PORTABLE A/C

AIR CONDITIONER

DUAL HOSE PORTABLE AIR CONDITIONER

14,000 BTU

OWNER'S MANUAL

Inside you will find helpful hints on how to use and maintain your air conditioner properly. Just a little preventative care on your part can save you a great deal of time and money over the life of your air conditioner. Before operating this product, please read the instructions carefully and save this manual for future use.

#700825

CONGRATULATIONS...

on your purchase of Ideal Air's 14,000 BTU Portable Air Conditioner. We're proud to offer this product and believe it's the very best in its class.

READ THIS MANUAL

Please read through these instructions before you start the installation process. Improper installation can cause damage to the unit, your personal property, and also poses a personal safety hazard.

CONTENTS

CAUTION 3

SAFETY PRECAUTIONS 3

IDENTIFICATION OF PARTS 4

INSTALLATION 5

OPERATION 9

MAINTENANCE 13

PROPER UNIT DISPOSAL 13

TROUBLESHOOTING 14

DESIGN AND COMPLIANCE NOTES 14

GLOSSARY OF TERMS 15

NOTE

All the illustrations in the manual are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail. The unit can be controlled by the unit control panel alone or with the remote controller. This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

⚠ CAUTION

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction regarding the use of the appliance in a safe way and understand the hazards involved.
- 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 they do not play with the appliance.
- 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.
- Prior to cleaning or other maintenance, the appliance must be disconnected from the supply mains.
- Do not install the appliance in a location that may be exposed to combustible gas.
- If combustible gas accumulates around the unit, it may cause fire.
- Do not run the cord under carpeting, throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange the cord away from traffic areas and where it will not be tripped over.
- Do not operate unit with a damaged cord or plug. Discard unit or return to an authorized service facility for examination and/or repair.
- To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.
- The appliance shall be installed in accordance with applicable wiring regulations.
- Contact an authorized service technician for repair or maintenance of this unit.
- Contact an authorized technician for the installation of this unit.
- When there are wide differences between "Owner's Manual" and "Remote controller Illustration" on function description, the description on "Owner's Manual" shall prevail.
- Do not operate your air conditioner in a wet room such as a bathroom or laundry room.

SAFETY PRECAUTIONS

- Installation must be performed according to the installation instructions. Improper installation can cause water leakage, electrical shock, or fire.
- Use only the included accessories and parts, and specified tools for the installation. Using non-standard parts can cause water leakage, electrical shock, fire, and injury or property damage.
- Make sure that the outlet you are using is grounded and has the appropriate voltage. The power cord is equipped with a grounded three-prong plug to protect against electrical shock. Voltage information can be found on the side of the unit, behind the grille.
- Install the unit on a flat, sturdy surface. Failure to do so could result in damage or excessive noise and vibration.
- The unit must be kept free from obstructions to ensure proper function and to mitigate safety hazards.
- DO NOT modify the length of the power cord or use an extension cord to power the unit.
- DO NOT share a single outlet with other electrical appliances. Improper power supply can cause fire or electrical shock.
- DO NOT install your air conditioner in a wet room such as a bathroom or laundry room. Too much exposure to water can cause electrical components to short circuit.
- DO NOT install the unit in a location that may be exposed to combustible gas, as this could cause fire.
- The unit has wheels to facilitate moving. Make sure not to use the wheels on thick carpet or to roll over objects, as these could cause tipping.
- DO NOT operate a unit that has been dropped or damaged.
- Only use the included accessories and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, and injury or property damage.
- The unit must be kept free from obstruction to ensure proper function.
- DO NOT allow children to play with the air conditioner. Children must be supervised around the unit at all times.
- If the air conditioner is knocked over during use, turn off the unit and unplug it from the main power supply immediately.
- Visually inspect the unit to ensure there is no damage. If you suspect the unit has been damaged, contact a technician or customer service for assistance.
- In a thunderstorm, the power must be cut off to avoid damage to the machine due to lightning.

