

Project Name: **Residential Packaged Units R454B--CFM Distributors**

Unit Model #: **PG3E36L07S31**

Quantity: **1 Tag #: 3 ton 208/230/3**

System: **PG3E36L07S31**

## Cooling Performance

|                              |             |
|------------------------------|-------------|
| Total net capacity           | 36.0 MBH    |
| Sensible net capacity        | 26.3 MBH    |
| Seasonal Efficiency (at ARI) | 13.40 SEER2 |
| Efficiency (at ARI)          | 11.00 EER2  |
| Ambient DB temp.             | 95.0 °F     |
| Entering DB temp.            | 80.0 °F     |
| Entering WB temp.            | 67.0 °F     |
| Unit Leaving DB temp.        | 59.7 °F     |
| Unit Leaving WB temp.        | 57.6 °F     |
| Leaving air temp dew point   | 56.30 °F    |
| Power input                  | 2.95 kW     |

## Refrigerant

|                  |            |
|------------------|------------|
| Refrigerant type | R-454B     |
| Sys1             | 3 lb 13 oz |

## Heating Performance

|                               |          |
|-------------------------------|----------|
| Entering DB temp.             | 60 °F    |
| Heating output capacity (Max) | 60.0 MBH |
| Supply air                    | 1200 cfm |
| Heating input capacity (Max)  | 75 MBH   |
| Leaving DB temp.              | 106.3 °F |
| Air temp. rise                | 46.3 °F  |
| AFUE                          | 81.0 %   |

## Supply Air Blower Performance

|                          |          |
|--------------------------|----------|
| Supply air               | 1200 cfm |
| Ext. static pressure     | 0.8 IWG  |
| Blower speed description | High     |
| Duct location            | Bottom   |
| Motor rating             | 0.50 HP  |
| Elevation                | 0 ft     |
| Drive type               | DIRECT   |

## Electrical Data

|                                  |          |          |
|----------------------------------|----------|----------|
| Power supply                     | 208-3-60 | 230-3-60 |
| Unit min circuit ampacity        | 17.7 A   | 17.7 A   |
| Unit max over-current protection | 25 A     | 25 A     |

## Dimensions & Weight

|                                       |           |           |
|---------------------------------------|-----------|-----------|
| Hgt 47 in                             | Len 52 in | Wth 36 in |
| Weight with factory installed options |           | 375 lb    |

Note: Please refer to the tech guide for listed maximum static pressures



## 3 Ton

### Unit Features

- On Site Flexibility - All model sizes use a compact design cabinet in one of two footprints. This provides installer flexibility for placing the proper tonnage unit on curbs or pads with the smallest footprint.
- Convertible Airflow Design - The bottom duct openings are covered when they leave the factory, ready to be used for a side supply/side return application. If a bottom supply/bottom return application is desired, simply remove the two panels from the bottom of the unit and place them in the side supply/side return duct openings.
- Durable Finish - The cabinet is made of G90 galvanized steel with a powder paint coating for appearance and protection. Provides superior corrosion resistance (1000 hour salt spray tested).
- Operating Efficiency - All Gas Heat models are rated at 81% AFUE
- Lower Installation Cost - Installation time and costs are reduced by easy power and control wiring connections. Smaller base dimensions means less space is required on the ground or roof. All units are completely wired, charged with R454B and tested prior to shipment.
- Full Perimeter Base Rails - The easily removable base rails provide a solid foundation for the entire unit and protects the unit during shipment.
- Low Operating Sound Level - The upward air flow carries the normal operating noise up and away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the rippled fins of the condenser coil muffle the normal fan motor and compressor operating sounds
- Easy Service Access - Individual access panels covering the electrical controls makes servicing easy.
- Coil Designs - ACs come with microchannel condenser coils to reduce refrigeration charge amount. Evaporator coils use aluminum tubing with aluminum fins for effective heat transfer.
- Condenser Coil Grille - All models utilize a stamped slotted design which provides superior impact protection against small objects during transit and after installation.

