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Another (Whynter) Innovation
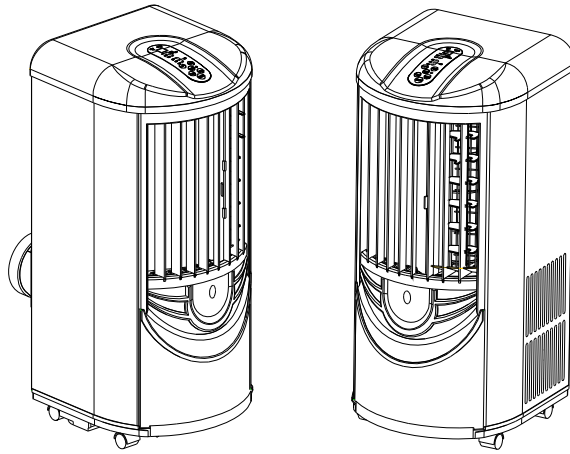
SNO PORTABLE AIR CONDITIONER

OWNER'S MANUAL

MODEL: ARC-10D

This owner's manual provides important instructions on safe installation, use and maintenance of this portable air conditioner. Please read carefully and save for future reference.

__Index__

<u>Introduction</u>

Thank you for purchasing a Whynter SNO portable air conditioner. We would like you to enjoy the many benefits this unit offers, so please read this manual carefully and take full advantage of the many advanced features that you SNO portable air conditioner offers you. After reading this manual, please keep it in a safe place for future reference.

This unit is designed for improving living and working comfort by providing cooling, dehumidifying, fan-only and automatic operation mode with a very simple installation required. With its quiet operation and sleek appearance, you will enjoy its convenience and comfort.

<u>Energy Saving Tips:</u>
- Please use the unit in the recommended room size (refer to SPECIFICATIONS).
- Do not locate the air conditioner where furniture or other objects can obstruct the air flow.
- Keep blinds/curtains closed during the sunniest part of the day.
- Close the fireplace damper and floor or wall grills so that cool air does not escape through the chimney or ductwork.
- Keep the filters clean.
- Avoid opening doors frequently.
- To provide cooling to a room, this portable air conditioner must always be used with its exhaust hose vented to the outside.

NOTE: It is recommended to turn on the air conditioner when the room temperature is around 75 degree Fahrenheit. Do not wait until the room is excessively hot to turn on the unit.

Technical Specification

| Model	ARC-10D
Electrical Power Supply	115V / 60Hz 1Ph
Rated Power Consumption During Cooling	See rating label on unit
Dehumidifying capacity	38 Pints per 24 hours
Refrigeration & Load	R22 500g
Cooling Side Fan Speed	3 Speed
Airflow Circulation Volume	340/260/220m^3/h
Noise Level	50dB(A)
Dimension(W*D*H)	14" x 13.8" x 31"
Net Weight	55 Pounds
Programming Timer	1-24Hr
Remote Control	Y
Recommended Room Size	300 sq. ft.

Note:

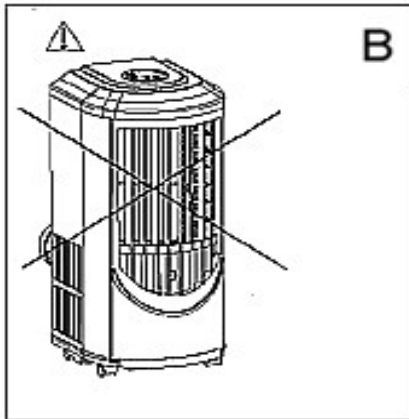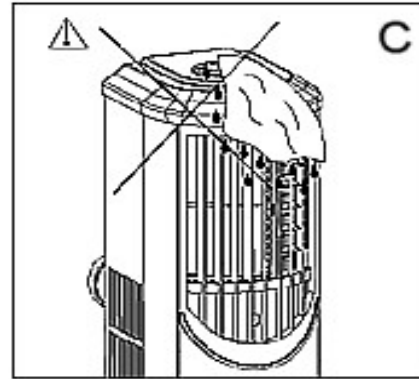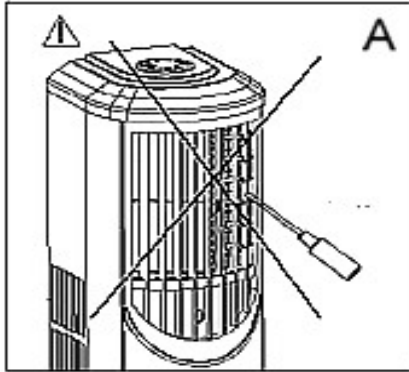1. The above data are obtained at conditioned:

 Cooling condition: Dry bulb/Wet bulb:95 / 83°F(35/28.3) according to American standard
ANSI/ASHARE standard 128-2001

2. Operating Limits During Cooling

Maximum Condition: Dry bulb/Wet bulb:104/80 °F (40/26.7)

