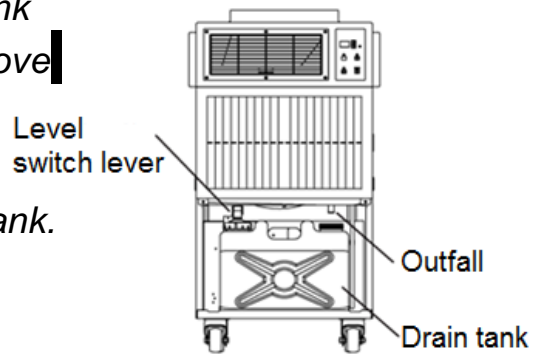
Note: If you want to empty the drain tank, please wait after the unit stops.

1. Open the drain tank door.
2. Pull the drain tank from the unit.
3. Remove the cap and empty the drain tank.
4. Replace the cap and return the drain tank to the unit.
5. Close the drain tank door.
6. Press the Power button to restart the unit.

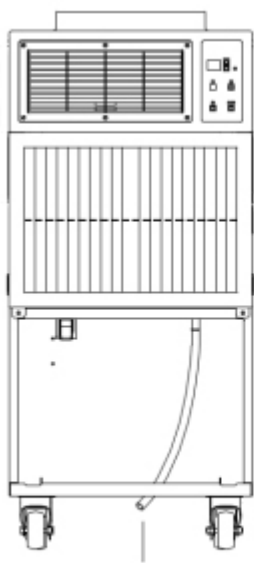


OPERATION (cont.)

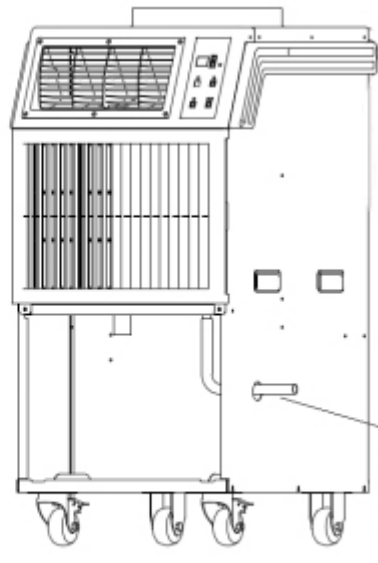
- When the “Tank Full” light illuminates, the unit will cut off the power supply and stop. Please open the drain tank door and pull out the drain tank from the unit, remove the cap and empty the drain tank.
- Carefully remove the water tank and do not damage the top components on the top of water tank.
- Make sure the water tank is in correct position, otherwise it may cause water to leak and damage the unit and surroundings.



Note: The condensed water can be directly discharged through the drains. Remove the drain tank, connect the drain outlet directly to the machine through the bottom side discharge hose or right side discharge hose.



Bottom Side Discharge Horse



Right Side Discharge Horse

DAILY INSPECTION & MAINTENANCE

Empty the Drain Tank

To empty the drain tank, refer to instructions on page 12.

