

# Installation Instructions

Questions? Call 844-GE4-PTAC (or 844-434-7822 ) or Visit our Website at: GEAppliances.com

## BEFORE YOU BEGIN

Read these instructions completely and carefully.

- **IMPORTANT** – Save these instructions for local inspector's use.
- **IMPORTANT** – Observe all governing codes and ordinances.
- **Note to Installer** – Be sure to leave these instructions with the owner.
- **Note to Owner** – Keep these instructions for future reference.
- Proper installation is the responsibility of the installer.
- Product failure due to improper installation is not covered under the Warranty.
- You must use all supplied parts and use proper installation procedures as described in these instructions when installing this air conditioner.

## IMPORTANT ELECTRICAL SAFETY—READ CAREFULLY

### **! CAUTION**

- Follow the National Electrical Code (NEC) or local codes and ordinances.
- For personal safety, this Zoneline must be properly grounded.
- Protective devices (fuses or circuit breakers) acceptable for Zoneline installations are specified on the nameplate of each unit.
- Do not use an extension cord with this unit.
- Aluminum building wiring may present special problems—consult a qualified electrician.
- When the unit is in the OFF position, there is still voltage to the electrical controls.
- Disconnect the power to the unit before servicing by:
  - 1 Removing the power cord (if it has one) from the wall receptacle. OR
  - 2 Removing the branch circuit fuses or turning the circuit breakers off at the panel.

### **! ATTENTION**

- Suivez le Code national de l'électricité (CNE) ou vos ordonnances et codes locaux.
- Pour votre sécurité personnelle, ce Zoneline doit être bien mis à la terre.
- Les appareils protecteurs (fusibles ou disjoncteurs) acceptables pour installer votre Zoneline sont indiqués sur la plaque signalétique de chaque appareil.
- N'utilisez jamais de rallonge électrique avec cet appareil.
- Les fils de bâtiment en aluminium peuvent poser des problèmes particuliers—consultez un électricien qualifié.
- Quand votre appareil est en position OFF (arrêt), il reste de la tension dans les commandes électriques.
- Débranchez le courant de votre appareil avant de l'entretenir ou de le réparer en:
  1. Enlevant le cordon d'alimentation (le cas échéant) de la prise murale. OU
  2. Enlevant les fusibles du circuit de dérivation ou en débranchant les disjoncteurs de dérivation au panneau.

### **! PRECAUCIÓN**

- Siga las instrucciones del National Electrical Code (Código de Electricidad Nacional) (NEC) o los códigos u ordenanzas locales.
- Para su seguridad personal, el acondicionador de aire Zoneline debe tener una adecuada conexión a tierra.
- Los dispositivos de protección (fusibles o disyuntores) adecuados para las instalaciones de Zoneline se encuentran especificados en la placa de cada unidad.
- No utilice un cable de extensión con esta unidad.
- El cableado de aluminio puede presentar problemas especiales: consulte a un electricista calificado.
- Cuando la unidad se encuentra en la posición OFF (apagado), todavía hay voltaje en los controles eléctricos.
- Antes de realizar reparaciones en la unidad, desconecte el suministro de energía de la siguiente manera:
  - 1 Retire el cable eléctrico (si posee uno) del receptáculo de la pared. O
  - 2 Retire los fusibles de la sección o apague el disyuntor desde el panel.

## AIR CONDITIONER BREAK-IN PERIOD

**NOTE** – As with any mechanical device with moving parts, this unit will have a wear-in period. AFTER INSTALLATION, this unit should be operated for 48 hours to achieve optimum efficiency.

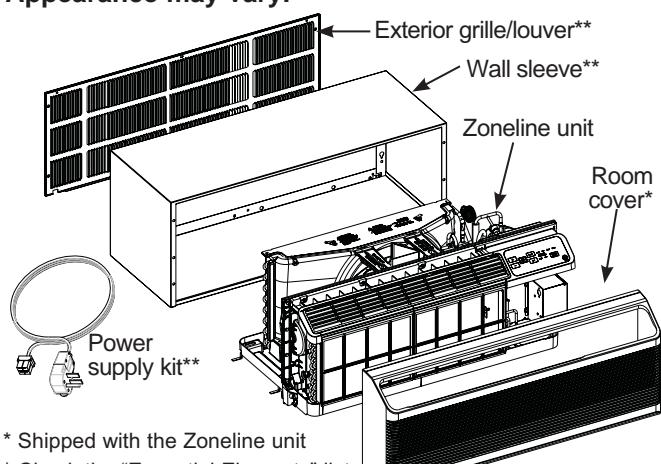
## TOOLS YOU WILL NEED



Phillips screwdriver  
or 5/16" Nut driver

## ZONELINE COMPONENTS

Appearance may vary.