Minimum Condition: Dry bulb/Wet bulb:64.4/57.2°F(18/14)
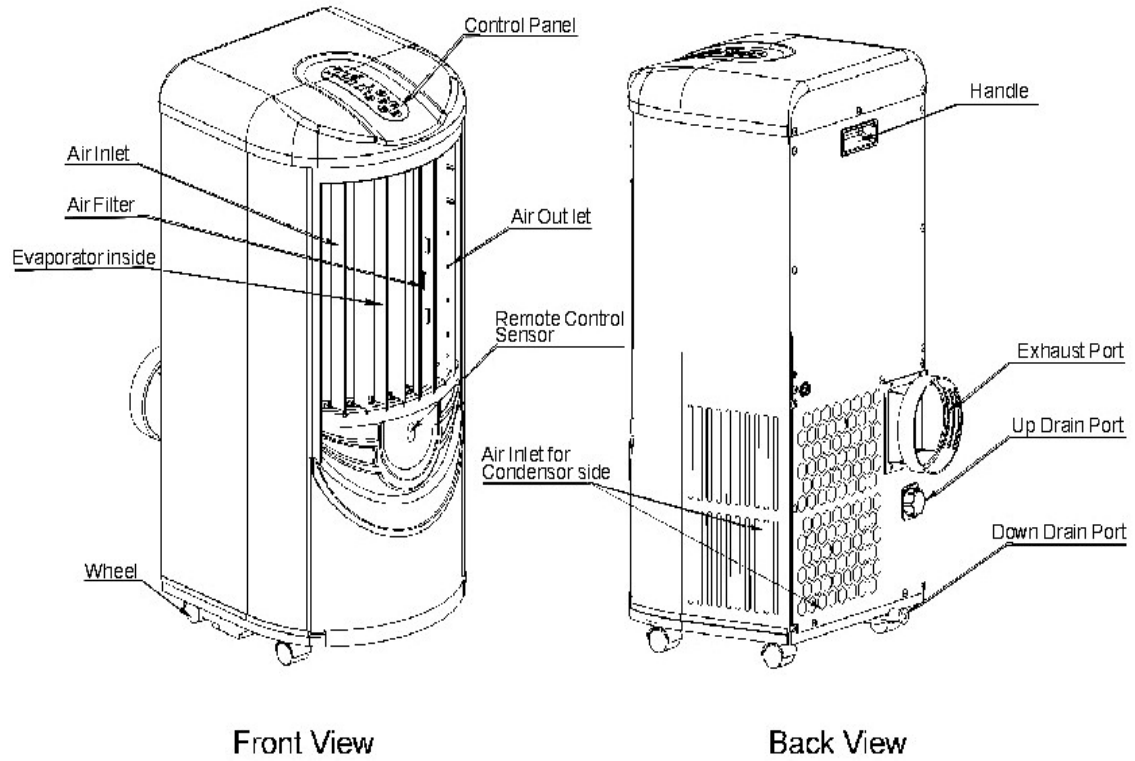
Safety Precautions
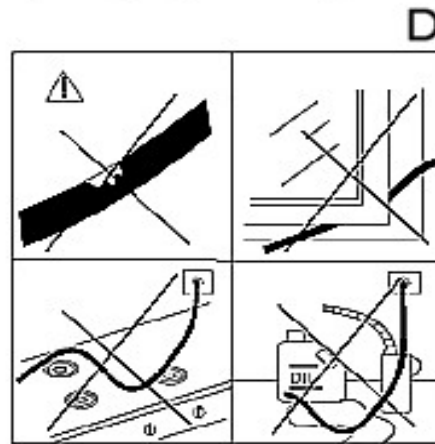
1. Do not insert anything, cover or obstruct the inlet and outlet grilles. (Fig. A)
2. Make sure all children are properly supervised around this portable air conditioner. (Fig. B)
3. Do not use an excessively wet cloth, industrial solvents, oil-based products to clean this portable air conditioner. (Fig. C)
4. The power cable (Fig. D) must not:

   -Come into contact with liquid of any kind; danger of electric shock and/or fire;

   -be squeezed and/or come into contact with sharp surface;

   -be used to drag the unit;

   -be used if damaged;

   -be handled with damp or wet hands;

   -be left in a tangled coil when the unit is working;

   -be placed near a source of heat; always unroll completely to avoid the possibility of overheating.

   If the power supply cord is damaged, it must be replaced exclusively by an authorized service agent.

5. Make sure this unit is connected to a correctly grounded power supply outlet. Do not use an extension cord. The power cord is UL listed. It has a bulit-in L.C.D.I (Leakage, Current, Detection, Interruption) circuit breaker for added safety.

6. Do not sit or place objects on the unit.

7. Do not use this unit inside closets, cabinets and/or cramped spaces between furniture;

8. Do not repair, disassemble and/or modify the unit by yourself.

9. Do not operate this unit without the filter.

10. Do not turn this unit on and off by using the plugging and unplug. Always use the ON/OFF switch.

11. Do you use harsh chemical to clean the filter. Dry thoroughly before inserting the filter into the unit.

12. To avoid the risk of shock, the product should never be used in bathrooms, shower rooms, or in any other steamy or wet areas.

13. Transport the portable air conditioner in an upright position only. If the unit is tipped over, make sure it stands upright for at least 3 hours prior to turning it on.

14. Always place the unit on a level surface.

15. In the event of fire, use carbon dioxide(CO_2) extinguishers. Do not use water or powder extinguishers.

16. In order to cool, the hot air from the exhaust port in the back of the portable air conditioner must be exhaust to the outside of the room.

17. Do not bend or crush the exhaust hose while in use.

18. Do not add extra length to the exhaust hose for more than 10' long. This will reduce the cooling efficiency of the portable air conditioner.