### Warranty

- 10 Year Limited Compressor, Coils, Parts Warranty (with Registration to original homeowner)
- 5 Year Limited Parts Warranty and 20 Year Gas Heat Exchanger Warranty (non-registered) Lifetime Limited Warranty on Gas Heat Exchangers (with Registration to Original Homeowner)



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## Factory Installed Options

### PG3E36L07S31

| Equipment Options         |           | Option(s) Selected                                                    |
|---------------------------|-----------|-----------------------------------------------------------------------|
| Model Family:             | <b>PG</b> | Packaged A/C                                                          |
| Nominal SEER:             | <b>3</b>  | 13.4 SEER2                                                            |
| Refrigerant:              | <b>E</b>  | R454B Refrigerant                                                     |
| Nominal Cooling Capacity: | <b>36</b> | 3 Ton                                                                 |
| Heat Type:                | <b>L</b>  | Gas Heat = LowNOx < 40ng/J                                            |
| Heat Capacity:            | <b>07</b> | 75,000 BTU/Hr Input, Single Stage Stainless Steel<br>Natural Gas Heat |
| Controls:                 | <b>S</b>  | Standard (Conventional) Controls                                      |
| Voltage:                  | <b>3</b>  | 208/230-3-60                                                          |
| Generation:               | <b>1</b>  |                                                                       |

## Field Installed Accessories

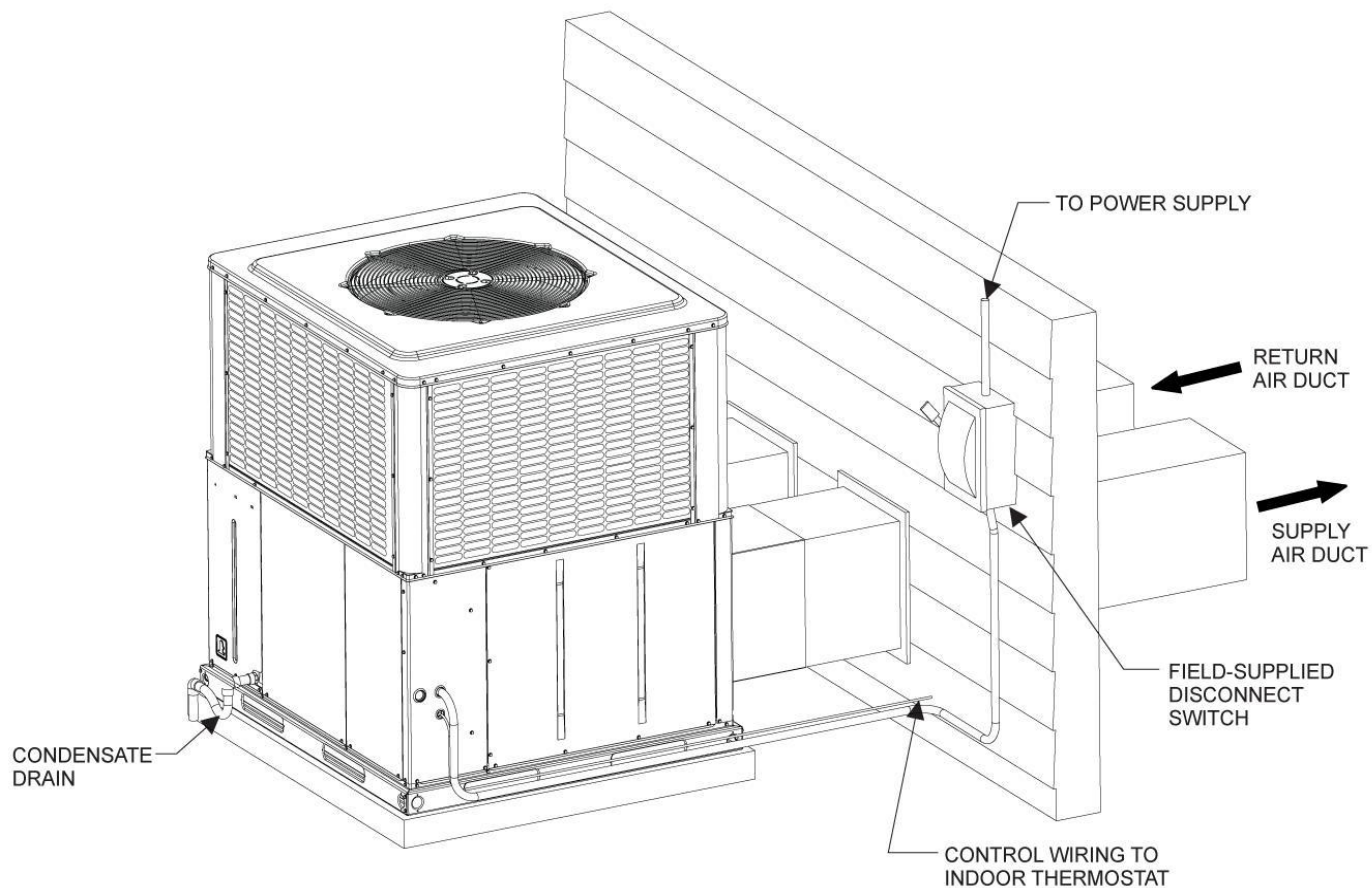
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**Typical Installation On Ground**