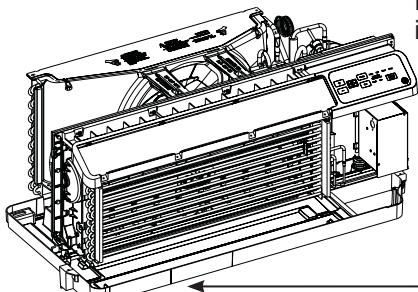


\* Shipped with the Zoneline unit

\*\* Check the "Essential Elements" list on the unit located on front of the base pan

# Installation Instructions

## REPLACING AN EXISTING UNIT



Check the "Essential Elements" label for important information.

### Use the correct wall sleeve

This unit is designed to be installed in a GE Appliances plastic or insulated metal wall sleeve. This minimizes condensation from forming on the room side of the case.

**NOTE:** There are several extra holes in the unit side flanges for installation in wall sleeves other than GE Appliances. To avoid damaging the flange insulation, the installer should use an awl or other sharp tool to puncture the insulation in the appropriate holes before installing the attachment screws.

### Use the correct outdoor grille

You should use the outdoor grilles shown on the "Essential Elements" label on the base pan.

- If an existing grille is not replaced, capacity and efficiency will be reduced and the unit may fail to operate properly or fail prematurely. A deflector kit, RAK40, may be used with grilles that were not designed for your new GE Appliances Zonelines. The RAK40 contains air deflectors and gaskets that mount to the unit to direct the hot exhaust air away from the air intake to allow the unit to function properly. **The grille must have a 65% minimum free area (as calculated by ASHRAE).** See the Architects and Engineers Data Manual for more detailed information.
- Any vertical deflectors in a non GE Appliances existing rear grille should be removed to decrease condenser air recirculation that can cause the unit to "short-cycle" and lead to premature component failure.

### Use the correct power cord

Codes require the use of arc fault or leakage current detection devices on 230/208-volt installations.

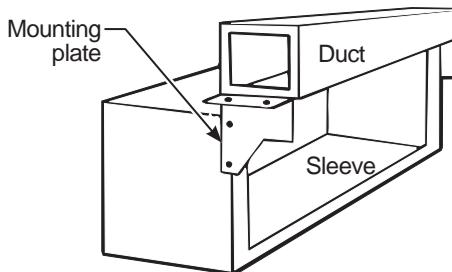
### Replacing a ducted unit

#### New ducted installation:

If this unit is to be installed in a new ducted application using a duct adapter kit, the kit must be installed before the unit is placed in the wall case. The installation instructions are packed with the kit.

#### Duct kits available:

RAK6053  
RAK601B/602B



#### Existing ducted installation:

Replacement of an existing ducted unit may require different components. Request this information from your sales representative. **Duct seals on existing unit need to be removed and added to the new unit.**

- **Replacing 230/208 volt units:**

See page 19.

- **Replacing 265 volt units:**

See page 20.

**When using a duct kit, you must always turn Mode 7 to ON " □ "** See Mode instructions on page 10.



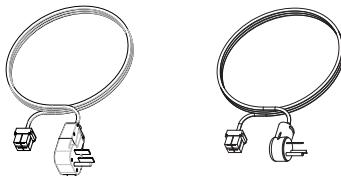
Duct Mode  
Shown ON

# Installation Instructions

## 230/208 VOLT ELECTRICAL CONNECTION OPTIONS

### POWER CORD CONNECTION

Depending on application, a power supply kit with LCDI must be used to supply power to the Zoneline unit. The appropriate kit is determined by the voltage, the means of electrical connection and the amperage of the branch circuit.



Power supply kit  
(Appearance may vary)

Connections of 208 or 230-volt circuits may be with a power supply kit or a junction box kit.

All wiring, including installation of the receptacle, must be in accordance with the NEC and local codes, ordinances and regulations. Codes require the use of an arc fault or leakage current detection device on the power cord except direct connect. Be sure to select the correct cord for your installation.