19. This unit is designed to operate in an ambient temperature of 64 – 100 Fahrenheit.

20. This unit is designed for residential use.

21. Always allow air flow around the portable air conditioner for at least 20'.

22. Always turn off the portable air conditioner when not in use.

23. Always turn off the portable air conditioner when cleaning, changing filter, and transporting.

24. If the electrical socket is different from the plug, have a licensed professional electrician replace the socket with a suitable one. Do not use adapter plugs, multiple sockets or extension cord for this unit.

25. At the end of each season, all water must be drained from the unit and filter must be cleaned before storage.
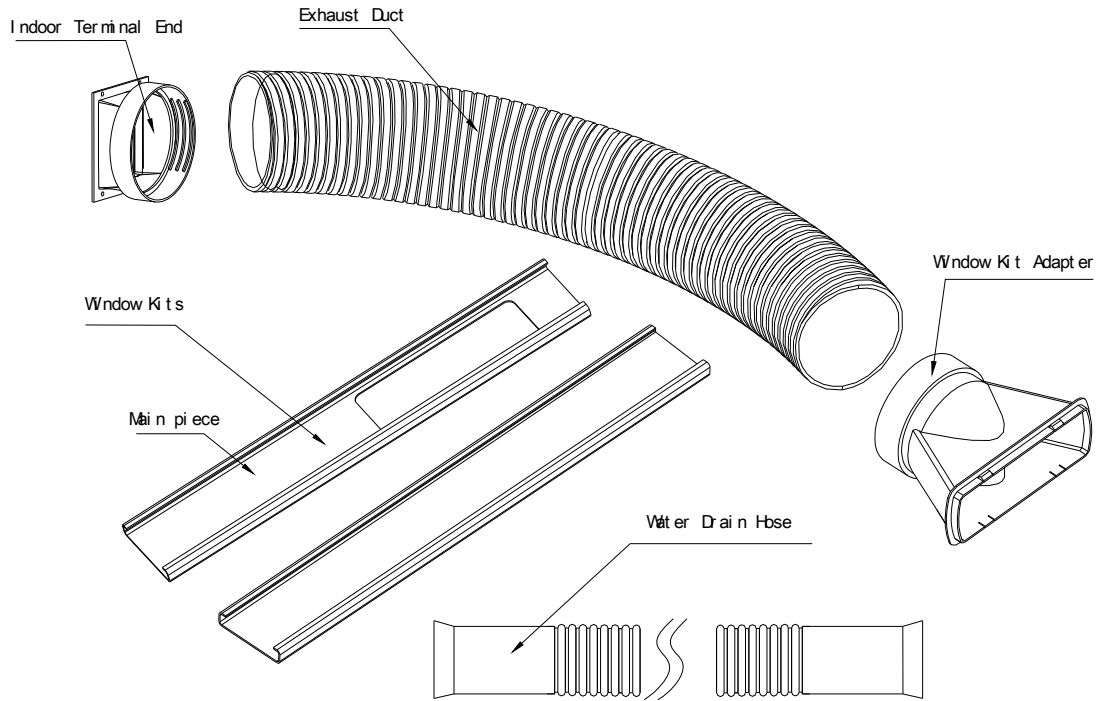
THE MANUFACTURER DISCLAIMS ANY RESPONSIBILITY IF THE ABOVE INSTRUCTIONS ARE NOT FOLLOWED.