## UNIT TYPICAL SLAB ON GROUND INSTALLATION



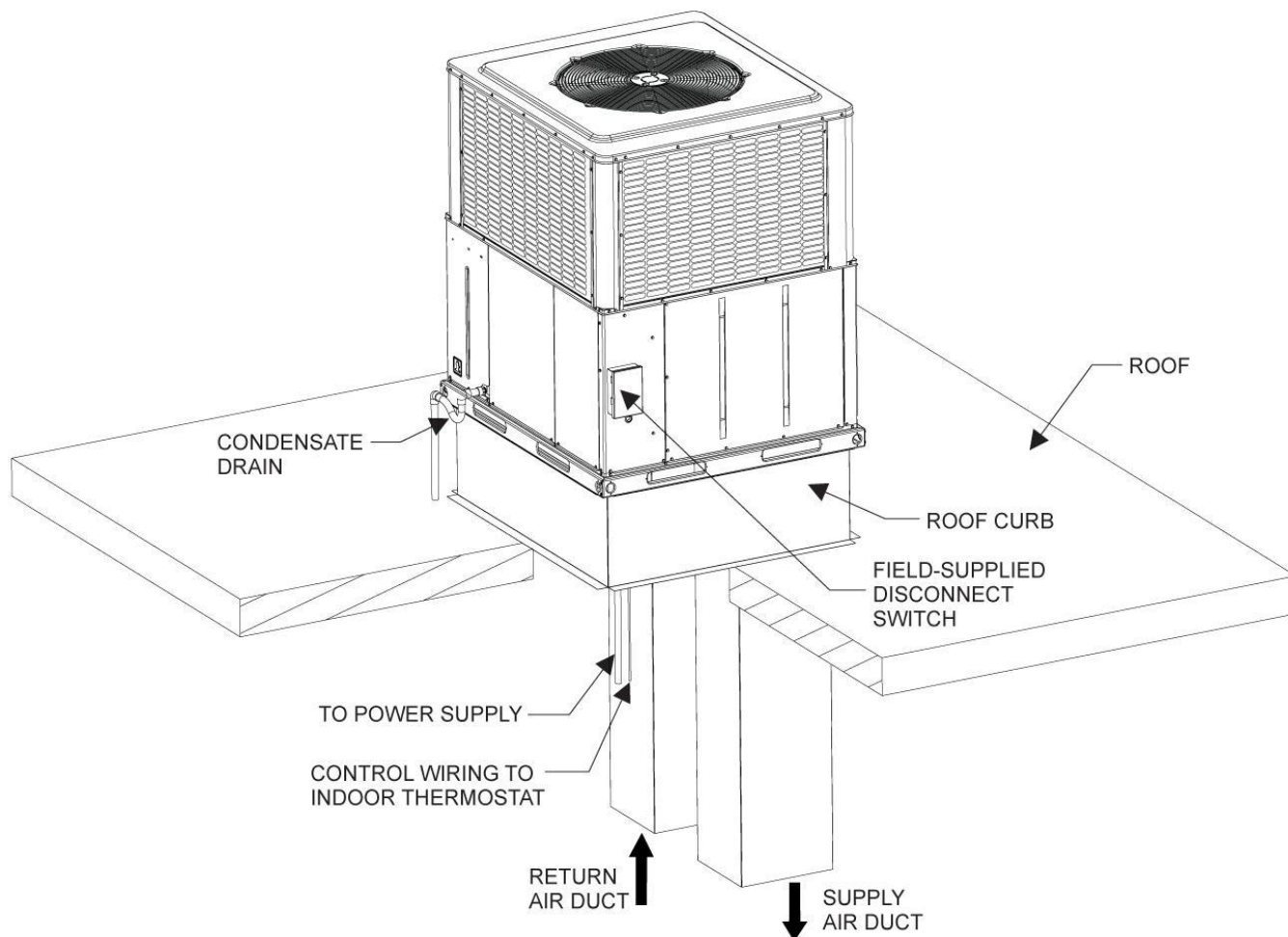
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## Typical Installation Roof Curb