Tandem  
15 Amp



Perpendicular  
20 Amp



Large Tandem  
30 Amp

230/208 volt receptacle configuration

Branch Circuit and Unit Amperage Rating	Proper GE Appliances Power Cord with LCDI Device
15	RAK315P
20	RAK320P
30	RAK330P

Power cords may include an arc fault interruption or a leakage current detection interruption device. A test and reset button is provided on the plug case or the inline case. The device should be tested on a periodic basis by first pressing the TEST button and then the RESET button. If the TEST button does not trip or if the RESET button will not stay engaged, discontinue use of the Zoneline and contact a qualified service technician.

### ELECTRICAL SUBBASE CONNECTION

230/208-volt models may be installed using one of the following electrical subbases:

Branch Circuit and Unit Amperage Rating	Proper GE Appliances Subbase Kit
15	RAK204D15C
20	RAK204D20C
30	RAK204D30C

Electrical subbases provide an enclosure for direct connection or enclosed receptacles. The subbase kit includes the power cord.

The instructions provided with the selected subbase kit must be carefully followed. It is the responsibility of the installer to ensure the connection of components is done in accordance with these instructions and all electrical codes.

When using a sub-base electrical connection, the **RAK4002D Junction Box is required** for a complete and proper installation.

### DIRECT CONNECTION

Order one of the following Kits for 230/208-volt direct connection as required:

Branch Circuit and Unit Amperage Rating	Power Supply Kit
15	RAK315D
20	RAK320D
30	RAK330D

Review installation instructions provided with direct connect kits for detailed assembly instructions.

When using a direct connection, the **RAK4002D Junction Box is required** for a complete and proper installation.

# Installation Instructions

## 265 VOLT ELECTRICAL CONNECTION OPTIONS



### WARNING

Connection of this 265 V AC product to a branch circuit **MUST** be done by direct connection in accordance with the National Electrical Code. Plugging this unit into a building-mounted exposed receptacle is not permitted by code.

These models must be installed using the appropriate GE Appliances power supply kit for the branch circuit amperage and the electrical resistance heater wattage desired. Use the POWER CONNECTION CHART on page 21 to determine the correct kit required. One of the following installation methods must be used:



### AVERTISSEMENT

Vous DEVEZ brancher ce produit alimenté par courant alternatif de 265 volts au circuit de dérivation par branchement direct conformément au Code national d'électricité. Le Code n'autorise pas le branchement menant à un appareil à une prise exposée montée sur le bâtiment.

Vous devez installer ces modèles à l'aide de la bonne trousse d'alimentation électrique GE Appliances pour l'amperage du circuit de dérivation et la puissance du chauffage à résistance électrique désirée. Utilisez le Tableau de contact électrique, page 21, pour déterminer la bonne trousse requise. Vous devez utiliser l'une des méthodes suivantes d'installation.



### ADVERTENCIA

La conexión de este producto de 265 voltios de CA a un circuito derivado DEBE realizarse mediante una conexión directa de acuerdo a las indicaciones del NEC. El código no permite enchufar esta unidad a una caja externa.

Estos modelos deben instalarse utilizando el kit de GE Appliances de suministro de energía adecuado para el amperaje de circuito derivado y el vatijaje deseado para el calefactor de resistencia eléctrica. Utilice la TABLA DE CONEXIONES ELÉCTRICAS en la página 21 para determinar cuál es el kit necesario. Debe utilizarse uno de los siguientes métodos de instalación.

### A. FOR SUBBASE INSTALLATION

Electrical subbase kits are available to provide a flexible enclosure for direct connection.

Branch Circuit and Unit Amperage Rating	Proper GE Appliances Subbase Kit
15	RAK204E15C
20	RAK204E20C
30	RAK204E30C

The instructions provided with the selected subbase kit must be carefully followed. The subbase kit includes the power connection kit. It is the responsibility of the installer to ensure the connection of components is done in accordance with these instructions and all electrical codes.

### B. FOR DIRECT CONNECT INSTALLATION

If an electrical subbase is not used, direct connection to branch circuit wiring inside the provided junction box must be done in accordance with the following steps.

Order the following Kit for 265-volt direct connection as required:

Branch Circuit and Unit Amperage Rating	Power Supply Kit
15	RAK515D
20	RAK520D
30	RAK530D

Review installation instructions provided with power cord or direct connect kits for detailed assembly instructions.