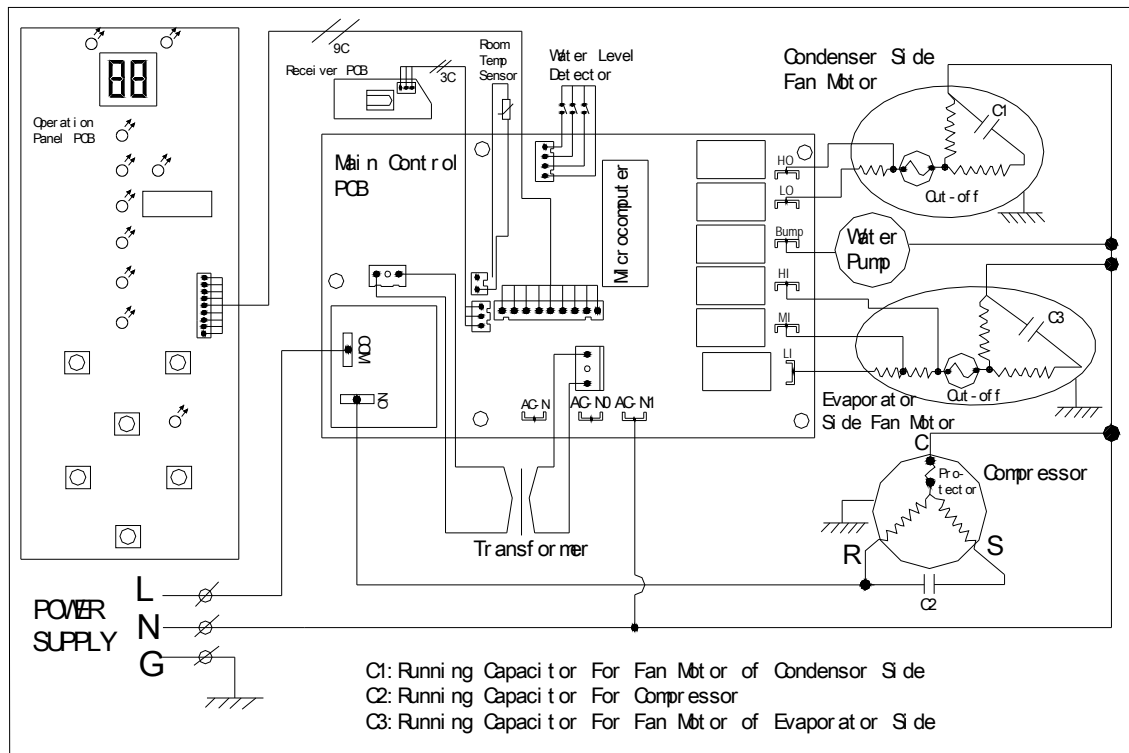# Parts and Accessories

Parts

Control Panel

Air Inlet

Air Filter

Evaporator inside

Air Out let

Remote Control Sensor

Air Inlet for Condensor side

Wheel

Handle

Exhaust Port

Up Drain Port

Down Drain Port

Front View   Back View

Accessories

Indoor Terminal End

Exhaust Duct

Window Kit Adapter

Window Kits

Main piece

Water Drain Hose

Electrical Diagram

88

Operation
Panel PCB

9C

Receiver PCB

3C

Room
Temp
Sensor

Water Level
Detector

Condenser Side
Fan Motor

C1

Cut-off

Main Control
PCB

Microcomputer

HO

LO

Bump

Water
Pump

HI

C3

MI

LI

Cut-off

COM

Evaporator
Side Fan Motor

NO

AC-N   AC-NO AC-N1

C

Compressor

Pro-
tector

R   S

Transformer

C2

POWER
SUPPLY

L
N
G

C1: Running Capacitor For Fan Motor of Condensor Side
C2: Running Capacitor For Compressor
C3: Running Capacitor For Fan Motor of Evaporator Side

Installation

When you use the unit as an air conditioner or a dehumidifier, the hot air must be exhausted out of the room to complete the air exchange of the condenser. When the unit is operating in fan-only mode, no exhaust is required.

If you use this portable air conditioner in cooling mode without venting the exhaust hose to the outside of the room that you are cooling, the temperature in the room will not be cooled because the hot air is still coming out from the rear of the unit even when the front of the unit is blowing cool air.

Exhaust hose Installation

The exhaust hose must be installed onto the unit.
1. Pull out about 6" of one end of the exhaust hose.
2. Screw the exhaust connector on the exhaust hose in a clockwise motion.
3. Snap the exhaust connector in place in the back of the unit.

Note:

Mounting the exhaust pipe

. The supplied exhaust hose can be extende from 40cm to 160cm for mounting. It is recommended that you use the shortest possible length of hose.

. Take care to prevent any kink or blend in the middle of the exhaust hose, as this will trap hot exhaust air, which will radiate bach into the room and effect the cooling function of the unit.
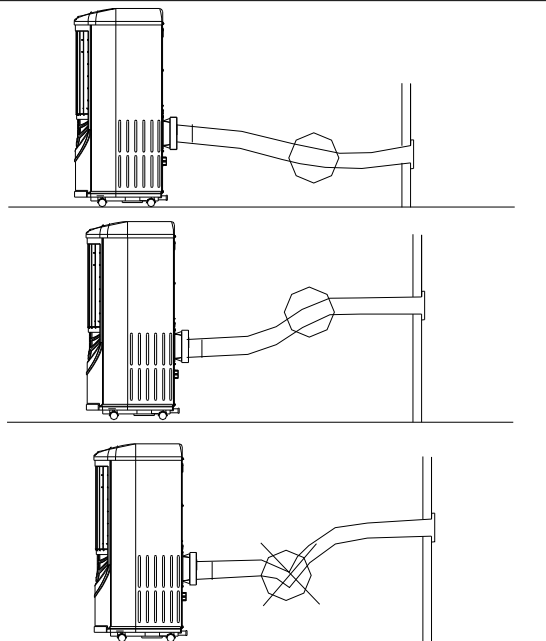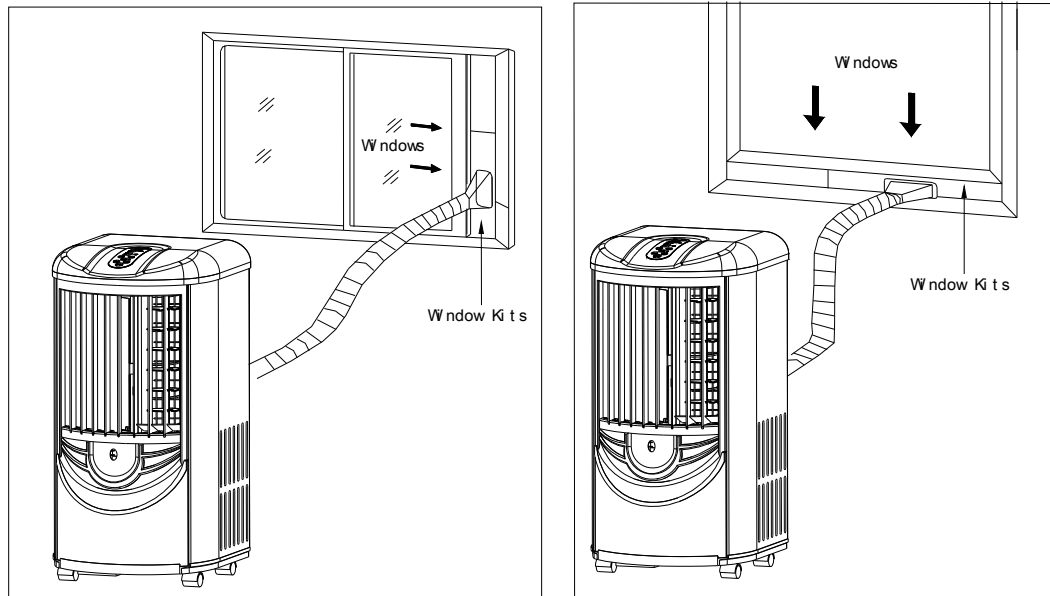

