

HEAT CONTROLLER, INC.

OWNER'S MANUAL



Room Air Conditioner with R-410A:

BG-81G
BG-101G
BG-103G
BG-123G
BG-143G
BGE-103G
BGE-123G

CONTENTS

1. SAFETY PRECAUTIONS.....2

2. IMPORTANT SAFETY INSTRUCTIONS4

3. NORMAL SOUNDS5

4. AIR CONDITIONER FEATURES5

5. INSTALLATION INSTRUCTIONS.....10

6. CARE AND CLEANING22

7. TROUBLESHOOTING TIPS.....23

Read This Manual



Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.

 **CAUTION**



- Contact an authorized service technician for repair or maintenance of this unit.
- Contact an authorized installer for installation of this unit.
- If the power cord needs to be replaced, replacement work shall be performed by authorized service personnel only.
- Installation work must be performed in accordance with the national and local electric codes and must be performed by authorized personnel only.

Safety Precautions

To prevent injury to the user and proper damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage. The seriousness is classified by the following indications.

 WARNING	This symbol indicates the possibility of death or serious injury.
 CAUTION	This symbol indicates the possibility of injury or damage to property.


■ Meanings of symbols used in this manual are as shown below.

	Never do this.
	Always do this.


WARNING

 Plug in power cord plug properly


- Otherwise, it may cause electric shock or fire due to excess heat generation

 Do not open the unit during operation


- It may cause electric shock

 Always ensure effective grounding


- Incorrect grounding may cause electric shock

 Do not modify power cord length or share the outlet with other appliances.


- It may cause electric shock or fire due to heat generation

 Do not operate or stop the unit by inserting or pulling out the power plug


- It may cause electric shock or fire due to heat generation

 Unplug the unit if strange sounds, odors or smoke comes from it.


- It may cause fire and electric shock

 Do not operate with wet hands or in a damp environment


- It may cause electric shock

 Do not use the power cord close to heating appliances


- It may cause fire and electric shock

 Do not allow water to run in to electric parts


- It may cause failure of machine or electric shock

 Unplug the unit if strange sounds, odors or smoke comes from it.

- It may cause fire and electric shock

 Always install circuit breaker and a dedicated power circuit


- Incorrect installation may cause fire and electric shock

 Do not use the socket if it is loose or damaged

- It may cause fire and electric shock

 Do not use a damaged or unspecified power cord

- It may cause electric shock or fire
- If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center or a qualified person in order to avoid a hazard


 Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.

- It may cause an explosion or fire


 Do not disassemble or modify unit.

- It may cause failure and electric shock


 **CAUTION**

 When the air filter is to be removed, do not touch the metal parts of the unit


- It may cause an injury due to sharp edges of components.

 Do not allow water to enter inside the unit during cleaning


- Water may enter the unit and degrade the insulation. It may cause an electric shock

 Ventilate the room well when used together with a gas stove or if there is a gas leak


- An oxygen shortage may occur
- May cause explosion, fire and/or burns

 When the unit is to be cleaned, switch off, and turn off the circuit breaker

- Do not clean unit when power is on as it may cause fire and electric shock

 Hold the plug by the head of the power plug when taking it out


- It may cause electric shock and damage

 Turn off the main power switch when not using the unit for a long time


- It may cause failure of product or fire

 Stop operation and close the window in storm or hurricane

- Operation with windows opened may allow rain to enter inside and damage property

 Ensure that the installation bracket of the outdoor appliance is not damaged


- If bracket is damaged, there is concern of damage due to falling of unit.

 Always insert the filters securely. Clean filter once every two weeks


- Operation without filters may cause failure
- Operation with dirty/clogged filters may cause failure

 Do not place obstacles around air-inlets or inside of air-outlet


- It may cause failure of appliance or accident

 Do not place heavy object on the power cord and ensure that the cord is not compressed

- There is danger of fire or electric shock

 Do not drink water drained from air conditioner


- It contains contaminants and could make you sick

 Do not use strong detergents such as wax or thinner; use a damp, soft cloth

- Appearance may be deteriorated due to change of product color or scratching of its surface

 Use caution when unpacking and installing

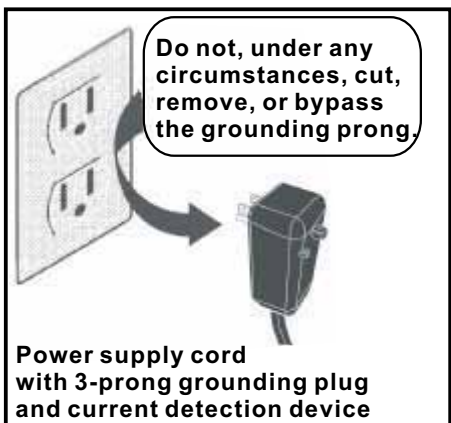
- Sharp edges could cause injury

 If water enters the unit, turn the unit off at the power outlet and switch off the circuit breaker. Isolate supply by taking power-plug out and contact a qualified service technician

- Water may enter the unit and degrade the insulation. It may cause an electric shock

IMPORTANT SAFETY INSTRUCTIONS

NOTE For some models, the power supply cord with this air conditioner contains a current detection device designed to reduce the risk of fire. Please refer to the section "Operation of Current Device" for details. In the event that the power supply cord is damaged, it cannot be repaired—it must be replaced with a cord from the Product Manufacturer.



⚠ WARNING For your safety

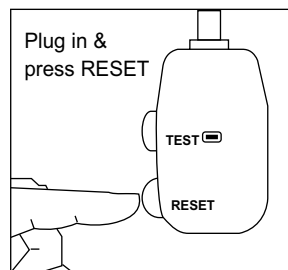
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.

⚠ WARNING Electrical Information

- Be sure the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
- Be sure the air conditioner is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Ensure the receptacle is accessible after the unit installation.
- Do not run air conditioner without side protective cover in place. This could result in mechanical damage within the air conditioner.
- **Do not use an extension cord or an adapter plug.**

Operation of Current Device

The power supply cord contains a current device that senses damage to the power cord. To test your power supply cord do the following:

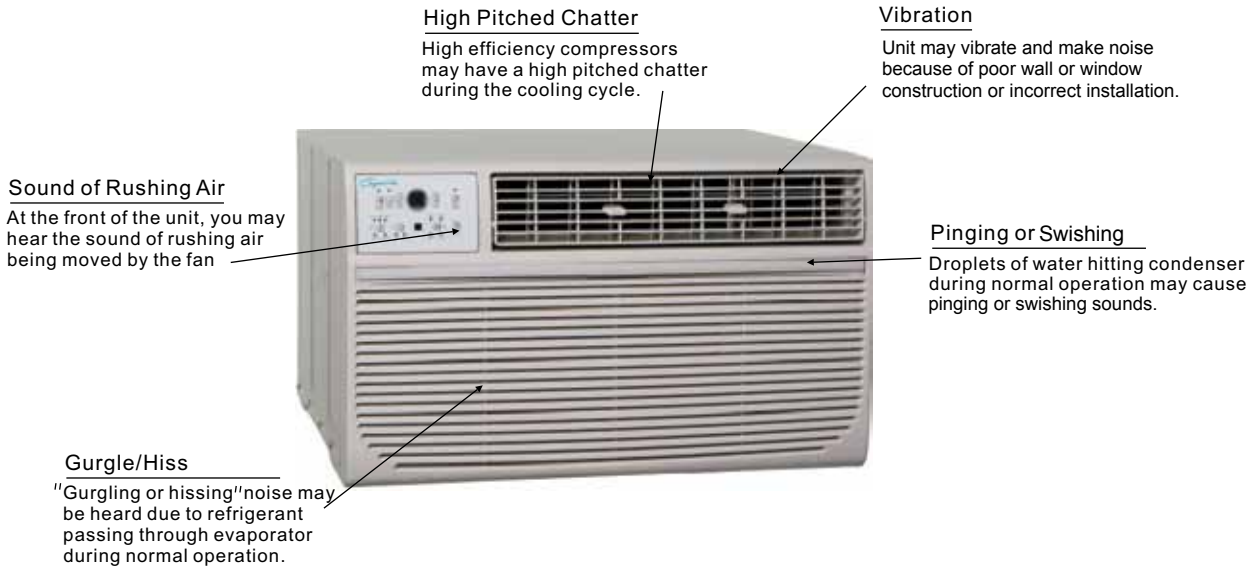


NOTE: Some plugs have buttons on the top.