IDENTIFICATION OF PARTS

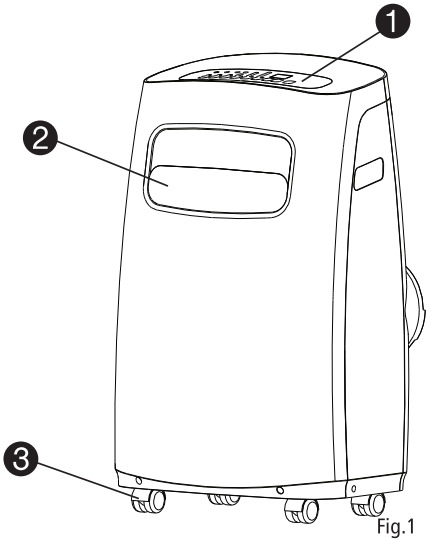


Fig.1

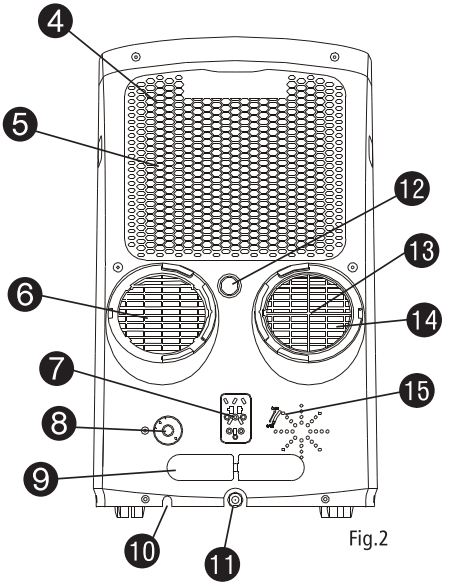


Fig.2

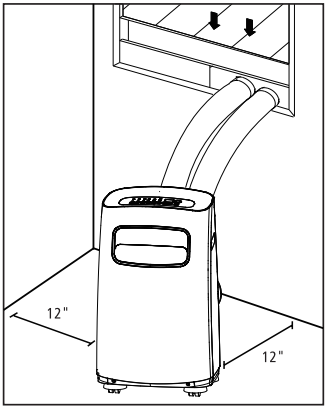
FRONT **BACK**

1. Operation panel
2. Horizontal louver blade (swing automatically)
3. Caster
4. Upper air filter (Behind the grille)
5. Upper air intake
6. Air outlet
7. Power plug socket
8. Drain outlet (Only for pump heating mode)
9. Power cord buckle
10. Power cord outlet
11. Bottom tray drain outlet
12. Drain outlet
13. Lower air filter
14. Lower air intake
15. Vent control

NOTE: ABOUT FLUORINATED GASSES

- This air-conditioning unit is a hermetically sealed unit that contains fluorinated gasses. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself.
- Installation, service, maintenance and repair of this unit must be performed by a certified technician.
- Product uninstallation and recycling must be performed by a certified technician.
- If the system has a leak-detection system installed, it must be checked for leaks at least every 12 months.
- When the unit is checked for leaks, proper record-keeping of all checks is strongly recommended.

INSTALLATION



TOOLS NEEDED

- Medium Phillips screwdriver
- Tape measure or ruler
- Knife or scissors
- Saw (optional, to shorten window adapter for narrow windows)

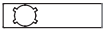
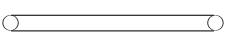
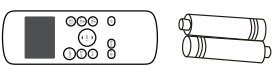
CHOOSING THE RIGHT LOCATION

Your installation location should meet the following requirements:

- Make sure that you install your unit on an even surface to minimize noise and vibration.
- The unit must be installed near a grounded plug, and the collection tray drain (found on the back of the unit) must be accessible.
- The unit should be located at least 12" from the nearest wall to ensure proper air conditioning.
- DO NOT cover the intakes, outlets or remote signal receptor of the unit, as this could cause damage to the unit.

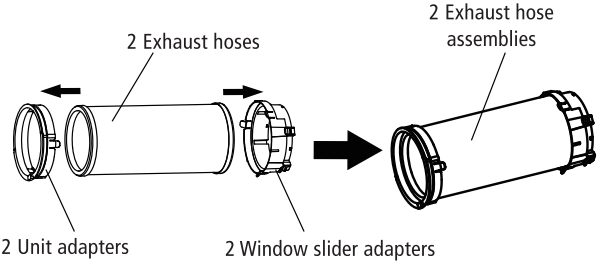
ACCESSORIES

Your window installation kit fits windows 26.5 - 48" and can be shortened for smaller windows.