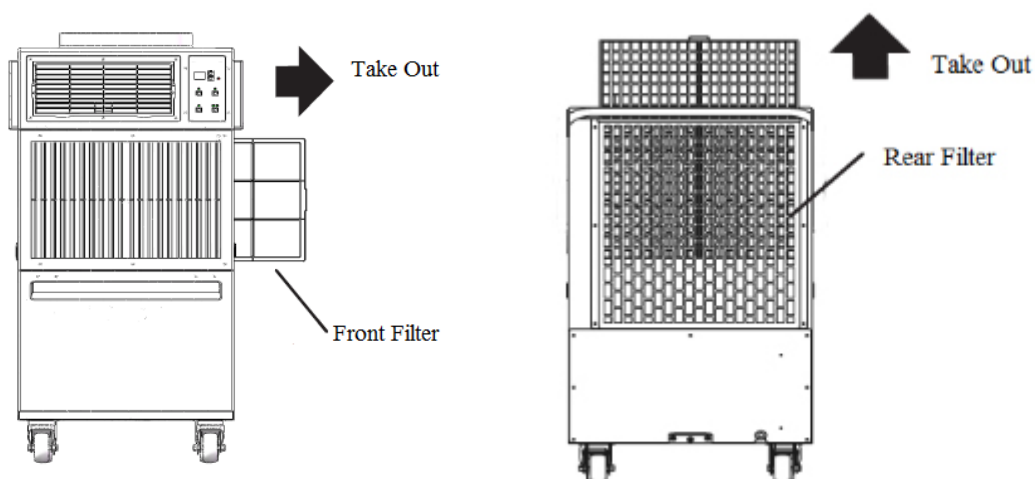
Clean the Air Filters

Clean the air filters once a week. If the unit is used in a dusty environment, more frequent cleaning may be required. A dirty filter can reduce air output resulting in a decrease in the cooling capacity and damage to the compressor and components.

Filter Removal Method

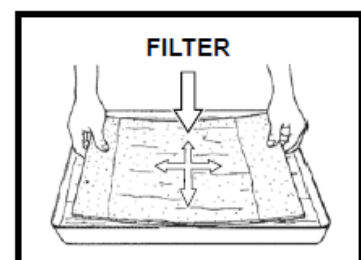
1. Turn the unit off by pressing the Power button.
2. Remove the two air filters.

Note: to remove the filter, open the front panel and side panel filter doors. On the front panel door, carefully remove the filter retainer from its clips by pulling on the retainer at those two points. On the side panel door, carefully remove the filter element from the wire frame.



Filter Cleaning Method

1. Remove dust from the element with a vacuum cleaner, or rinse in cold or lukewarm water. If the element is extremely dirty, wash with a neutral detergent.
2. After the element has been cleaned, reinstall.



DAILY INSPECTION & MAINTENANCE (cont.)

In-Season/Off-Season Inspection & Maintenance

In-Season



WARNING: To prevent an accident due to electrical shock, perform inspection and maintenance only after unplugging the power cord.

1. Check the prongs and surface of the power cord plug for dust and/or dirt. If dust and/or dirt are present, wipe off with a clean dry cloth.
2. Check the power cord, plug and prongs for damage or excess play. If any damage or excess play is found, contact your Portable spot air conditioner reseller or a qualified technician for repair.
3. Check the air filters and drain tank.
4. Clean the outside of the unit(s) with a damp cloth or mild nonabrasive cleaner.