1. Plug in the Air Conditioner.
2. The power supply cord will have TWO buttons on the plug head. Press the TEST button, you will notice a click as the RESET button pops out.
3. Press the RESET button, again you will notice a click as the button engages.
4. The power supply cord is now supplying electricity to the unit. (On some products this it also indicated by a light on the plug head.)

NOTES:

- Do not use this device to turn the unit on or off.
- Always make sure the RESET button is pushed in for correct operation.
- The power supply must be replaced if it fails reset when either the TEST button is pushed, or it cannot be reset. A new one can be obtained from the product manufacturer.
- If power supply cord is damaged, it cannot be repaired. It **MUST** be replaced by one obtained from the product manufacturer.

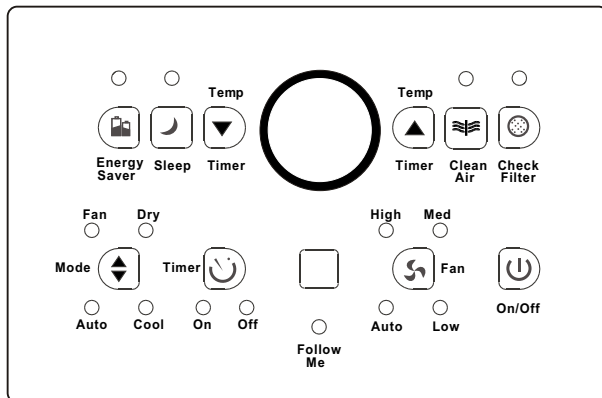


AIR CONDITIONER FEATURES

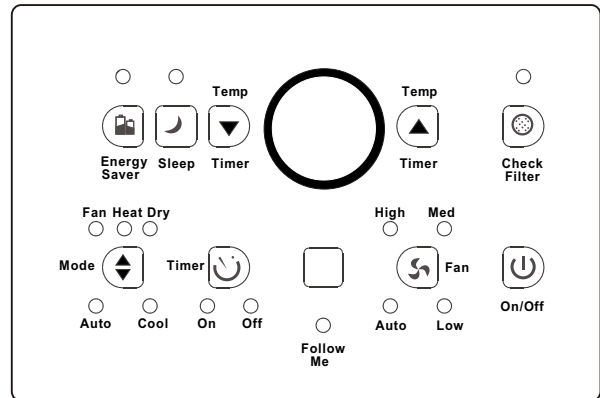
ELECTRONIC CONTROL OPERATING INSTRUCTIONS

Before you begin, thoroughly familiarize yourself with the control panel and remote as shown below and all its functions. **The unit can be controlled by the unit control alone or with the remote.**

UNIT CONTROL



BG Series
(cooling only models)

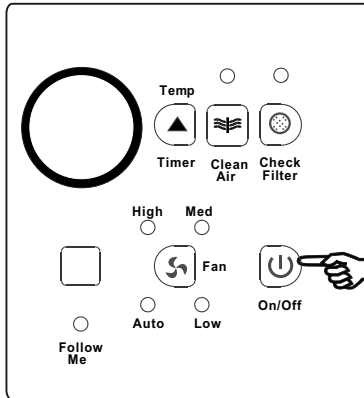


BGE Series
(electric heating models)

AIR CONDITIONER FEATURES(CONTINUED)

NOTE: The following instructions represent the Unit Controls, the same instructions can be used for the Remote Control.

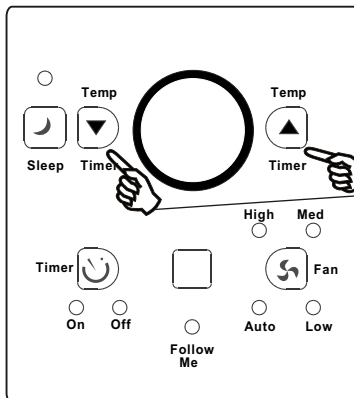
TO TURN UNIT ON:



DO THIS:

Press the On/Off button.

TO CHANGE TEMPERATURE SETTING:



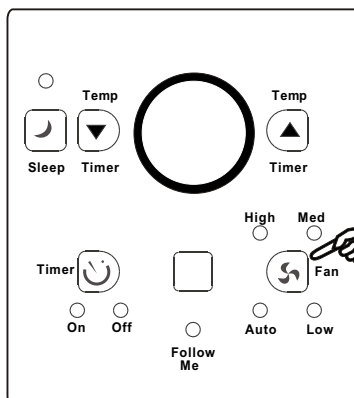
DO THIS:

Press to raise
Press to lower

NOTE:

Press or hold either Up(▲) or Down(▼) button until the desired temperature is seen on the display. This temperature will be automatically maintained anywhere between 62°F(17°C) and 86°F(30°C). Except under Heating mode, the temperature is adjustable between 60°F(16°C) and 90°F(32°C). If you want the display to read the actual room temperature, see "To Operate on Fan Only" section.

TO ADJUST FAN SPEEDS:



DO THIS:

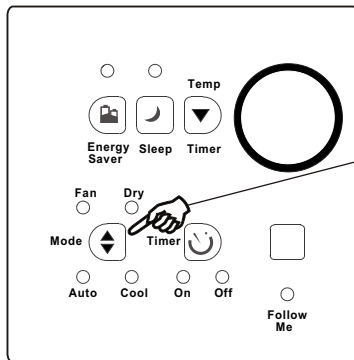
Press to select
appropriate fan
speed

NOTE:

Used to select the Fan Speed in four steps-Auto, Low, Med or High. Each time the button is pressed, the fan speed mode is shifted. If Auto mode is selected, the fan mode is automatically controlled. (See "To Select the Operating Mode" section for more information on this feature.)

AIR CONDITIONER FEATURES(CONTINUED)

TO SELECT THE OPERATING MODE:



DO THIS:
Press the Mode button.

NOTE:

- To choose operating mode, press the Mode button. Each time you press the button, a mode is selected in a sequence that goes from Auto, Cool, Dry, Heat (Heat mode only applies to models with Electric Heat) and Fan. The indicator light beside each mode will be illuminated and remain on while the mode is selected.

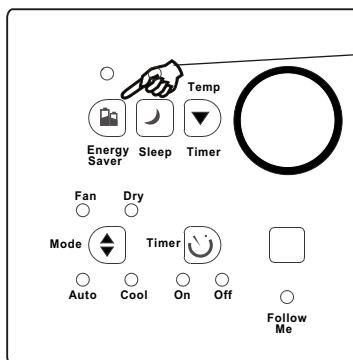
To operate on Auto feature:

- In this mode, the fan speed cannot be adjusted, it starts automatically at a speed according to the room temperature. If the room does not get too warm, it will stay at Low speed.