PART	DESCRIPTION	QUANTITY
	Unit adapter	2 pc
	Exhaust hose	2 pc
	Window slider adapter	2 pc
	Bolt	1 pc
	Window slider A	1 pc
	Window slider B	1 pc
	Foam seal A (adhesive)	2 pc
	Foam seal B (adhesive)	2 pc
	Foam seal C (non-adhesive)	1 pc
	Security bracket and 2 screws	1 set
	Drain hose	1 pc
	Drain hose adapter (Only for heat pump mode)	1 pc
	Power cord buckle	1 pc
	Remote controller and battery (For remote control models only)	1 set

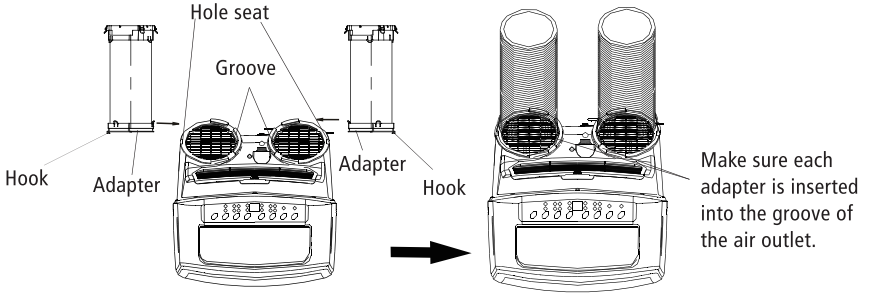
WINDOW INSTALLATION KIT:
STEP ONE - PREPARING TWO EXHAUST HOSE ASSEMBLIES

Press the exhaust hose into the window slider adapter and unit adapter, clamp automatically by elastic buckles of the adapters.



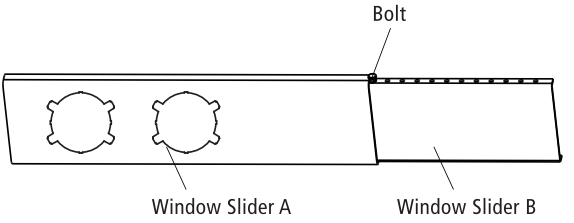
STEP TWO - INSTALL THE TWO EXHAUST HOSE ASSEMBLIES TO THE UNIT

Press the exhaust hose into the window slider adapter and unit adapter, clamp automatically by elastic buckles of the adapters.



STEP THREE - PREPARING THE ADJUSTABLE WINDOW SLIDER

1. Depending on the size of your window, adjust the size of the window slider.
2. If the length of the window requires two window sliders, use the bolt to fasten the window sliders once they are adjusted to the proper length.



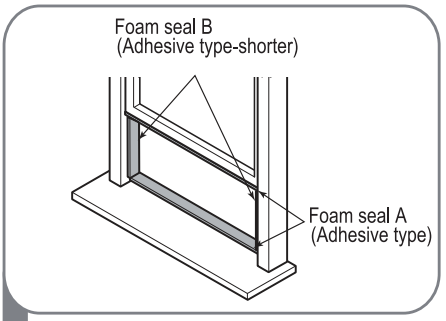
TYPES OF INSTALLATION

1. Depending on the size of your window, adjust the size of the window slider.
2. If the length of the window requires two window sliders, use the bolt to fasten the window sliders once they are adjusted to the proper length.

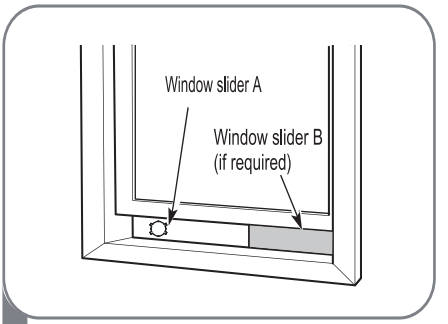
NOTE

Once the Exhaust Hose assembly and Adjustable Window Slider are prepared, choose from one of the following two installation methods.

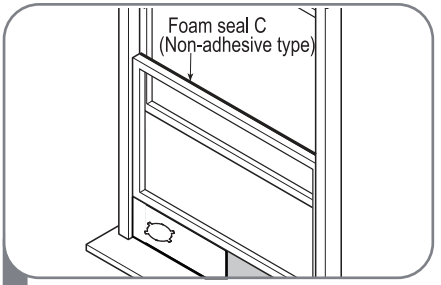
TYPE 1: HUNG WINDOW INSTALLATION



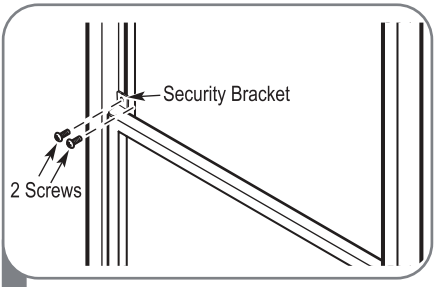
1 Cut the adhesive foam seal A and B strips to the proper lengths, and attach them to the window sash and frame as shown.