Warning!

The length of the exhaust pipe is specially designed according to the specification of this product. Do not replace or extend it with your own hose as this could cause the unit to malfunction.
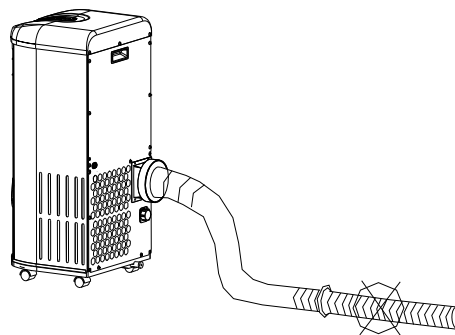
1. Window Installation

a)   Make sure the exhaust hose is properly installed onto the portable air conditioner.
b)   Open window or sliding door for approximately 5" (130 mm)
c)   Adjust the length of the window kit to the same length and width of the opening of the window or the sliding door. Cut the window piece if necessary to fit the length of your window or sliding door.
d)   Place the window kit on your window or sliding door, with the exhaust hole as near to the portable air conditioner as possible.
e)   Close the window or sliding door, on the window kit. For long term installation, you may screw the window kit into your window frame.
f)   Adjust the length of the exhaust hose and amount the window kit adaptor to the window kit.

NOTE: When using the window kit on a window or sliding door it will cause the window or sliding door not to be properly closed and locked. Additional security measurements maybe needed.

2. Wall Installation

a) Make sure the exhaust hose is properly installed onto the portable air conditioner.
b) Make a hole of 5 1/8" diameter in the wall.
c) Insert as much as exhaust hose as needed through the hole.
NOTE: Make sure to have a qualified professional to make the hole to avoid the possibility of injury or damage to the structure. Make sure that the hole is covered when it is not used by the portable air conditioner.

Operation

Control Panel
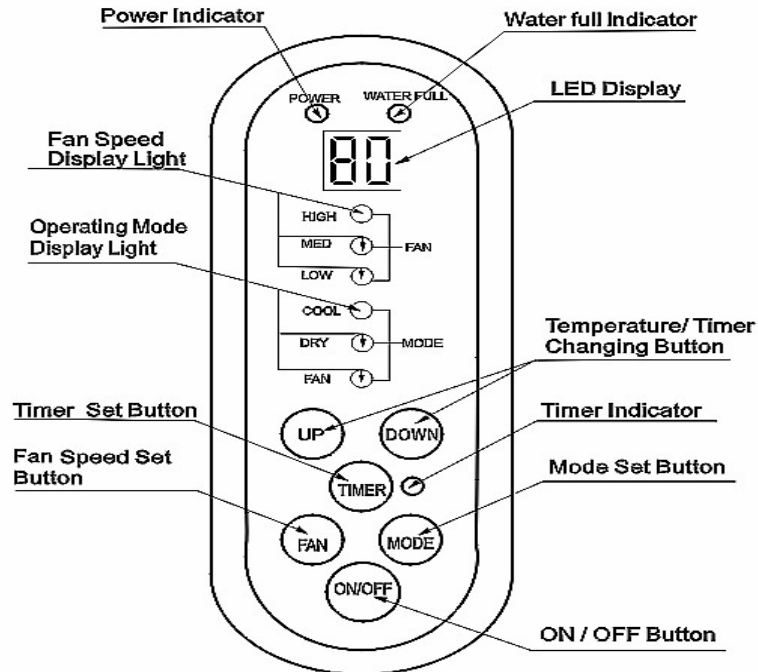
1) <img ON/OFF button>: On/Off   Button
Turns the unit on and off.

2) <img MODE button>: Mode Selection Button

Selects the operation mode: Fan-Only Mode, Dehumidifying Mode, and Cooling Mode.

3) <img FAN button>:Fan Speed Button
Selects fan speed: High, Medium or Low speed.

4) <img UP button> or <img DOWN button>: Temperature or Time Button
These two buttons are used to set to your desired temperature or adjust the time setting when using the timer function.
NOTE: The temperature can be displayed in Celsius or Fahrenheit. To change from one scale to another, press and hold the On/Off button for 20 seconds.

5) <img TIMER button>:Timer Button
Used to set or cancel timer. When the unit is off, the "On Timer" function can be used to set the time to turn the unit on. When the unit is on, the "Off Timer"

function can be used to set the time to turn the unit off.