To operate on Fan Only:

- Use this function only when cooling is not desired, such as for room air circulation or to exhaust stale air(on some models). (Remember to open the vent during this function, but keep it closed during cooling for maximum cooling efficiency.) You can choose any fan speed you prefer.
- During this function, the display will show the actual room temperature, not the set temperature as in the cooling mode.

TO USE THE ENERGY SAVER FEATURE:

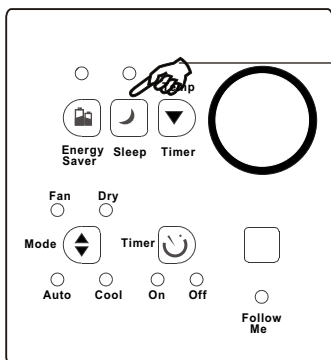


DO THIS:
Press the button

NOTE:

In this mode, the fan will continue to run for 3 minutes after the compressor shuts off. The fan then cycles on for 2 minutes at 10 minute intervals until the room temperature is above the set temperature, at which time the compressor turns back on and cooling starts.

SLEEP FEATURE:



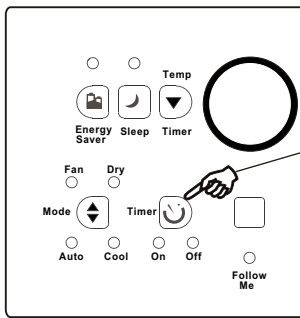
DO THIS:
Press Sleep button

NOTE:

In this mode the selected temperature will increase by 2° F every 30 minutes after the mode is selected. The temperature will then increase by another 2 degrees 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. The Sleep mode program can be cancelled at any time during operation by again pressing the Sleep button.

AIR CONDITIONER FEATURES(CONTINUED)

TIMER: AUTO START/ STOP FEATURE:

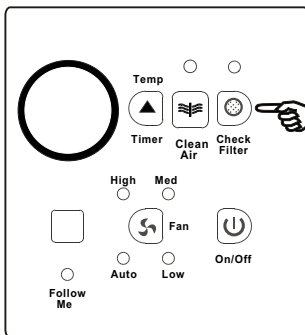


DO THIS:
Press Timer
button

NOTE:

- First press the Timer button, the indicator light besides word On illuminates and indicates the Auto Start program is initiated.
- Press or hold the Up(▲) or Down(▼) 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 selected time will register in 5 second and the system will automatically revert back to display the previous temperature setting.
- Turning the unit ON or OFF at any time will cancel the Auto Start/Stop function.

CHECK FILTER FEATURE:



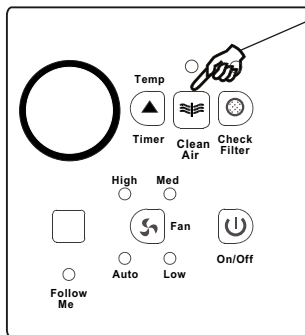
DO THIS:
Press Check
Filter button

NOTE:

This feature is a reminder to clean the Air Filter for more efficient operation. The LED(light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Check Filter button and the light will go off.

CLEAN AIR FEATURE:

(on some models)



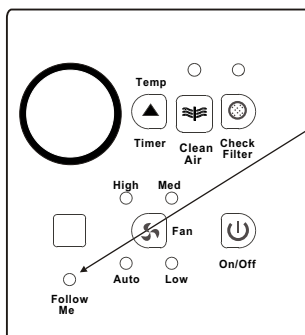
DO THIS:
Press Clean
Air button

NOTE:

Press the Clean Air button, the ion generator is energized and will help to remove pollen and impurities from the air, and trap them in the filter.

FOLLOW ME FEATURE:

(on some models)



Light flashing

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 rather than from the unit's temperature sensor.

To activate the Follow Me feature, point the remote control towards the unit and press the Follow Me button. The remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes until the Follow Me button is pressed again. If the unit does not receive the Follow Me signal during any 7 minute interval, the unit will beep to indicate the Follow Me mode has ended.

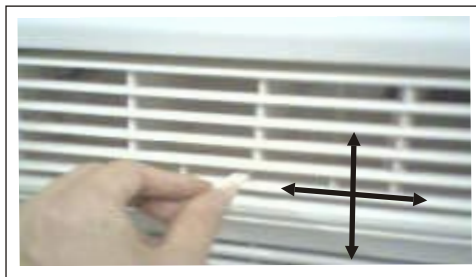
The actual temperature can be displayed at the unit by pressing the Fan Only mode. When in the Cool mode, the unit display indicates the set temperature.

ADDITIONAL THINGS YOU SHOULD KNOW

Now that you have mastered the operating procedure, here are more features in your control that you should become familiar with.

- The cooling circuit has an automatic 3 minute time delay start if the unit is turned off and on quickly. This prevents overheating of the compressor and possible circuit breaker tripping. The fan will continue to run during this time.
- The control will maintain any set temperature within 2°F, between 60°F and 90°F degrees.
- The control is capable of displaying temperature in degrees Fahrenheit or degrees Celsius. To convert from one to the other, press and hold the Up and Down Temp/Timer buttons at the same time, for 3 seconds.

Air Directional Louvers



Air Direction(4- way)

The 4-way air directional louvers allow you to direct the air flow Up or Down and Left or Right throughout the room as needed. To adjust the air directional louvers side-to-side, use the center handles as you move it side-to-side.

INSTALLATION INSTRUCTIONS

Existing Wall Sleeve Installation:

Note that the air conditioner dimensions are: 24 inches wide, 14¹/₂ inches high, and 18¹/₂ inches deep(without front). Install Air Conditioner according to these installation instructions to achieve the best performance. Save these installation instructions for future reference.

Items in Kit

You may not need all parts in the kit. Discard unused parts.

		Qty.
Tapered Spacer Blocks	17" Long	2
Centering/Support Blocks	4 ¹ / ₂ " x 3 ¹ / ₂ " x 1 ¹ / ₂ "	2
Plastic Divider	1 ¹ / ₈ " x 4 ¹ / ₂ " x 14 ¹ / ₂ "	1
Stuffer Seal	1" x 1 ¹ / ₂ " x 84"	1
Seal	1 ¹ / ₂ " x 1 ¹ / ₂ " x 26 ¹ / ₂ "	2
Seal	1 ¹ / ₂ " x 1 ¹ / ₂ " x 14"	2
Seal	1 ¹ / ₂ " x 3 ¹ / ₈ " x 26 ¹ / ₂ "	2
Seal	1 ¹ / ₂ " x 3 ¹ / ₈ " x 14"	2
Seal	1" x 3 ¹ / ₄ " x 14"	1
Trim Frame(side legs)		2
Trim Frame(top & bottom legs)		2
Ground Wire(green)		1
Nut for grounding screw		1
Grounding Screw		1
Grille(plastic)		1
Grille Aluminum		1
Nuts(plastic)		4
Screw Washer		4

INSTALLATION INSTRUCTIONS(CONTINUED)

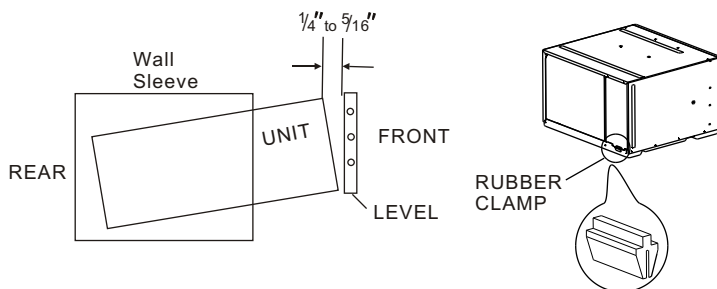
How to Install

1. Identify the wall-sleeve brand for your installation, from the chart below.

Brand	Wall Sleeve Dimensions (inches)		
	Width	Height	Depth
White-Westinghouse Frigidaire Carrier	25 $\frac{1}{2}$	15 $\frac{1}{4}$	16, 17 $\frac{1}{2}$ or 22
General Electric/Hotpoint	26	15 $\frac{5}{8}$	16 $\frac{7}{8}$
Whirlpool	25 $\frac{7}{8}$	16 $\frac{1}{2}$	17 $\frac{1}{8}$ or 23
Fedders/Emerson	27	16 $\frac{3}{4}$	16 $\frac{3}{4}$ or 19 $\frac{3}{4}$
Sears/Kenmore Carrier	25 $\frac{3}{4}$	16 $\frac{7}{8}$	18 $\frac{5}{8}$
Emerson/Fedders	26 $\frac{3}{4}$	15 $\frac{3}{4}$	15
Friedrich	27	16 $\frac{3}{4}$	16 $\frac{3}{4}$

NOTE: All wall sleeves used to mount the new Air Conditioner must be in sound structural condition and have a rear grille that securely attaches to sleeve, or rear flange that serves as a stop for the Air Conditioner.