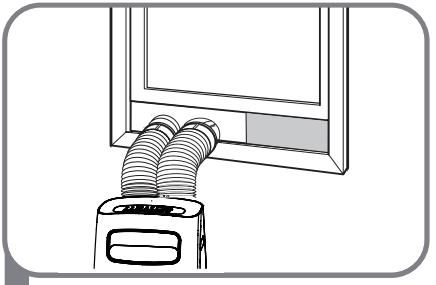
2 Insert the window slider assembly into the window opening.



3 Cut the non-adhesive foam seal C strip to match the width of the window. Insert the seal between the glass and the window frame to prevent air and insects from getting into the room.

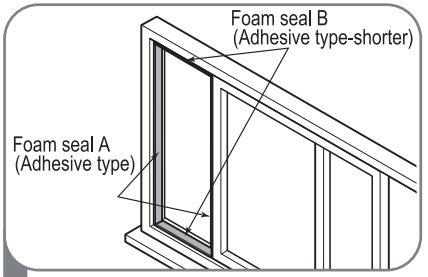


4 If desired, install the security bracket with 2 screws as shown.

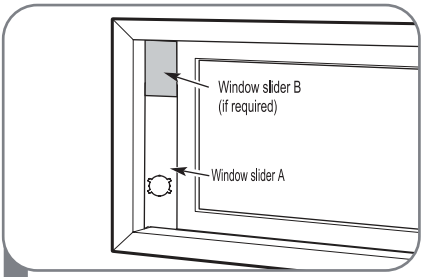


5 Insert the window slider adapters into the holes of the window slider.

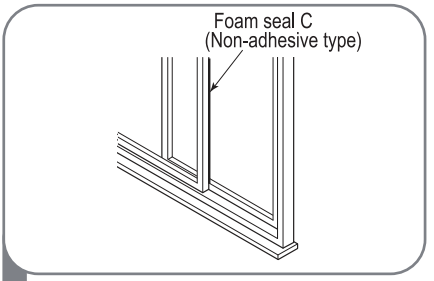
TYPE 2: SLIDING WINDOW INSTALLATION



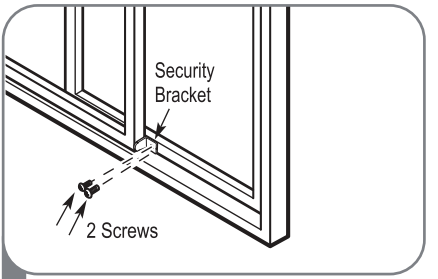
1 Cut the adhesive foam seal A and B strips to the proper lengths, and attach them to the window sash and frame as shown.



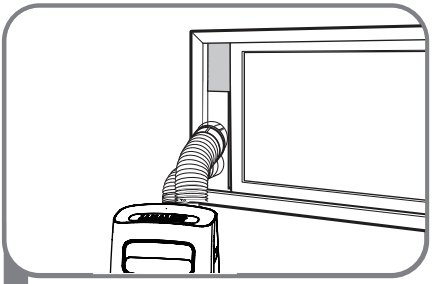
2 Insert the window slider assembly into the window opening.



3 Cut the non-adhesive foam seal C strip to match the window height. Insert the foam seal between the glass and the window frame to prevent air and insects from getting into the room.



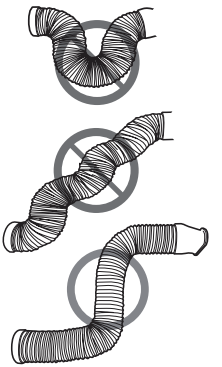
4 If desired, install the security bracket with 2 screws as shown.



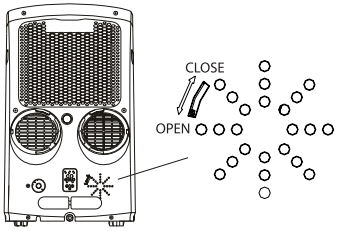
5 Insert the window slider adapters into the holes of the window slider.

NOTE

To ensure proper function, DO NOT overextend or bend the hose. Make sure that there is no obstacle around the air outlet of the exhaust hose (in the range of 20") in order to the exhaust system works properly.