### UNIT TYPICAL ROOF CURB INSTALLATION



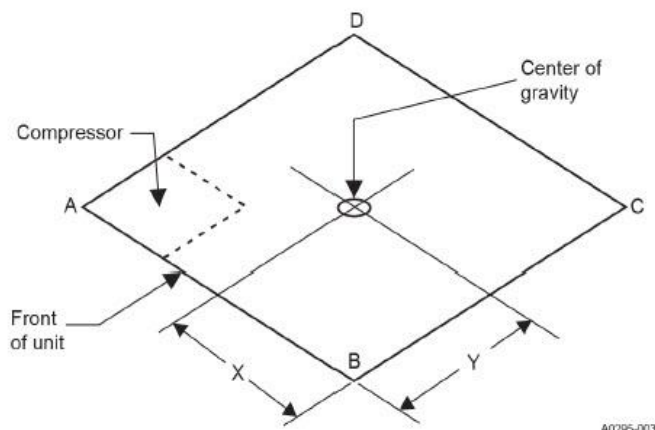
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## PG3E COG & Clearances

**Figure 5: Unit four-point load**



**Table 11: Weights and dimensions**

| Model       | Weight (lb) |           | Center of gravity (in.) |    | Four-point load location (lb) |     |     |     |
|-------------|-------------|-----------|-------------------------|----|-------------------------------|-----|-----|-----|
|             | Shipping    | Operating | X                       | Y  | A                             | B   | C   | D   |
| PG3E24L05S2 | 347         | 342       | 27                      | 15 | 92                            | 106 | 55  | 89  |
| PG3E24L07S2 | 352         | 347       | 27                      | 15 | 92                            | 109 | 57  | 89  |
| PG3E30L05S2 | 349         | 344       | 27                      | 15 | 92                            | 107 | 56  | 89  |
| PG3E30L07S2 | 354         | 349       | 27                      | 15 | 93                            | 110 | 58  | 90  |
| PG3E36L05S2 | 372         | 367       | 27                      | 15 | 93                            | 118 | 55  | 101 |
| PG3E36L07S2 | 375         | 370       | 28                      | 15 | 122                           | 89  | 81  | 78  |
| PG3E36L10S2 | 379         | 374       | 27                      | 15 | 121                           | 92  | 83  | 78  |
| PG3E42L07S2 | 379         | 374       | 27                      | 15 | 108                           | 108 | 66  | 92  |
| PG3E42L10S2 | 382         | 377       | 27                      | 15 | 130                           | 94  | 83  | 70  |
| PG3E48L06S2 | 443         | 438       | 28                      | 19 | 161                           | 100 | 101 | 76  |
| PG3E48L10S2 | 450         | 445       | 28                      | 19 | 162                           | 103 | 103 | 77  |
| PG3E48L12S2 | 454         | 449       | 27                      | 19 | 162                           | 105 | 104 | 77  |
| PG3E60L06S2 | 465         | 460       | 28                      | 19 | 157                           | 117 | 88  | 98  |
| PG3E60L10S2 | 472         | 467       | 28                      | 19 | 158                           | 120 | 90  | 99  |
| PG3E60L12S2 | 476         | 471       | 28                      | 19 | 158                           | 122 | 91  | 99  |

**Table 10: Unit clearances**

| Direction           | Distance (in.) | Direction                | Distance (in.) |
|---------------------|----------------|--------------------------|----------------|
| Top                 | 36             | Power entry (right side) | 36             |
| Side opposite ducts | 36             | Left side                | 24             |
| Duct panel          | 6              | Bottom                   | 1              |

① **Note:**

- Provide a 1 in. clearance between any combustible material and the supply air ductwork.
- Do not allow the products of combustion to accumulate within a confined space and recirculate.
- Install units outdoors. Make sure that overhanging structures or shrubs do not obstruct the outdoor air discharge outlet.
- You can install units on combustible materials made from wood or class A, B, or C roof covering materials if the factory base rails are left in place as shipped.

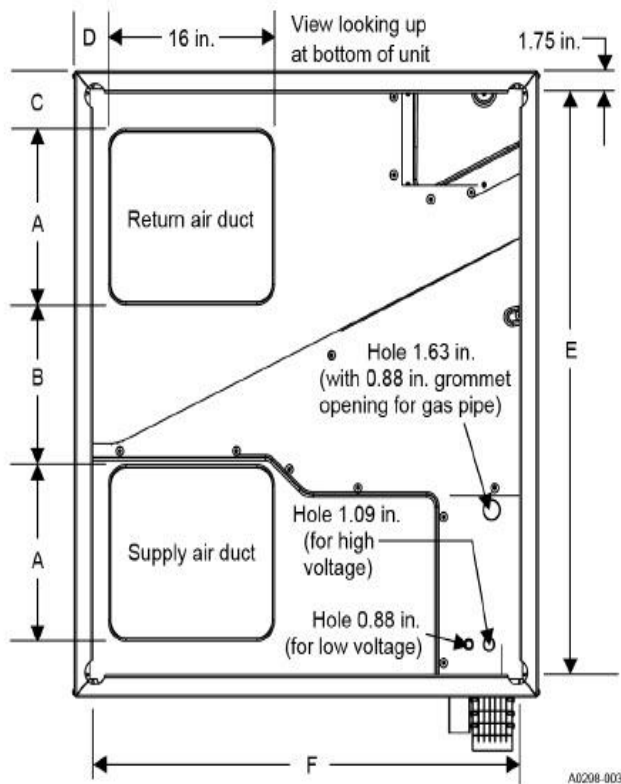
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## Bottom Duct Dimensions