CAUTION: When installation is complete the replacement unit **MUST** have a rearward slope as shown. Also, ensure the **RUBBER CLAMP** on the chassis at the back of the unit has been removed before placing the unit into the sleeve. But if the rearward slope is more than 1/2", do not remove the Rubber Clamp before installation.

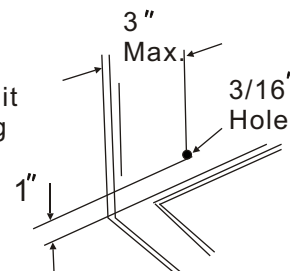


2. Remove old Air Conditioner from wall sleeve and prepare wall sleeve as follows:

- Clean interior (do not disturb seals).
- Wall sleeve must be securely fastened in wall before installing Air Conditioner.
Drive more nails or screws through sleeve, into wall, if needed.
- Repair paint if needed.

3. If not existing, drill a 3/16" clearance hole for grounding screw through left side of wall sleeve, in a clear area about 3 inches maximum (to suit) back from front edge of sleeve as shown below. Next attach ground wire inside sleeve, using grounding screw and nut. Pull loose end of ground wire out front of sleeve, and temporarily bend it down and around lower edge of sleeve.

Wall sleeve to unit
sleeve grounding



4. Prepare the wall sleeve for installation of the new unit per the following Brand instructions.

#1 Emerson	15" Deep
#2 Fedders	19 $\frac{3}{4}$ " Deep
#3 Fedders or Friedrich	16 $\frac{3}{4}$ " Deep
#4 General Electric/Hotpoint	16 $\frac{7}{8}$ " Deep
#5 Sears or Carrier	18 $\frac{5}{8}$ " Deep
#6 Whirlpool	17 $\frac{1}{8}$ " Deep
#7 Whirlpool	23" Deep
#8 White-Westinghouse/ Frigidaire/Carrier	16" + 17 $\frac{3}{4}$ " Deep
#9 White-Westinghouse/Frigidaire	22" Deep

5. Install new unit into wall sleeve.

6. To attach ground wire to the new unit, remove the screw from the left side front.

7. Assemble and install the Trim Frame (see instruction).

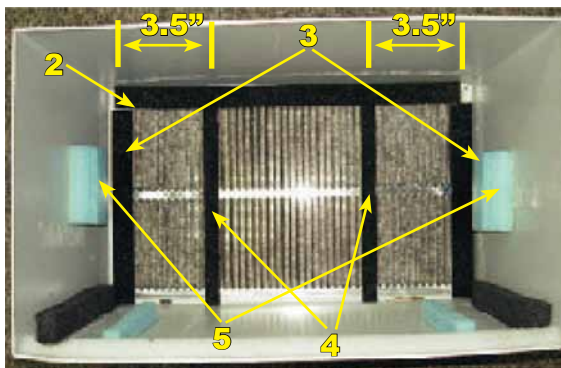
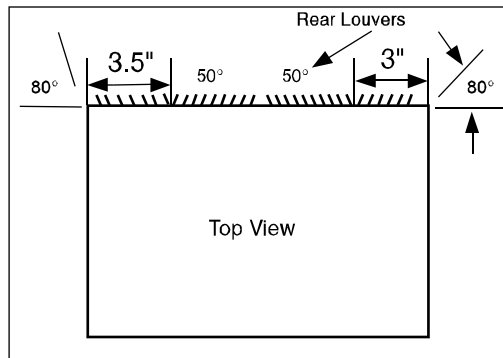
If this is an existing sleeve, and there is an existing rear grille, the louvers will have to be bent as per the instructions at the beginning of each section.

If this proves too difficult to accomplish; either:

1. Remove the existing grille.
2. Place the included aluminum grille towards the rear of the unit.
3. Mark through the hole positions.
4. Drill through the sleeves flanges with a 1/8" drill bit.
5. Attached the new grille with self-threading screws and washers(not included).
6. It is VERY IMPORTANT that the grille is installed exactly as shown below.



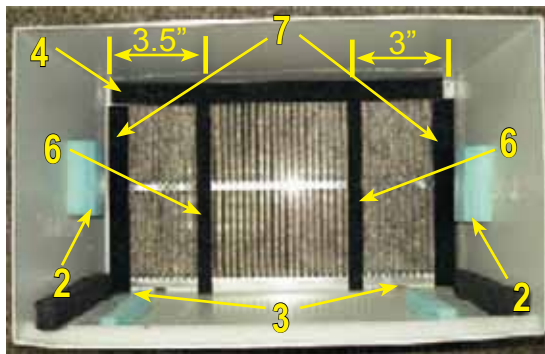
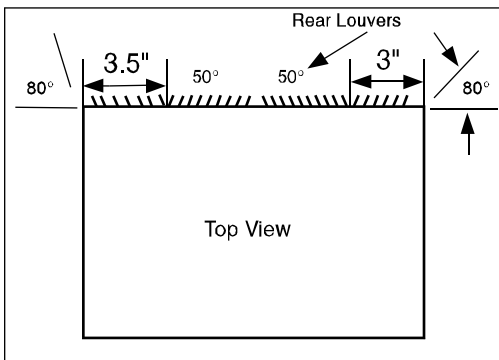
Wall Sleeve Brands:



#1 Emerson 15' Deep

1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here.
NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)
2. Attach (1) 1" x 3/8" x 25" long seal at the top of the sleeve. Remove the backing paper and press into position.
3. Attach the (2) 1" x 3/8" x 14" long seals to the bottom left and right sides of the sleeve.
4. Cut (2) 1" x 3/8" x 14" to 25" long seals, and attach them to the vertical sections of the rear grille as shown.
5. Attach (2) 4 1/2" x 3 1/2" x 1 1/2" centering/support blocks one on each side wall. Place in center of side wall with the tapered end facing the opening.
6. Gently slide unit into sleeve.
7. Before sliding all-the-way back, remove 2nd screw from front on the left side of unit.
8. Remove the plastic washer from the screw.
9. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
10. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
11. Seal & Frame the unit as described on page 22.
12. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

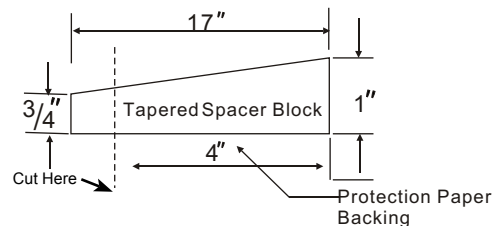
Wall Sleeve Brands:



#2 Fedders

19³/₄" Deep

1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here. **NOTE:** You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)
2. Attach (2) 4¹/₂" x 3¹/₂" x 1¹/₂" centering/support blocks one on each side wall. Place in center of side wall with the tapered end facing the opening.
3. Cut (2) 17" Tapered Spacer Blocks as shown below.