VENT CONTROL FEATURE



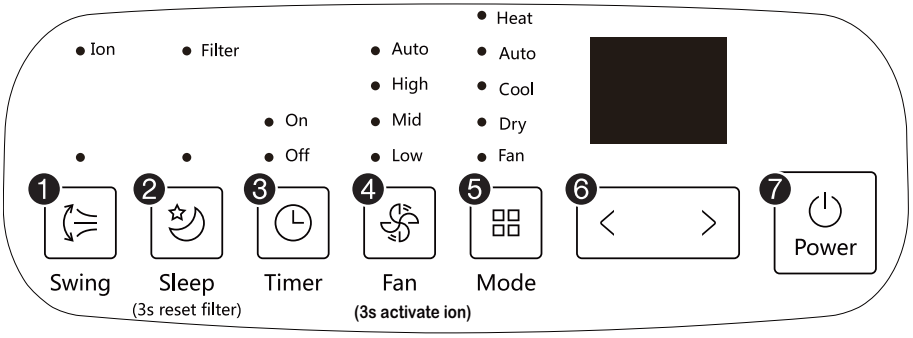
The vent control is located at the back of the air conditioner.

The open position removes stale air from the room and exhausts it to the outside.

Fresh air is drawn in through normal passages in the home.

When not needed to circulate the room air, set vent control to the close position.

OPERATION



❶

SWING button (optional)
(Applicable to the models with auto swing feature only) Used to initiate the auto swing feature. When the operation is on, press the SWING button can stop the louver at the desired angle.

❹

FAN/ION button (Ion is optional)
Control the fan speed. Press to select the fan speed in four steps-low, mid, high and auto. The fan speed indicator light illuminates under different fan settings.

❼

POWER button
Power switch on/off.

❷

SLEEP button
Used to initiate the SLEEP operation.

❺

MODE button
Selects the appropriate operating mode. Each time you press the button, a mode is selected in a sequence that goes from auto, cool, dry and fan. The mode indicator light illuminates under the different mode settings.

❸

TIMER button
Used to initiate the auto on start time and auto off stop time program, in conjunction with the + and - buttons. The timer on/off indicator light illuminates under the timer on/off settings.

❻

UP (+) and DOWN (-) buttons
Used to adjust (increasing/ decreasing) temperature settings in 1°C / **1°F** increments in a range of 17°C / **62°F** to 30°C / **86°F** or the timer setting in a range of 0-24hrs.

NOTE

After 250 hours of operation, the filter indicator light illuminates. This feature is a reminder to clean the air filter for more efficient operation. Press the SLEEP button for 3 seconds to cancel the reminder.

Press the FAN button for 3 seconds to initiate ion feature. The ion generator is energized and will help to remove pollen and impurities from the air, and trap them in the filter. Press again for 3 seconds again to stop the ion feature.

The control is capable of displaying temperature in fahrenheit or celsius. To convert from one to the other, press and hold the UP and DOWN buttons at the same time for 3 seconds.

LED DISPLAY

Shows the set temperature in °C or °F and the auto-timer settings. While on dry and fan modes, it shows the room temperature. Shows error codes and protection code:

E1 - Room temperature sensor error.
E2 - Evaporator temperature sensor error.
E3 - Condenser temperature sensor error (on some models).
E4 - Display panel communication error.
E7 - Zero-crossing malfunction.
P1 - Bottom tray is full - Connect the drain hose and drain the collected water away. If protection repeats, call for service.

NOTE

When one of the above malfunctions occurs, turn off the unit, and check for any obstructions. Restart the unit, if the malfunction is still present, turn off the unit and unplug the power cord. Contact the manufacturer or its service agents or a similar qualified person for service.

OPERATION INSTRUCTIONS

COOL OPERATION

- Press the MODE button until the cool indicator light comes on.
- Press the ADJUST buttons + or - to select your desired room temperature. The temperature can be set within a range of 17°C-30°C / **62°F-86°F**.
- Press the FAN button to choose the fan speed.

DRY OPERATION

- Press the MODE button until the dry indicator light comes on.
- Under this mode, you cannot select a fan speed or adjust the temperature. The fan motor operates at low speed.
- Keep windows and doors closed for the best dehumidifying effect.
- Do not put the duct to window.