# Installation Instructions

## POWER CONNECTION CHART

### Power Cord Connections

230/208 Volt Power Supply Kits with Current Leakage Detection Device (1)	Wall Plug Configuration	Circuit Protective Device	Heater Wattage @ 230/208 Volts
RAK315P/SP RAK320P/SP RAK330P/SP	Tandem Perpendicular Large Tandem	15-Amp Time-Delay Fuse or Breaker 20-Amp Time-Delay Fuse or Breaker 30-Amp Time-Delay Fuse or Breaker	2.40/1.96 KW 3.40/2.78 KW 4.80/3.93 KW (High Fan) 3.80/3.11 KW (Low Fan)

### Direct Connections

230/208 Volt Power Supply Kits (2)	Circuit Protective Device	Heater Wattage @ 230/208 Volts
RAK315D RAK320D RAK330D	15-Amp Time-Delay Fuse or Breaker 20-Amp Time-Delay Fuse or Breaker 30-Amp Time-Delay Fuse or Breaker	2.40/1.96 KW 3.40/2.78 KW 4.80/3.93 KW (High Fan) 3.80/3.11 KW (Low Fan)

265 Volt Power Supply Kits (3)	Circuit Protective Device	Heater Wattage @ 265 Volts
RAK515D RAK520D RAK530D	15-Amp Time-Delay Fuse or Breaker 20-Amp Time-Delay Fuse or Breaker 30-Amp Time-Delay Fuse or Breaker	2.40 KW 3.40 KW 4.80 KW (High Fan) 3.8 KW (Low Fan)

- (1) Kits ending in SP do not have an LCDI device and therefore can only be used in a sub-base. A junction box (purchased separately) is required with SP kits.
- (2) A junction box (purchased separately) is required with these kits.
- (3) The required junction box comes pre-installed on the chassis.

# Installation Instructions

## INSTALLING THE ZONELINE

### 1. INSTALL THE WALL SLEEVE AND EXTERIOR GRILLE

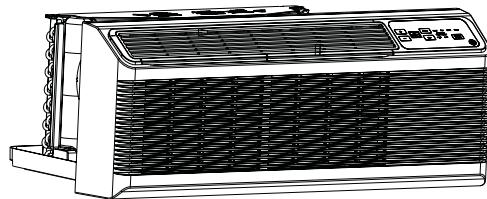
The RAB 81/81B series or RAB78 wall sleeve must be properly installed per instructions packed with the sleeve.

- Assembly the wall sleeve as detailed in the instructions packed with it. Ensure all pieces are properly snapped together.
- Attach the outdoor panel to the rear of the assembly to help close off the building from the elements.
- Install, secure and caulk the sleeve.
- When the chassis is ready to be installed, remove the outdoor panel and then install and secure the grille prior to installing the chassis.
- Install the exterior grille from the room side following instructions packed with the grille.

**NOTE:** For installation with a subbase or duct adapter, see the instructions packed with those kits.

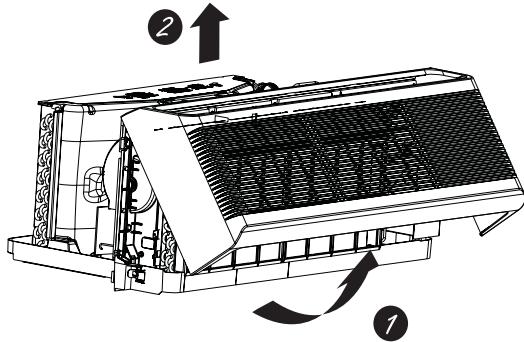
### 2. PREPARE THE UNIT

- Carefully remove the foam shipping blocks from the room front, compressor and outdoor fan. There may be multiple blocks and pieces of shipping tape that need to be removed.

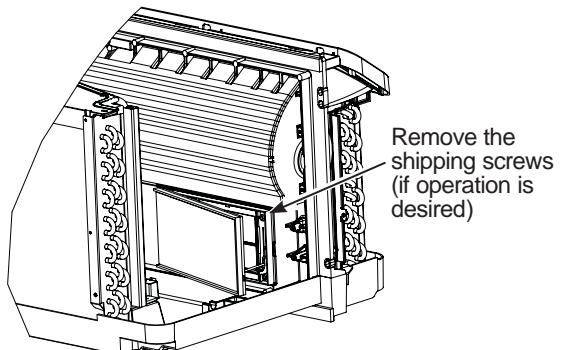


Shipping tape  
(Locations may vary)

- Remove the room cover by pulling it out at the bottom to release it (1); then lift it up to clear the rail along the unit top (2).



- If vent door is to be operational, remove shipping screws from the front side of the vent door, if present.