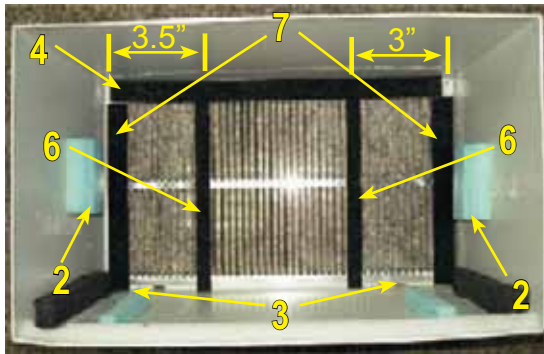
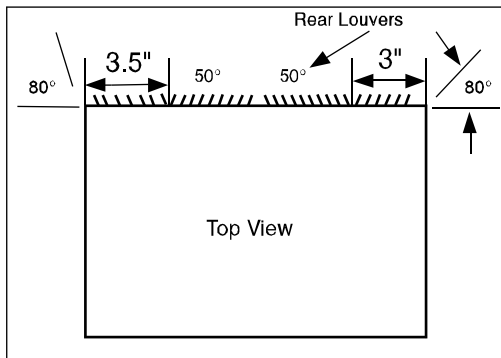


The 4" section is placed in front of the rib on base with the tapered end facing the back of the sleeve. The remaining portion will be placed behind the rib again sloping toward the rear of the sleeve. This helps induce a rearward slope on the unit.

4. Attach (1) 1" x 3/8" x 25" long seal at the top of the sleeve. Remove the backing paper and press into position.
5. Attach the (2) 1" x 3/8" x 14" long seals to the bottom left and right sides of the sleeve.
6. Cut (2) 1" x 3/8" x 14" to 25" long seals, and attach them to the vertical sections of the rear grille as shown.
7. Gently slide unit into sleeve.
8. Before sliding all-the-way back, remove 2nd screw from front on left side of unit.
9. Remove the plastic washer from the screw.
10. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
11. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
12. Seal & Frame the unit as described on page 22.
13. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

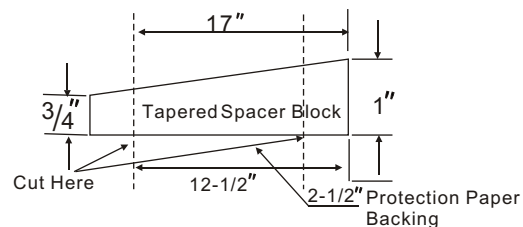
Wall Sleeve Brands:

#3 Fedders or Friedrich 16³/₄" Deep



1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here. **NOTE:** You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)

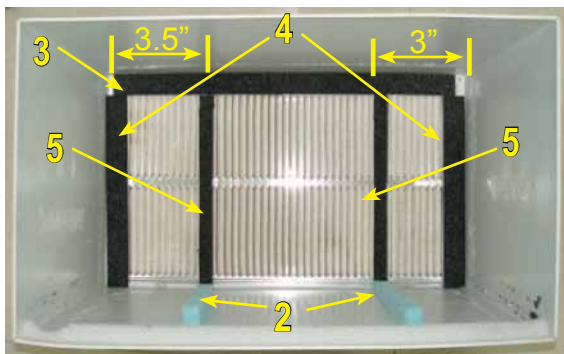
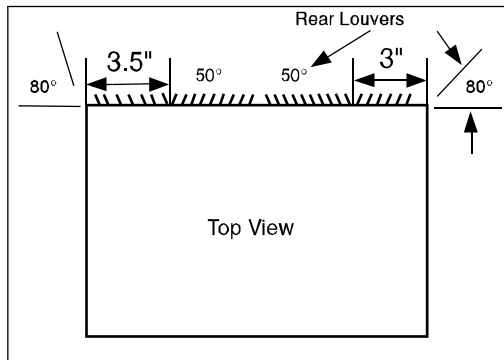
2. Attach (2) 4¹/₂" x 3³/₂" x 1¹/₂" centering/support blocks one on each side wall. Place in center of side wall with the tapered end facing the opening.
3. Cut (2) 17" Tapered Spacer Blocks as shown below into three pieces.



The 2 ¹/₂" section is placed in front of the rib on base with the tapered end facing the back of the sleeve. Cut the remaining portion to 12 ¹/₂" and placed behind the rib again sloping toward the rear of the sleeve. This helps induce a rearward slope on the unit.

4. Attach (1) 1" x 3/8" x 25" long seal at the top of the sleeve. Remove the backing paper and press into position.
5. Attach the (2) 1" x 3/8" x 14" long seals to the bottom left and right sides of the sleeve.
6. Cut (2) 1" x 3/8" x 14" to 25" long seals, and attach them to the vertical sections of the rear grille as shown.
7. Gently slide unit into sleeve.
8. Before sliding all-the-way back, remove 2nd screw from front on left side of unit.
9. Remove the plastic washer from the screw.
10. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
11. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
12. Seal & Frame the unit as described on page 22.
13. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

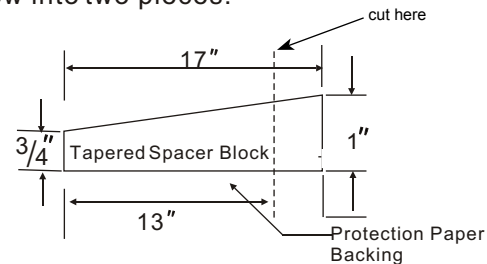
Wall Sleeve Brands:



#4 General Electra/Hotpoint 16⁷/₈" Deep

1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here. **NOTE:** You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)

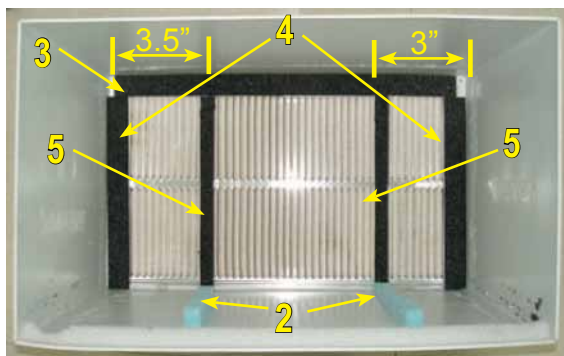
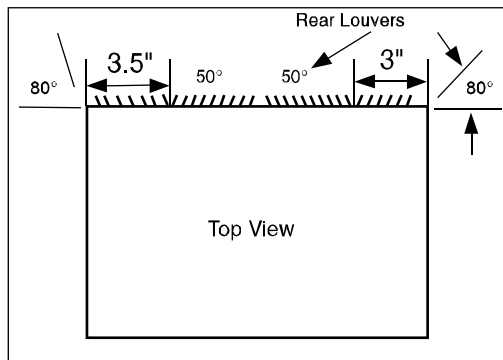
2. Cut (2) 17" Tapered Spacer Blocks as shown below into two pieces.



Install as shown with the tapered end $\frac{1}{2}$ " from the back of the sleeve. This helps induce a rearward slop on the unit.