TIME SETTING

How to set the Off Timer:

When the unit is on, press this Timer button, "3" will flash in the display window and timer indicator will be on. Press the " (UP) " or " (DOWN) " button while the number is flashing to select the time delay. You may set the timer to turn off the unit in between 1 hour to 24 hours. Ten seconds after you press the Temperature / Timer buttons, the timer display will stop flashing. Then the time in the timer display will decrease in 1 hour increments. When the timer display reaches "0" , the unit will turn off.

How to set the On Timer:

When the unit is off and plugged in, press this Timer button, " 3 " will flash in the display window and timer indicator will be on. Press the " (UP) " or " (DOWN) " button while the number is flashing to select the time delay. You may set the timer to turn off the unit in between 1 hour to 24 hours. The unit will start up using the last setting it was on when it was turned off. Then the time in the timer display will decrease in 1 hour increments. When the timer display reaches "0" , the unit will turn on.

How to change the time after it has been set:

When the timer is set, press the timer button. The time in the timer display will begin to blink. Press the timer button again and the time will disappear from the Timer Display and an 'F' will be displayed. This indicates that the timer has been cancelled.

Remote Control
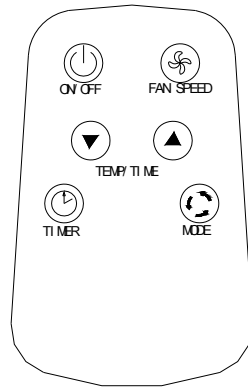
The six buttons on the remote controller are same as the six buttons on the control panel of the unit.

This remote control uses a lithium battery (Model:CR2025). Install the batteries before using the remote control.

Leakage Current Detection and Interruption Plug Testing

This unit is provided with a Leakage Current Detection and Interruption (L.C.D.I.) built into the plug of the power supply cord. This device provides protection to reduce risk of fire due to arcing faults in the power supply cord. Before use, follow the Plug Testing Instructions to ensure that the (LCDI) circuit is functioning properly:

1. Press Test button. Unit should trip.
2. Press Reset button firmly.

DO NOT USE THE UNIT IF ABOVE TEST FAILS

Do not use the TEST and RESET buttons as on/off switch. They should be only used for testing purpose.
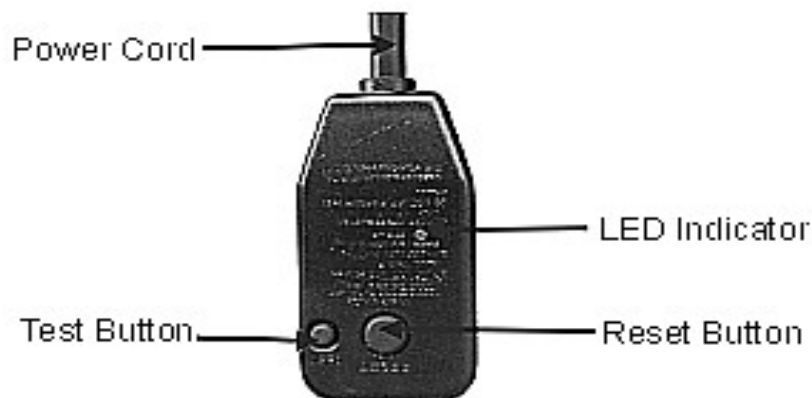
COOLING

1)   Plug the Power Cord to the power outlet.
2)   Turn on the unit by pressing the ON/OFF Button.
3)   Press Mode Button until the icon next to "COOL" turns on.
4)   Set the thermostat using the Temperature / Timer buttons. The thermostat is adjustable between 64°F-90°F.
5)   Select the fan speed by pressing the Fan Speed Selection Button.
The cooling mode cools and dehumidifies the air. If the ambient temperature drops below the set temperature, the compressor turns off and the unit switches to the Fan only mode. When the temperature rises above the set temperature, the compressor turns on again.
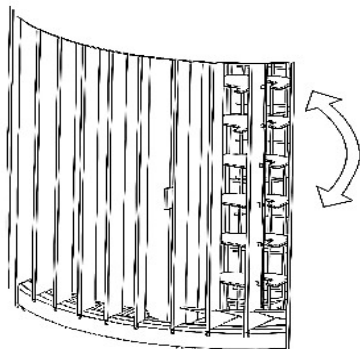
DEHUMIDIFYING

1)   Plug the Power Cord to the power outlet.
2)   Turn on the unit by pressing the ON/OFF Button.
3)   Press Mode Button until the icon next to "DRY" turns on.
During the dehumidifying mode, the unit will condense water out of the air and exhaust it through the exhaust hose. The ambient temperature in the room may drop by a few degrees.
The fan always run on low speed while in the dehumidifying mode. If you do not use the exhaust hose, you will need to manually drain the water from the unit. The dehumidifying mode will not work in temperatures below 64°F.

FAN ONLY

1)   Plug the Power Cord to the power outlet.
2)   Turn on the unit by pressing the ON/OFF Button .
3)   Press Mode Button until the icon next to "FAN" turns on.
4)   Select the fan speed by pressing the Fan Speed Selection Button.
No temperature setting is needed for fan-only mode. Also, fan-only mode does not require that the exhaust hose be attached.

ADJUSTING LOUVERS

The horizontal louvers can be adjusted up and down by gently moving them to the desired position to help direct airflow.