AUTO OPERATION

- When you set the air conditioner in auto mode, it will automatically select cooling, heating (cooling only models without), or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner will control room temperature automatically round the temperature point set by you.
- Under auto mode, you cannot select the fan speed.

FAN OPERATION

- Press the MODE button until the fan indicator light comes on.
- Press the FAN button to choose the fan speed. The temperature cannot be adjusted.
- Do not put the duct to window.

TIMER OPERATION

- When the unit is on, press the TIMER button will initiate the auto-off stop program, the timer off indicator light illuminates. Press the UP or DOWN button to select the desired time. Press the TIMER button again within 5 seconds, the auto-on start program is initiated. And the timer on indicator light illuminates. Press the UP or DOWN button to select the desired auto-on start time.
- When the unit is off, press the TIMER button to initiate the auto-on start program, press it again within five seconds will initiate the auto-off stop program.
- Press or hold the UP or DOWN button to change the auto time by 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The control will count down the time remaining until start.
- The system will automatically revert back to display the previous temperature setting if there is no operation in a 5 seconds period.
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the auto start/stop timer program.
- When the malfunction occurs, the auto start/stop timed program will also be canceled.

SLEEP operation

- Press this button and the selected temperature will increase cooling by 1°C / **1°F** for 30 minutes. The temperature will then increase cooling or decrease heating by another 1°C / **1°F** after an additional 30 minutes. This new temperature will be maintained for 7 hours before it returns to the originally selected temperature. This ends the sleep mode and the unit will continue to operate as originally programmed.

NOTE
This feature is unavailable under fan or dry mode.

OTHER FEATURES

FOLLOW ME/TEMP SENSING FEATURE (OPTIONAL)

NOTE
This feature can be activated from the remote control ONLY. The remote control serves as a remote thermostat allowing for the precise temperature control at its location. To activate the follow me/temp sensing feature, point the remote control towards the unit and press the FOLLOW ME/TEMP SENSING button. The remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the FOLLOW ME/TEMP SENSING button again. If the unit does not receive the follow metemp sensing signal during any 7 minutes interval, the unit will beep to indicate the follow me/temp sensing mode has ended.

AUTO-RESTART

If the unit breaks off unexpectedly due to the power cut, it will restart with the previous function setting automatically when the power resumes.

WAIT 3 MINUTES BEFORE RESUMING OPERATION

After the unit has stopped, it can not be restarted operation in the first 3 minutes. This is to protect the unit. Operation will automatically start after 3 minutes.

AIR FLOW DIRECTION ADJUSTMENT

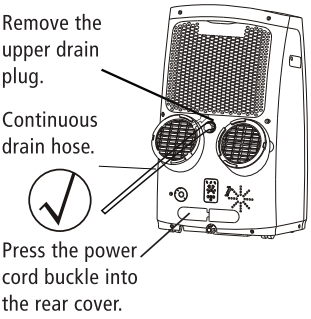
The louver can be adjusted automatically. Adjust the air flow direction automatically.

NOTE
On some models the louver can be adjusted manually only.

- When the power is on, the louver opens fully.
- Press the SWING button on the panel or remote controller to initiate the auto swing feature. The louver will swing up and down automatically.
- Please do not adjust the louver manually.

WATER DRAINAGE

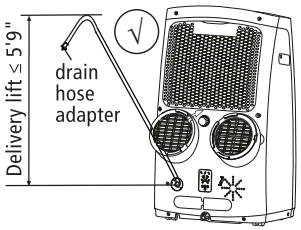
- During dehumidifying modes, remove the upper drain plug from the back of the unit, install the drain connector (5/8" universal female mender) with 3/4" hose (locally purchased). For the models without drain connector, just attach the drain hose to the hole. Place the open end of the hose directly over the drain area in your basement floor.

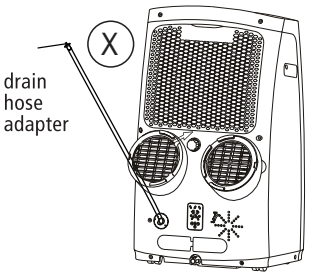


- For the models without drain connector, just attach the drain hose to the hole. Place the open end of the hose adapter directly over the drain area in your basement floor.