Off-Season

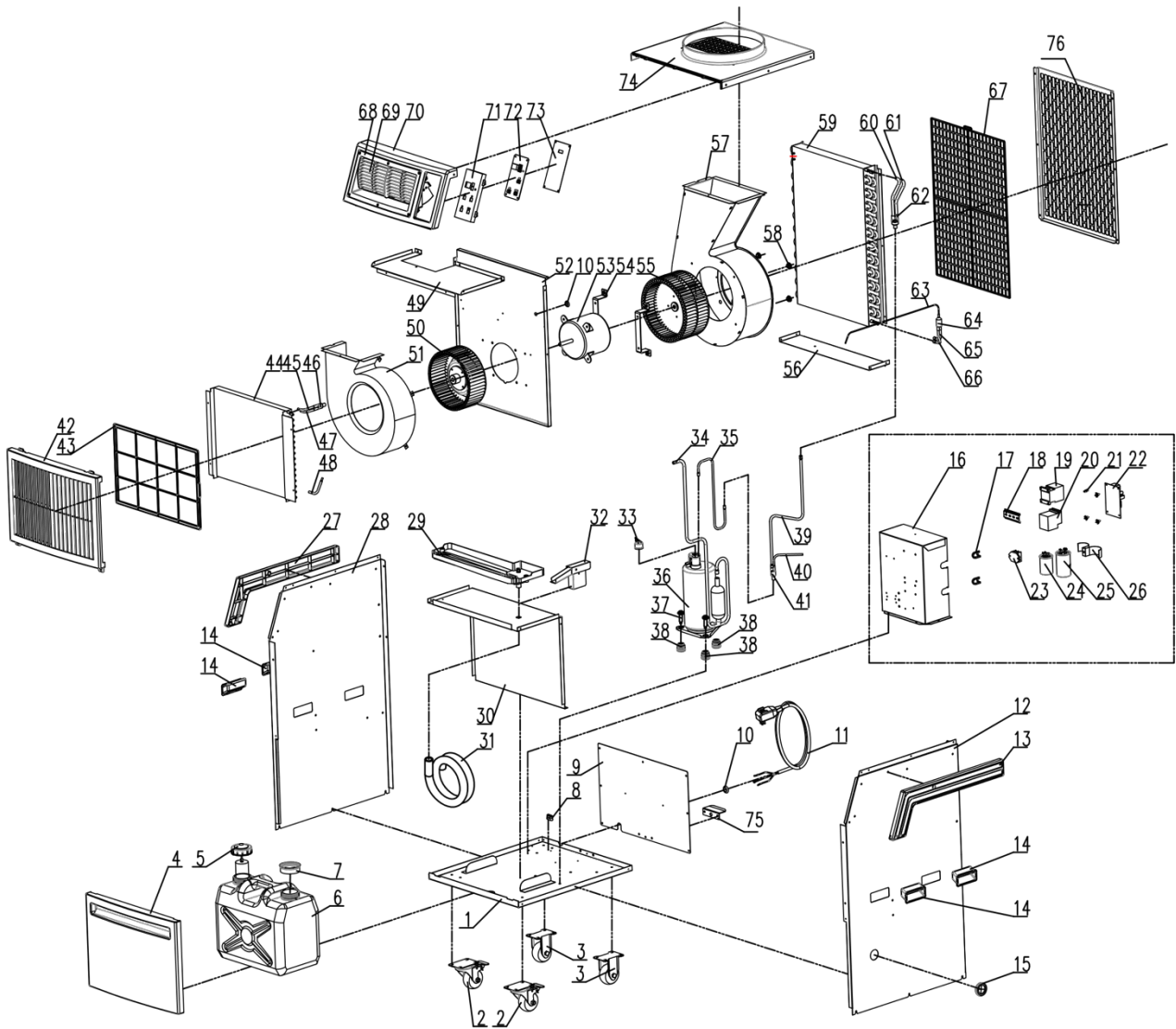
1. Disconnect the power cord from the AC outlet.
2. Check the prongs and surface of the power cord plug for dust and/or dirt. If dust and/or dirt are present, wipe off with a clean dry cloth.
3. Check the power cord, plug and prongs for damage or excess play. If any damage or excess play is found, contact your Portable spot air conditioner reseller or a qualified technician for repair.
4. Clean the air filters.
5. Empty all water from the drain tank.

TROUBLESHOOTING

Check the following items before calling your ClimaTemp Portable spot air conditioner reseller or a qualified technician.

CONDITION	POSSIBLE CAUSE	REMEDY
Unit does not operate	1. Ground fault breaker trip or LCDI power cord trip.	Reset breaker or reset power cord.
	2. Drain tank is full.	Empty the drain tank.
Water leaking	1. Drain port plug	1. Dredge drains.
	2. Drain Tank is not in the right place.	2. Put the drain tank in the right position, note the relative position of the float and lever.
	3. Dust and dirty are on the front filter.	3. Clean the front filter.
	4. The water lever of drain tank is too high.	4. Pull out the drain tank and empty it.
No cooling.	1. The surface of the condenser is dirty.	1. Clean the surface of the condenser.
	2. Hot exhaust fan malfunction.	2. Repair, replacement heat exhaust fan.
	3. Temperature of the external environment is too high	3. Use the unit only if surrounding temperature is between 64F and 113F
	4.The capacitor of the compressor damages	4.Replace the capacitor
	5. Input voltage is too high or too low.	5. Select the appropriate voltage.
	6. Compressor thermal overload protection	6. Restart the unit after it is cool.
	7. Compressor motor damages	7. Repair, replace Compressor motor

If conditions persist after the above actions have been taken, turn the unit off, disconnect the power and contact your ClimaTemp Portable spot air conditioner reseller or a qualified technician.