4. Attach (1) 1" x $\frac{3}{8}$ " x 25" long seal at the top of the sleeve. Remove the backing paper and press into position.
5. Attach the (2) 1" x $\frac{3}{8}$ " x 14" long seals to the bottom left and right sides of the sleeve.
6. Cut (2) 1" x $\frac{3}{8}$ " x 14" to 25" long seals, and attach them to the vertical sections of the rear grille as shown.
7. Center unit and gently slide unit into sleeve.
8. Before sliding all-the-way back, remove 2nd screw from front on left side of unit.
9. Remove the plastic washer from the screw.
10. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
11. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
12. Seal & Frame the unit as described on page 22.
13. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

Wall Sleeve Brands:

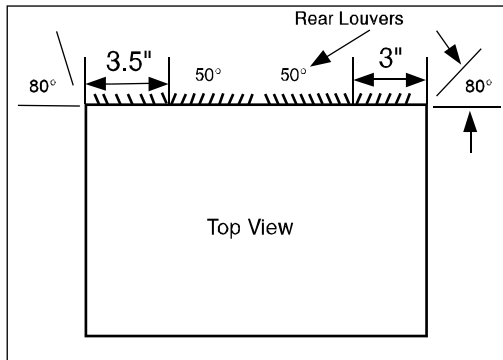


#5 Sears or Carrier 51S Series (18⁵/₈" Deep)

- Remove existing rear grille and replace with provided louvered rear panel. Install as shown here.
NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)
- Install (2) tapered spacer blocks to the floor of the sleeve as shown. **DO NOT CUT THE BLOCKS.** This helps induce a rearward slop on the unit.
Install as shown with the tapered end $\frac{1}{2}$ " from the back of the sleeve. This helps induce a rearward slop on the unit.
- Attach (1) 1" x 3/8" x 25" long seal at the top of the sleeve. Remove the backing paper and press into position.
- Attach the (2) 1" x 3/8" x 14" long seals to the bottom left and right sides of the sleeve.
- Cut (2) 1" x 3/8" x 14" to 25" long seals, and attach them to the vertical sections of the rear grille as shown.
- Center unit and gently slide unit into sleeve.
- Before sliding all-the-way back, remove 2nd screw from front on left side of unit.
- Remove the plastic washer from the screw.
- Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
- Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
- Seal & Frame the unit as described on page 22.
- If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

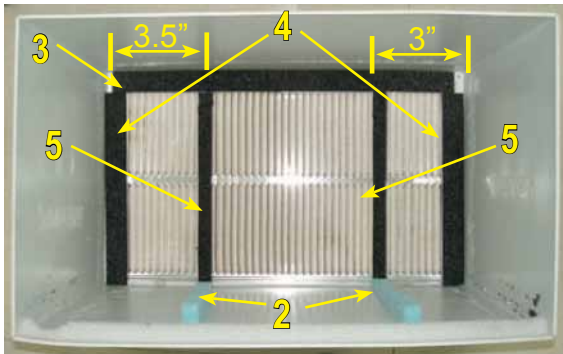
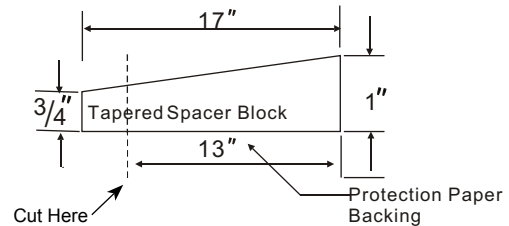
Wall Sleeve Brands:

#6 Whirlpool 17¹/₈" Deep



1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here. **NOTE:** You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)

2. Cut (2) 17" Tapered Spacer Blocks as shown below into two pieces.

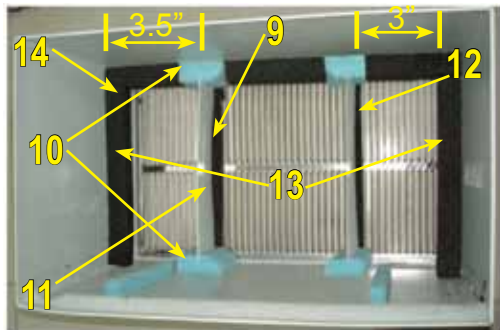
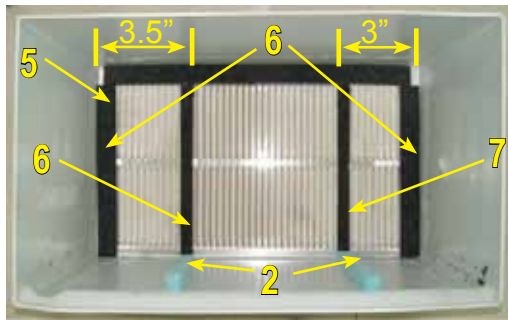
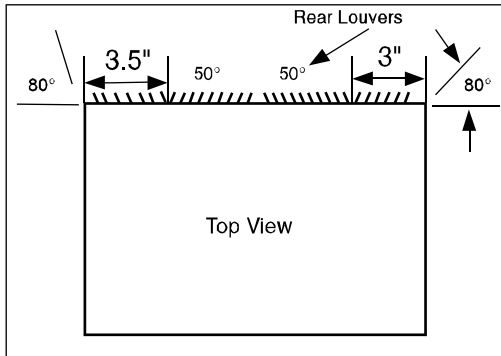


Install to the floor of the sleeve as shown. This helps induce a rearward slop on the unit.

3. Attach (1) 1" x 3/8" x 25" long seal at the top of the sleeve. Remove the backing paper and press into position.
4. Attach the (2) 1" x 3/8" x 14" long seals to the left and right sides of the sleeve.
5. Cut (2) 1" x 3/8" x 14" to 25" long seals, and attach them to the vertical sections of the rear grille as shown.
6. Center unit and gently slide unit into sleeve.
7. Before sliding all-the-way back, remove 2nd screw from front on left side of unit.
8. Remove the plastic washer from the screw.
9. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
10. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
11. Seal & Frame the unit as described on page 22.
12. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.



Wall Sleeve Brands:



#7 Whirlpool (23" Deep)

1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here.
NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)

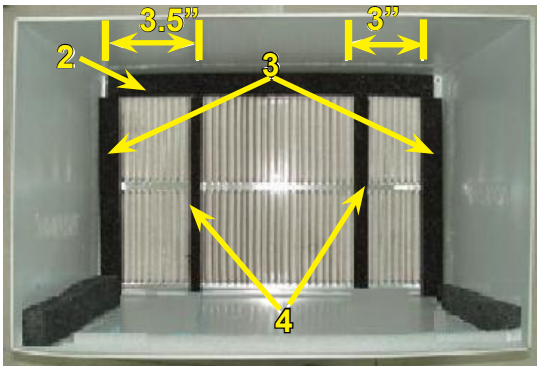
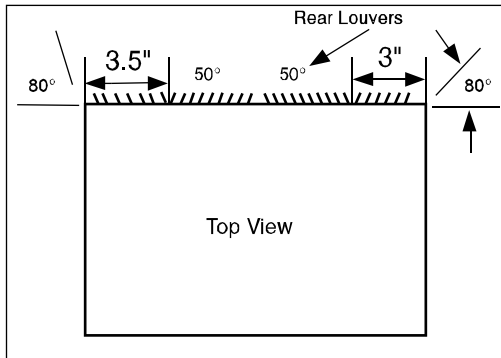
Because of the increased unit depth, first try dry fitting using the method described below:

2. Place (2) 1" x 1 1/2" x 14" seals against each side. (do not attach)
3. Gently slide unit in and check if amount extending from the sleeve is sufficient once the trim frame is attached.
4. If position is Ok, remove unit and proceed to the next step. If not go to step 9.
5. Attach (1) 1" x 1 1/2" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
6. Attach (2) 1" x 1 1/2" x 14" seals to the left and right sides of the sleeve.
7. Cut (2) 1" x 1 1/2" x 14" to 25" long seals and attach to the vertical sections of the grille as shown.
8. Attach the tapered spacer blocks to the floor of the sleeve. Now go to step 15.