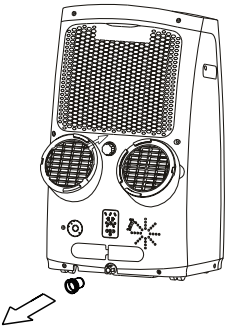
NOTE

Make sure the hose is secure so there are no leaks. Direct the hose toward the drain, making sure that there are no kinks that will stop the water flowing. Place the end of the hose into the drain and make sure the end of the hose is down to let the water flow smoothly. (See Figs with "✓" and "X"). When the continuous drain hose is not used, ensure that the corresponding drain plug and knob are installed firmly to prevent leakage.





When the water level of the bottom tray reaches a predetermined level, the unit beeps 8 times, the digital display area shows "P1." At this time the air conditioning/dehumidification process will immediately stop. However, the fan motor will continue to operate (this is normal). Carefully move the unit to a drain location, remove the bottom drain plug and let the water drain away. Reinstall the bottom drain plug and restart the machine until the "P1" symbol disappears. If the error repeats, call for service.



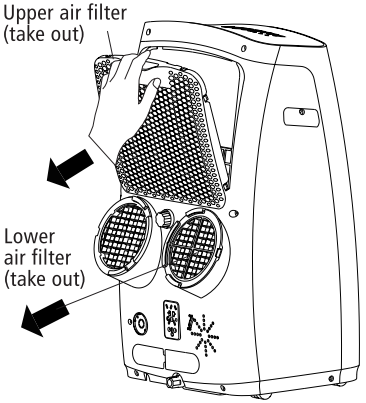
NOTE

Be sure to reinstall the bottom drain plug firmly to prevent leakage before using the unit.

MAINTENANCE

SAFETY PRECAUTIONS

- Always unplug the unit before cleaning or servicing.
- DO NOT use flammable liquids or chemicals to clean the unit.
- DO NOT wash the unit under running water. Doing so causes electrical danger.
- DO NOT operate the machine if the power supply was damaged during cleaning. A damaged power cord must be replaced with a new cord from the manufacturer.



Remove the air filter

CLEAN THE AIR FILTER

- Be sure to clean the air filter every 2 weeks for optimal performance.
- The water collection tray should be drained immediately after P1 error occurs, and before storage to prevent mold.
- In households with animals, you will have to periodically wipe down the grille to prevent blocked airflow due to animal hair. If the error repeats, call for service.

CLEAN THE UNIT

- Clean the unit using a damp, lint-free cloth and mild detergent.
- Dry the unit with a dry, lint-free cloth.

STORE THE UNIT WHEN NOT IN USE

- Drain the unit's water collection tray according to the instructions in the previous section.
- Run the appliance on fan mode for 12 hours in a warm room to dry it and prevent mold.
- Turn off the appliance and unplug it.
- Clean the air filter according to the instructions in the previous section. Reinstall the clean, dry filter before storing.
- Remove the batteries from the remote control.
- Be sure to store the unit in a cool, dark place. Exposure to direct sunshine or extreme heat can shorten the lifespan of the unit.

PROPER UNIT DISPOSAL

When using this air conditioner in the European countries, the following information must be followed:

DISPOSAL

Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. It is prohibited to dispose of this appliance in domestic household waste. For disposal, there are several possibilities:

A) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
B) When buying a new product, the retailer will take back the old product at least free of charge.
C) The manufacturer will take back the old appliance for disposal at least free of charge to the user.
D) As old products contain valuable resources, they can be sold to scrap metal dealers. Disposal of waste in forests and landscapes endangers your health when hazardous substances leak into groundwater and find their way into the food chain.

TROUBLESHOOTING

PLEASE CHECK THE MACHINE ACCORDING TO THE FOLLOWING FORM BEFORE ASKING FOR MAINTENANCE

PROBLEM	POSSIBLE CAUSES	SUGGEST REMEDIES
1. Unit does not start when pressing on/ off button.	P1 error code.	The water collection tray is full. Turn off the unit, drain the water from the water collection tray and restart the unit.
	In cool mode: room temperature is lower than the set temperature	Reset the temperature.
2. Unit does not cool well.	The air filter is blocked with dust or animal hair.	Turn off the unit and clean the filter according to instructions.
	Exhaust hose is not connected or is blocked.	Turn off the unit, disconnect the hose, check for blockage and reconnect the hose.
	The unit is low on refrigerant.	Call a service technician to inspect the unit and top off refrigerant.
	Temperature setting is too high.	Decrease the set temperature.
	The windows and doors in the room are open.	Make sure all the windows and doors are closed.
	The room area is too large.	Double-check the cooling area.
	There are heat sources inside the room.	Remove the heat source if possible.
3. The unit is noisy and vibrates too much.	The ground is not level or not flat enough.	Place the unit on a flat, level surface.
	The air filter is blocked with dust or animal hair.	Turn off the unit and clean the filter according to instructions.
4. Gurgling sound	The sound comes from the flowing of the refrigerant inside the unit.	This is normal.