WATER DRAINAGE

All portable air conditioners dehumidify the air as they cool. This Whynter SNO portable air conditioner is designed to evaporate and exhaust the condensed water. When using the Cooling or Dehumidifying modes under extremely humid conditioners, the internal water tray may be filled completely. If this happens, the Water Level indicator on the control panel will light and the compressor will shut off. The unit will continue to operate and exhaust water until the water level drops. Then the compressor will come back on and the unit will begin cooling. If you do not want to wait for the unit to exhaust the water out, you can manually drain the water from the unit.

If continuous drainage option is not used, please insert the second rubber stopper to the upper drain port.

Manual Drainage:
Turn the unit off., unscrew the drain cap and/or the rubber stopper from the upper drain port. Then connect the drain hose to the upper drain port and put the other end of the drain hose in a container. Turn the unit back on and the internal drain pump will pump the water out. When the flow of the water stops, you can turn off the unit. Remove the drain hose and screw the drain cap and/or the rubber stopper on. Turn the unit on and it will begin cooling and dehumidifying again.
Note: If no water comes out from the upper drain port, drain the water from the lower drain port.

Drain Water from Up Drain Port:
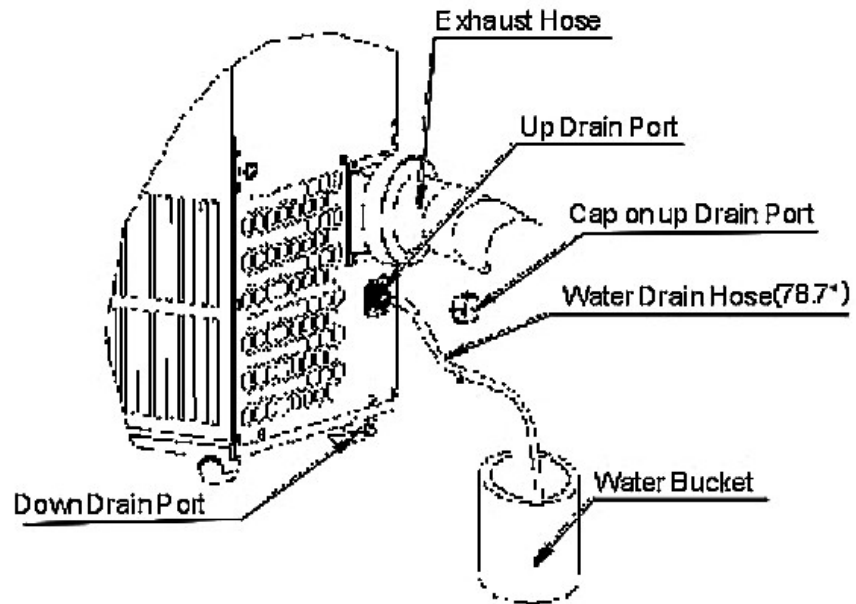
Option: Drain water by Garden hose
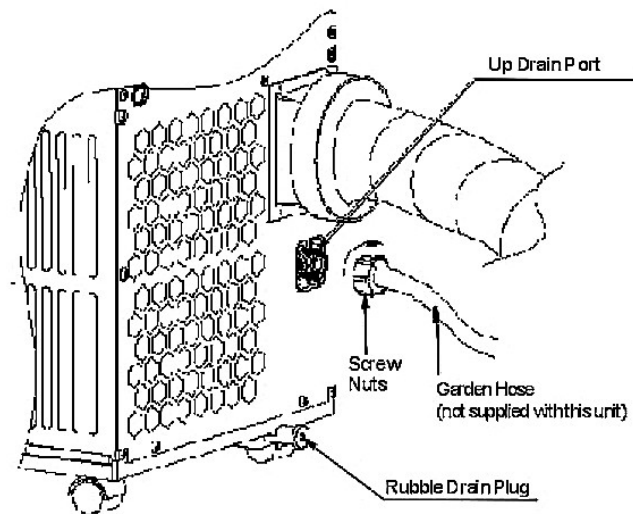
If the provided water hose is not long enough, you can drain by using a garden hose. The diameter of the outer port is designed to fit the screw nut of a regular garden hose.

Maintenance

⚠️ Make sure the unit is turned off and unplugged before performing any maintenance.

Do not immerse the unit in water or other liquids.

Do not pour liquids into the unit.

Some parts of the unit may have shape edges, be careful when handling those parts.

FILTER

This portable air conditioner comes with a washable filter that filters dust or other impurities in the air. This filter should be cleaned about once every two weeks or as needed. If it becomes clogged with dust, the airflow volume will reduce and the cooling efficiency will be lower.

1. Remove filter from the filter compartment in front of the unit.

2. Wash the air filter by immersing it into warm water (not above104 F) and gently scrubbing it with a gentle soap.

3. Rinse the filter and dry it thoroughly before putting it back into the unit.

If the filter is torn or unusable, order a new filter by calling our service department.
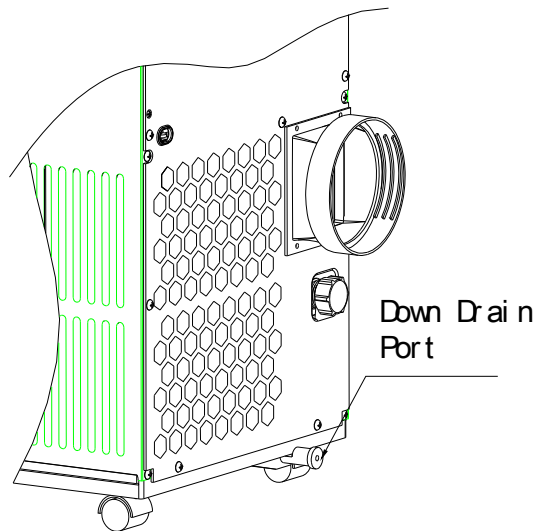
EXTERIOR

Clean the plastic parts of the unit with a slightly damp cloth.