Use these next steps if the unit requires extra extension into the room.

9. Attach 1" x 3/4" x 14" long seal over the solid vertical portion of the rear grille.
10. Attach (2) 4 1/2" x 3 1/2" x 1 1/2" foam blocks with the slot overlapping the seal above.
11. Install the divider into the slots of the foam blocks. You may need to trim the length to size.
12. Repeat steps 9-11 for the other vertical shown portion of the grille as shown in the picture.
13. Attach (2) 1" x 1 1/2" x 14" seals along the sides of the sleeve again making sure all seals are flush.
14. Cut the 1" x 1 1/2" x 25" seal to fit the top of the sleeve. The pieces must fit flush to the edge of the divider.
15. Center unit and gently slide unit into sleeve.
16. Before sliding all-the-way back, remove 1st screw from front on left side of unit.
17. Remove the plastic washer from the screw.
18. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
19. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
20. Seal & Frame the unit as described on page 22.
21. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

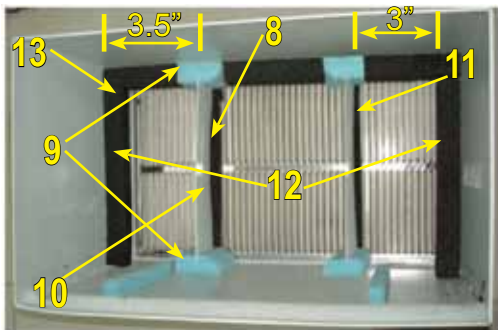
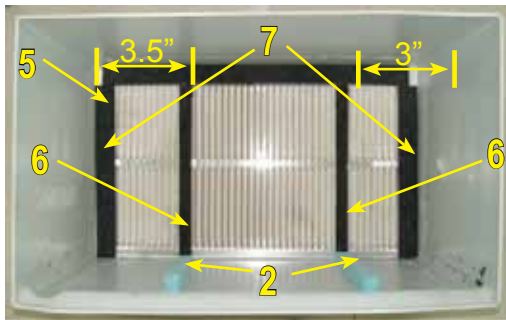
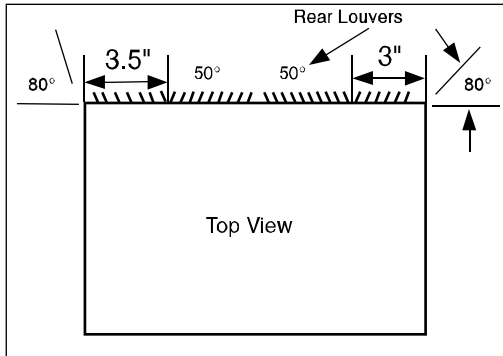
Wall Sleeve Brands:



#8 White Westinghouse/Frigidaire/ Carrier 52F Series (16" + 17 1/2" Deep)

1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here. **NOTE:** You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)
2. Attach (1) 1" x 3/8" x 25" long seal at the top of the sleeve. Remove the backing paper and press into position.
3. Attach the (2) 1" x 3/8" x 14" long seals to the left and right sides of the sleeve.
4. Cut (2) 1" x 3/8" x 14" long seals and attach them to the vertical sections of the rear grille as shown.
5. Center unit and gently slide unit into sleeve.
6. Before sliding all-the-way back, remove 2nd screw from front on left side of unit.
7. Remove the plastic washer from the screw.
8. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
9. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
10. Seal & Frame the unit as described on page 22.
11. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

Wall Sleeve Brands:



#9 White Westinghouse or Frigidaire (23' Deep)

1. Remove existing rear grille and replace with provided louvered rear panel. Install as shown here.
NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille. (see pg. 11)

Because of the increased unit depth, first try dry fitting using the method described below:

2. Place (2) 1" x 1 1/2" x 14" seals against each side. (do not attach)
3. Gently slide unit in and check if amount extending from the sleeve is sufficient once the trim frame is attached.
4. If position is Ok, remove unit and proceed to the next step. If not go to step 8.
5. Attach (1) 1" x 1 1/2" x 14" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
6. Attach (2) 1" x 1 1/2" x 14" seals to the left and right sides of the sleeve.
7. Cut (2) 1" x 1 1/2" x 14" to 25" long seals and attach them vertically to the rear grille 3.5" from the left side, repeat and attach 3" from the right side.

Use these next steps if the unit requires extra extension into the room.

8. Attach 1" x 3/4" x 14" long seal over the solid vertical portion of the rear grille.
9. Attach (2) 4 1/2" x 3 1/2" x 1 1/2" foam blocks with the slot overlapping the seal above.
10. Install the divider into the slots of the foam blocks. You may need to trim the length to size.
11. Repeat steps 8-10 for the other vertical shown portion of the grille as shown in the picture.
12. Attach (2) 1" x 1 1/2" x 14" seals along the sides of the sleeve again making sure all seals are flush.
13. Cut the 1" x 1 1/2" x 25" seal to fit the top of the sleeve. The pieces must fit flush to the edge of the divider.
14. Center unit and gently slide unit into sleeve.
15. Before sliding all-the-way back, remove 1st screw from front on left side of unit.
16. Remove the plastic washer from the screw.
17. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.
18. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
19. Seal & Frame the unit as described on page 22.
20. If you have difficulty with mounting the grill to the sleeve, follow the instructions for direct mounting on Page 21.

Direct Unit Mounting:

The previous directions are the preferable way to mount the new rear grill. The unit's performance is slightly better and the possibility of drafts are reduced. As a last resort, direct mounting of the grille to the unit can be considered.

Note: The grille must be installed prior to inserting the unit into the sleeve.

1. Attach the (2) seal pieces (1" x 3/8" x 14") as shown in Fig. 1.
 2. Position the grille over the rear of the unit making sure that:
 - a. The double set of screw holes are at the bottom.
 - b. The fins of the grill are pointed away from the unit.
 3. Align the top of the grille with the top of the unit. Ensure that the overhang on each side is equal.
 4. If the unit has not been pre-drilled (some models), carefully drill 4-1/8" holes through the grille and into the side flange of the unit approximately 1 1/2" to 2" from the top and bottom as in Fig. 2, 3.
- (Be careful not to drill into the copper heat exchanger coils.)
5. Install (4) #8 self tapping screws to affix the grille to the unit.
 6. Insert the unit into the sleeve.