DESIGN AND COMPLIANCE NOTES

DESIGN NOTICE

In order to ensure the optimal performance of our products, the design specifications of the unit and remote control are subject to change without prior notice.

ENERGY RATING INFORMATION

In order to ensure the optimal performance of our products, the design specifications of the unit and remote control are subject to change without prior notice.

UNIT TEMPERATURE RANGE

MODE	TEMPERATURE RANGE
Cool	17-35°C (**62-95°F**)
Dry	13-35°C (**55-95°F**)

GLOSSARY OF TERMS

A/C – Air conditioning also referred to as A/C. A system or device for reducing the temperature and humidity, in a space.

AHAM – Acronym for Association of Home Appliance Manufacturers. AHAM produces the official rating for dehumidifiers.

BTU – British Thermal Unit. A single BTU is the amount of energy required to cool or heat a pound of water one degree Fahrenheit.

Condenser – The unit used to condense a substance from a gaseous state to liquid by cooling it. Condensers are generally recognized as heat exchangers. In the case of air conditioners they extract the inside heat from the interior of the air conditioner to the outside air. Often referred to as "the outdoor unit."

Dehumidifier – Also called Duhums. Dehumidifiers remove humidity and are used to keep a rooms humidity levels in check. Maintaining correct humidity will ensure a healthy crop. Too much humidity will cause molds, rot and devastate your crop.

Digital Inverter Compressor – A digitally controlled compressor that converts AC voltage to DC voltage to control compressor speed. The inverter allows precise throttle control of the conditioning unit based on the load or need. Inverter units are quieter, more efficient and last longer.

Ductless Mini-Split – An air conditioner or heat pump that requires no duct work to function. The unit hangs on the wall or ceiling and cools or heats the surrounding area.

Evaporator – The indoor portion of the heat pump or air conditioner. In a mini-split system this hangs on the wall or ceiling and provides the heating or cooling of the space.

H/P – Heat Pump. A unit that can operate as both an air conditioner or a heater. When it's cold outside a heat pump extracts the outside heat and transfers it inside. When it's warm outside, it reverses directions and acts like an air conditioner, removing heat. A heat pump moves heat instead of generating it, giving you more energy efficiency.

HSPF – Heating Seasonal Performance Factor. The greater the number/rating the more efficient the heating. A 10 HSPF, for example is a very good rating.

Humidifier – Humidifiers use water to put humidity in the growing space. Many plants we grow indoors are accustomed to growing outdoors in tropical areas where humidity is high. Also certain parts of the country are drier than others so you will need to add humidity.

Line Set – Insulated copper tubing used to connect the evaporator and condenser. The refrigerant travels back and forth through the line set between the evaporator and condenser to create either cooling or heating.

R-410 – A type of refrigerant. Unlike alkyl halide refrigerants, R-410A (which contains only fluorine) does not contribute to ozone depletion. Because of that attribute it's preferred and used more broadly instead of R-22 which are phased out. R-410 refrigerants allow for higher SEER ratings therein reducing power consumption and improving unit efficiency.

SEER – Seasonal Energy Efficiency Ratio. The greater the SEER rating, the more efficient the cooling system. The minimum SEER rating allowed by the Federal Government is 14.

Ton – The size of air conditioning unit (heating or cooling) is common referred to in "tons". A one ton unit, for example, is 12,000 BTU's. A two ton, 24,000 BTU's, etc. This was arrived at using a standard of how long it would take to melt ice. A one ton unit takes 12,000BTU's of heat one hour to melt a ton of ice.

VFD – Variable Frequency Drive. The VFD is a an electrical device that's used to control the speed and torque of an air conditioning motor, like those used in an inverter compressor.

NOTES

IMPORTANT

Product not working properly?

DO NOT return this product to the store where you purchased it.

Contact Ideal-Air™ support directly at support@ideal-air.com or call

1-877-943-3251

For answers to most common questions and a complete technical support library please visit **www.ideal-air.com**

IDEALair™

GROWING CLIMATE SOLUTIONS™

ideal-air.com

All design and specifications herein are subject to change without notice for product improvement. Contact Ideal-Air™ for details, updates and other information.