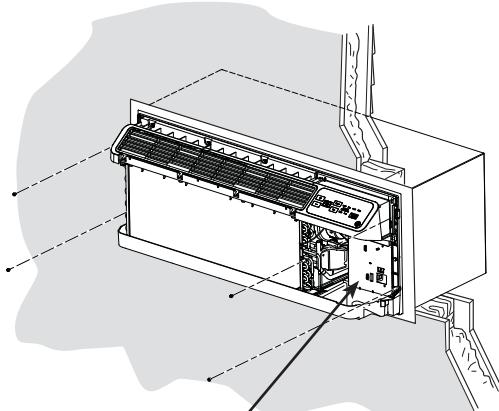
# Installation Instructions

## INSTALLING THE ZONELINE (cont.)

### 3. INSTALL THE UNIT INTO THE WALL SLEEVE

Slide the unit into the wall sleeve and secure with four screws through the unit flange holes.

The four screws will be located in a sealed bag that sits under the control panel, sitting in the pocket in the base pan.

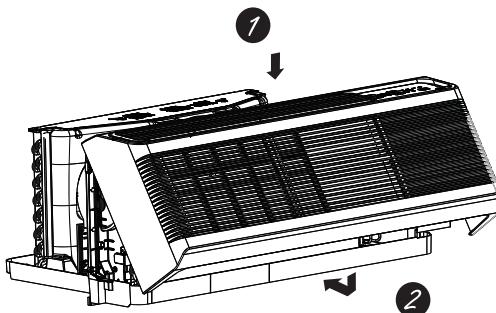


The four wall sleeve screws will be taped to the pocket in front of the control box.

**NOTE:** There are several extra holes in the unit side flanges for installation in wall sleeves other than GE Appliances To avoid damaging the flange insulation, the installer should use an awl or other sharp tool to puncture the insulation in the appropriate holes before installing the attachment screws.

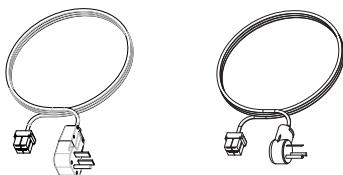
### 5. REPLACE THE ROOM FRONT

Reinstall the room cover by aligning and placing the top rail of the room cover over the chassis (1), then pushing it in at the bottom (2).



### 4. CONNECT POWER CORD OR DIRECT CONNECT KIT

Review installation instructions provided with power cord or direct connect kits for detailed assembly instructions.



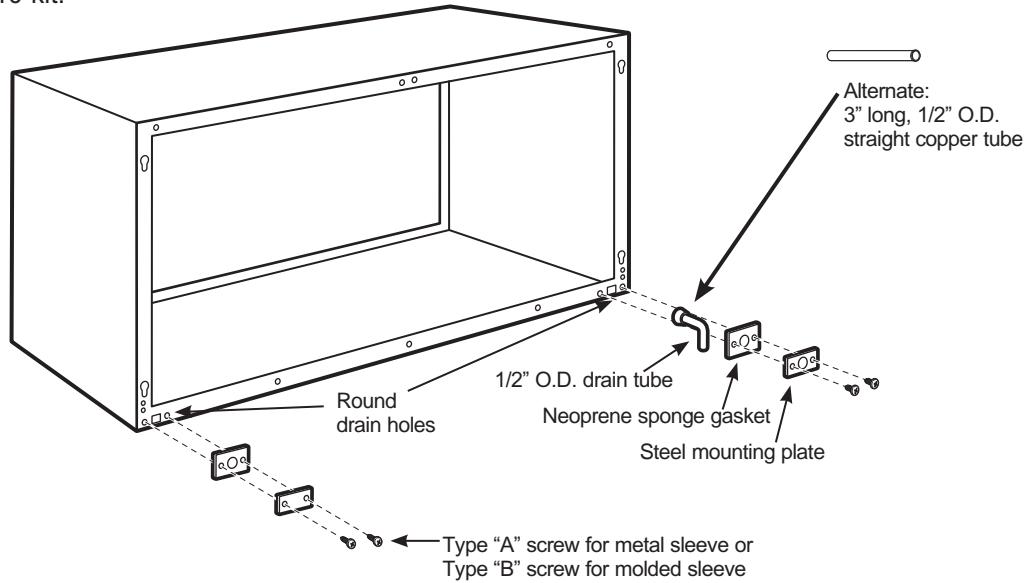
Power supply kit  
(Appearance may vary)

# Installation Instructions

## OPTIONAL—DRAIN KIT INSTALLATION

### External Drain

See the Installation Instructions  
in the RAD10 kit.



### Internal Drain

See the Installation Instructions  
in the RAD10 kit.