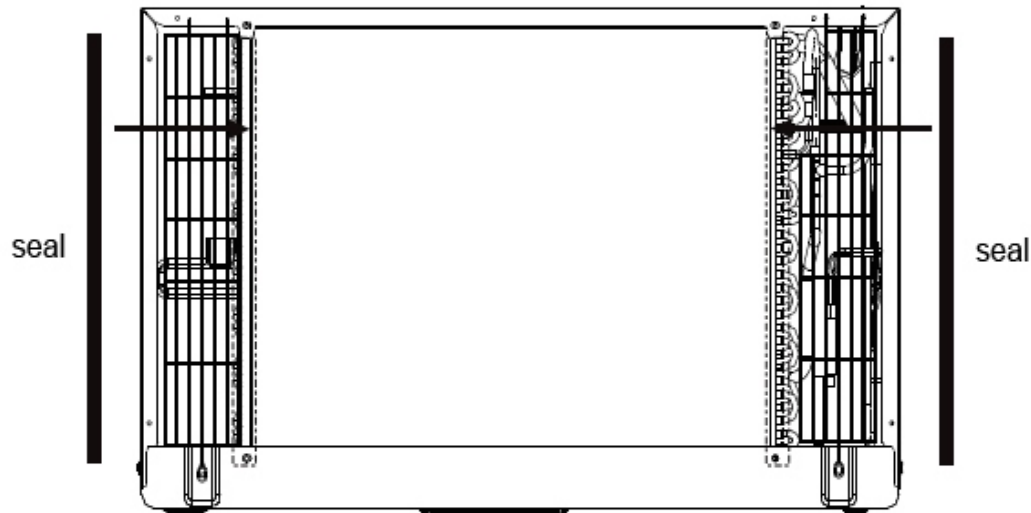


Fig. 1

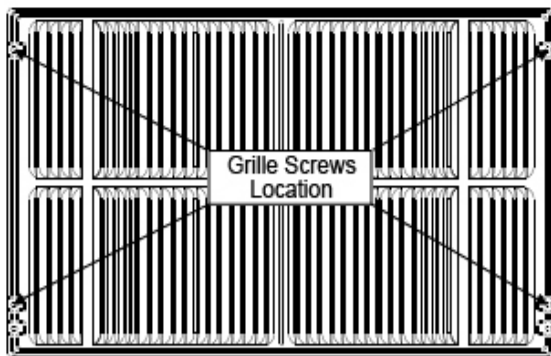


Fig. 2

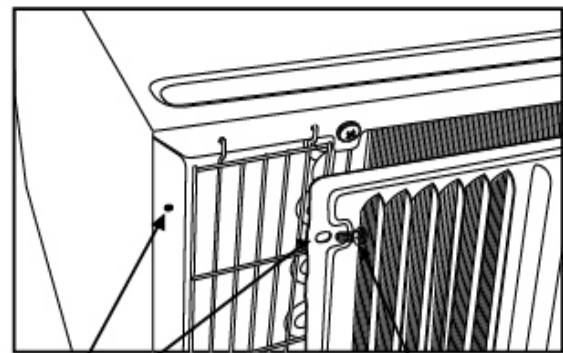


Fig. 3

1/8 Hole
Grille &
Flange

8 Screw



1. Install the 1"x1½"x84" long stuffer-seal between the wall-sleeve and the unit. A flat-bladed screwdriver or putty knife is recommended.



2. Assemble the trim frame by inserting top and bottom pieces into side pieces and snapping into place.



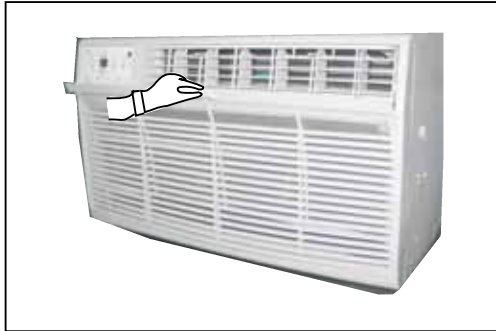
3. Pull cord through trim frame then slide over unit until flush with wall.



CARE AND CLEANING

WARNING!

Clean your air conditioner occasionally to keep it looking new. **Be sure to unplug the unit before cleaning to prevent shock or fire hazards.**



Air Filter Cleaning

The air filter should be checked at least once a month to see if cleaning is necessary. Trapped particles in the filter can build up and cause an accumulation of frost on the cooling coils.

- Grasp the filter by the center and pull up and out.
- Wash the filter using liquid dishwashing detergent and warm water. Rinse filter thoroughly. Gently shake excess water from the filter. Be sure the filter is thoroughly dry before replacing. Or, instead of washing you may vacuum the filter clean.

Note: Never use hot water over 104°F (40°C) to clean the air filter. Never attempt to operate the unit without the air filter.

Cabinet Cleaning

- Be sure to unplug the air conditioner to prevent shock or fire hazard. The cabinet and front may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mild liquid dishwashing detergent. Rinse thoroughly and wipe dry.
- Never use harsh cleaners, wax or polish on the cabinet front.
- Be sure to wring excess water from the cloth before wiping around the controls. Excess water in or around the controls may cause damage to the air conditioner.
- Plug in air conditioner.

Winter Storage

If you plan to store the air conditioner during the winter, remove it carefully from the window according to the installation instructions. Cover it with plastic or return it to the original carton.

TROUBLESHOOTING TIPS

Before calling for service, review this list. It may save you time and expense. This list includes common occurrences that are not the result of defective workman-ship or materials in this appliance.

Problem	Solution
Air conditioner does not start	<i>Wall plug disconnected. Push plug firmly into wall outlet.</i>
	<i>House fuse blown or circuit breaker tripped. Replace fuse with time delay type or reset circuit breaker.</i>
	<i>Plug Current Device Tripped. Press the RESET button.</i>
	<i>Control is OFF. Turn Control ON and set to desired setting.</i>
Air from unit does not feel cold enough	<i>Room temperature below 62°F (17°C). Cooling may not occur until room temperature rises above 62°F (17°C).</i>
	<i>Temperature sensing element touching cold coil, located behind air filter. Straighten tube away from coil.</i>
	<i>Reset to a Lower temperature.</i>
	<i>Compressor shut-off by changing modes. Wait approximately 3 minutes and listen for compressor to restart when set in the COOL mode.</i>
Air conditioner cooling, but room is too warm- ice forming on cooling coil behind decorative front.	<i>Outdoor temperature below 64°F (18°C). To defrost the coil, set FAN ONLY mode.</i>
	<i>Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set to FAN ONLY mode.</i>
	<i>Thermostat set too cold for night-time cooling. To defrost the coil, set to FAN ONLY mode. Then, set temperature to a Higher setting.</i>
Air conditioner cooling, but room is too warm- NO ice forming on cooling coil behind decorative front.	<i>Dirty air filter- air restricted. Clean air filter. Refer to Care and Cleaning section.</i>
	<i>Temperature is set too High, set temperature to a Lower setting.</i>
	<i>Air directional louvers positioned improperly. Position louvers for better air distribution.</i>
	<i>Front of units is blocked by drapes, blinds, furniture, etc. - restricts air distribution. Clear blockage in front of unit.</i>
	<i>Doors, windows, registers, etc. Open- cold air escapes. Close doors, windows, registers.</i>
Air conditioner turns on and off rapidly	<i>Unit recently turned on in hot room. Allow additional time to remove " Stored heat " from walls, ceiling, floor and furniture.</i>
	<i>Dirty air filter- air restricted. Clean air filter.</i>
Noise when unit is cooling	<i>Outside temperature extremely hot. Set FAN speed to a Higher setting to bring air past cooling coils more frequently.</i>
	<i>Air movement sound. This is normal . If too loud, set to a slower FAN setting.</i>
Water dripping INSIDE when unit is cooling.	<i>Window vibration - poor installation. Refer to installation instructions or check with installer.</i>
	<i>Improper installation. Tilt air conditioner slightly to the the rear/outside to allow water drainage. Refer to installation instructions - check with installer.</i>

Problem	Solution
Water dripping OUTSIDE when unit is cooling.	<i>Unit removing large quantity of moisture from humid room. This is normal during excessively humid days.</i>
Remote Sensing Deactivating Prematurely (some models)	<i>Remote control not located within range. Place remote control within 20 feet & 180° radius of the front of the unit.</i> <i>Remote control signal obstructed. Remove obstruction.</i>
Room too cold	<i>Set temperature too low. Increase set temperature.</i>

Design, material, performance data and components
subject to change without notice.

HEAT CONTROLLER, INC.

1900 Wellworth Ave., Jackson, MI 49203 ♦ Ph. 517-787-2100 ♦ Fax 517-787-9341

THE QUALITY LEADER IN CONDITIONING AIR

www.heatcontroller.com