Clean the stainless steel parts of the unit with stainless steel cleaner.

Never use strong chemicals, oil-based products, detergents to clean the unit.

END OF SEASON STORAGE

Down Drain
Port

1. On a warm day, turn on the unit at Fan-Only mode for a couple hours to dry all condensation inside the unit.

2. Turn off and unplug the unit.

3. Empty the residual condensate water by unplugging the lower drain cap. (See above figure)

4. Detach the exhaust hose and collapse it to its smallest size.

5. Take out the filter. Clean and dry it completely before fitting back into the unit.

6. Cover the unit to protect it from dust. It is recommended to store the unit in its original box and packaging.

7. The unit should be stored in a cool dry place. Do not stack heavy objects on the top of the unit.

Troubleshooting

Problem	Possible Causes	Solutions
The portable air conditioner does not turn on	There was a power failure	Restore the power supply
	The automatic switch, line fuse, or breaker has been tripped	Flip the switch, change the fuse, or turn the breaker back on. Also note that you may have too many appliances drawing power on one circuit, so you may need to move some onto another circuit
	The power supply voltage is too low	Move the unit onto another circuit with the correct voltage
	The power cord is damaged	Call for service. Only authorized servicers should replace damaged plugs
	The LCDI plug for the unit is tripped	Press the Reset button on the portable air conditioner's plug
The unit turns on, but the compressor does not turn on- the fan runs, but there is no cooling	The room temperature is outside of the operational tolerances of the unit	This unit is designed to work in ambient temperatures of 64°F to 100°F
	The Cooling mode is not on	Press the Mode button until the Cooling icon is shown on the control panel
	The compressor has not turned on yet because of its time delay	Give the compressor 3 minutes to turn on after the Cooling mode has been selected
	The set temperature is too high	Reset the temperature lower
	The internal water reservoir is full	Check the water level indicator on the control panel. If it is lit, either manually drain the water or allow the unit to exhaust the water itself. Then cooling will resume
The air coming out of the unit is not very cold, or the airflow volume is weak	The filter is dirty or obstructed	Clean the filter
	The air intake is obstructed	Make sure there is at least 20" of clearance from the air intake

	The exhaust duct is too long	Make the exhaust duct as short as possible
	The exhaust is obstructed	Check the exhaust duct. Remove any obstructions
	The unit is set in dehumidifying mode	Set the unit in cooling mode
	The unit is set to low fan speed	Set the unit to high fan speed
The unit has worked for a long time, but the room is not cold enough	Windows or doors are open	Close all windows and doors into the room when the unit is cooling
	There are too many people in the room	You may need additional cooling or another air conditioner
	There is direct sunshine into the room	Close curtains and blinds. Try to minimize the amount of direct sunlight into the room
	The room is a kitchen, with many heat-producing appliances	You may need additional cooling or another air conditioner
	There is a server in the room	You may need additional cooling or another air conditioner
	The room is too large	You may need additional cooling or another air conditioner
	There are many electrical appliances in the room	You may need additional cooling or another air conditioner
The unit is very noisy	The unit is not level	Make sure the unit is level
	The floor underneath the unit is uneven	Move the unit to a location with a level, even floor
The unit is leaking water onto the floor	The drain upper and lower rubber stoppers are not installed	Install the rubber drain stoppers to both the upper and lower drain port.
	The unit is tilted, or is not level	Make use the unit is level

<u>ONE YEAR LIMITED WARRANTY &</u>
<u>FIVE YEAR WARRANTY ON COMPRESSOR</u>

This WHYNTER SNO portable air conditioner is warranted, to the original owner within the 48 continental states, for one year from the date of purchase against defects in material and workmanship under normal use and service. Should your SNO portable air conditioner prove defective within one year from the date of purchase, return the defective part or unit, freight prepaid (within two months of purchase; after two months to one year, customer will be responsible for freight cost to Whynter's service department), along with an explanation to Whynter's service department. Please ship the SNO portable air conditioner in its original packaging material to avoid damage in transit. <u>Please retain original box and packaging material.</u> Under this warranty, Whynter will repair or replace any parts found defective. This warranty is not transferable. After the expiration of the warranty, the cost of labor and parts will be the responsibility of the original owner of the unit.

THIS WARRANTY DOES NOT COVER:
- Acts of God, such as fire, flood, hurricanes, earthquakes and tornadoes.
- Damage, accidental or other wise, to the portable air conditioner while in the possession of a consumer not caused by a defect in material or workmanship;
- Damage caused by consumer misuse, tampering, or failure to follow the care and special handling provisions in the instructions.
- Damage to the finish of the housing, case, or other appearance parts caused by wear.
   1) Filter.
   2) Damage caused by repairs or alterations of the unit by anyone other than authorized by the manufacturer.
   3) Freight and Insurance cost for the warranty service.

To obtain service or information, contact

Whynter Innovations Group via Email at <u>service@whynter.com</u>

or call 866-WHYNTER.