OPERATION MANUAL

PARTS LIST

Item	Parts No.	Description	Q'ty	Item	Parts No.	Description	Q'ty
1	PSAC35-12-04-01a	Base Frame Assy.	1	45	PSAC35-16-10	Muffler 3	1
2	PSAC35-56-02	Swival Wheel	2	46	PSAC45AA-16-12	Tee	1
3	PSAC35-56-01	Rigid Wheel	2	47	PSAC35-16-09	Muffler 2	1
4	PSAC35-20-06	Below Side Plate	1	48	PSAC35-16-07	Intake Pipe	1
5	CF-20-08A	Float Assy.	1	49	PSAC3511-04	Outlet Plate	1
6	PSAC35-20-08	Water Tank	1	50	PSAC35-14-01	Evaporator Centrifugal Fan	1
7	DM30-26-01	Tank Rubber Ring	1	51	PSAC35-11-09	Evaporator Turbin Assy.	1
8	Power Cord Clamps	Power Cable Clip	1	52	PSAC35-11-02	Up Bulkhead	1
9	PSAC35-12-03a	Rear Cover	1	53	PSAC3511RA-30-01	Fan Motor	1
10	Over Line Retainer Φ18	Over Line Retainer Φ18	2	54	PSAC35-11-07	Condenser Turbin Bracket	2
11	Power Cord	With Leakage Protection	1	55	PSAC35-14-02	Condenser Centrifugal Fan	1
12	PSAC35-12-02a	Right Side Panel	1	56	PSAC35-11-06	Support Plate	1
13	PSAC35-20-09	Right Chafing Strip	1	57	PSAC35-11-10	Condenser Turbin Assy.	1
14	LQ4-20-12A	Handle	4	58	PSAC35-20-16	Plastic Plug	4
15	Over Line Retainer Φ38	Over Line Retainer Φ38	1	59	PSAC35-50-02a	Condenser	1
16	PSAC35-11-05	Electrical Box	1	60	PSAC35-16-03	Gas Vent Tube 3	1
17	U-wire protective sleeve	U-wire protective sleeve	2	61	PSAC35-16-04	Gas Vent Tube 4	1
18	Electrical Installation Guide	Electrical Installation Guide	1	62	PSAC65-16-12	Liquid Collection Tee	1
19	3RT6018-1AF01	Siemens Contactor	1	63	Φ3.2*Φ2.0*800	Capillary	1
20	3RU6116-4ABO	Siemens Thermal Relay	1	64	PSAC45AA-16-11	Filter	1
21	Electric Control Board Holder	Electric Control Board Holder	4	65	PSAC35-16-05	Condenser Outlet Pipe 1	1
22	Electric Control Panels	Electric Control Panels	1	66	PSAC35-16-06	Condenser Outlet Pipe 2	2
23	Two-wire Connector	Two-wire Connector	1	67	PSAC32-26-01	Condenser Filter	1

OPERATION MANUAL

Item	Parts No.	Description	Q'ty	Item	Parts No.	Description	Q'ty
24	CBB65 25uF250V	Capacitor, Fan	1	68	PSAC35-20-10	Outlet Window	1
25	250V60uF CBB65	Capacitor ,Compressor	1	69	PSAC35-20-02	Blind	1
26	LQ4-11-18B	Capacitor Clip	1	70	PSAC35-20-05	Outlet Side Plate	1
27	PSAC35-20-14	Left Chafing Strip	1	71	PSAC35-20-11	Electrical Box	1
28	PSAC35-12-01a	Left side Panel	1	72	Electric control panel	Electric control panel	1
29	PSAC35-20-03	Water Tray	1	73	PSAC35-20-12	Cover, Capacitor Box	1
30	PSAC35-11-03	Lower Baffle Plate	1	74	PSAC35-20-07	Top Cover	1
31	Outlet Pipe	Outlet Pipe	1	75	PSAC35-11-11a	Foot Pedal	1
32	PSAC35-11-08	Micro-switch, Pendulum Bracket	1	76	PSAC35-12-06a	Rear Protective Screen	1
33	MRA12241-12038	Compressor Thermal Protection	1				
34	PSAC35-16-08	Muffler 1	1				
35	PSAC35-16-01	Gas Vent Tube 1	1				
36	44A281B	Compressor	1				
37	LQ3A-10-01	Compressor Pump Foot	3				
38	Rubber Pump Foot	Rubber Pump Foot	3				
39	PSAC35-16-02	Gas Vent Tube 2	1				
40	LQ4-16-03	Charge Pipe	1				
41	PSAC45AA-16-13	Charge Tee	1				
42	PSAC35-20-04	Cover Plate ,Upper	1				
43	PSAC35-20-13	Evaporator Filter Mesh	1				
44	PSAC35-50-01	Evaporator	1				