**Figure 7: Bottom duct dimensions (in.)**



**Table 15: Bottom duct dimensions**

| Model                              | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) |
|------------------------------------|---------|---------|---------|---------|---------|---------|
| PG3E24, PG3E30, PG3E36, and PG3E42 | 10      | 21.5    | 5       | 4.5     | 47.5    | 32      |
| PG3E48 and PG3E60                  | 14      | 13.5    | 5       | 3.5     | 47.5    | 42      |

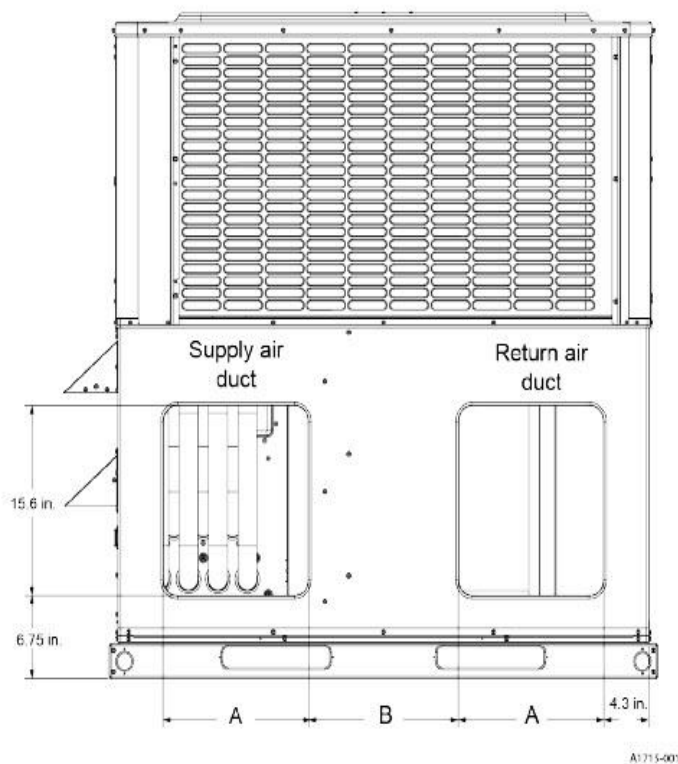
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## Side Duct Dimensions

**Figure 8: Rear duct dimensions (in.)**



**Table 16: Rear duct dimensions**

| Model                                                                      | A (in.) | B (in.) |
|----------------------------------------------------------------------------|---------|---------|
| PG3E24, PG3E30, PG3E36, and PG3E42                                         | 9.6     | 22      |
| PG3E48 and PG3E60                                                          | 13.6    | 14      |
| <b>Note:</b> See Figure 6 for side hole sizes of electrical and gas lines. |         |         |

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## PG3E Dimensions and Sound 3 Phase

### Sound performance data

Table 10: Sound performance data

| Model  | Sound rating (dBA) | Octave band centerline frequency (Hz) |      |      |      |      |      |      |
|--------|--------------------|---------------------------------------|------|------|------|------|------|------|
|        |                    | 125                                   | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| PG3E36 | 75                 | 83.2                                  | 71.2 | 70.1 | 70.8 | 66.0 | 61.0 | 60.6 |
| PG3E42 | 76                 | 79.4                                  | 76.0 | 71.2 | 73.0 | 66.0 | 60.5 | 54.4 |
| PG3E48 | 78                 | 87.5                                  | 79.3 | 72.6 | 72.1 | 66.7 | 62.9 | 57.5 |
| PG3E60 | 76                 | 80.7                                  | 75.3 | 71.9 | 72.0 | 67.1 | 63.9 | 59.6 |

① Note: The sound rating shown is rated in accordance with AHRI Standard 270.

### Unit dimensions and access locations

Figure 2: Unit dimensions and access locations

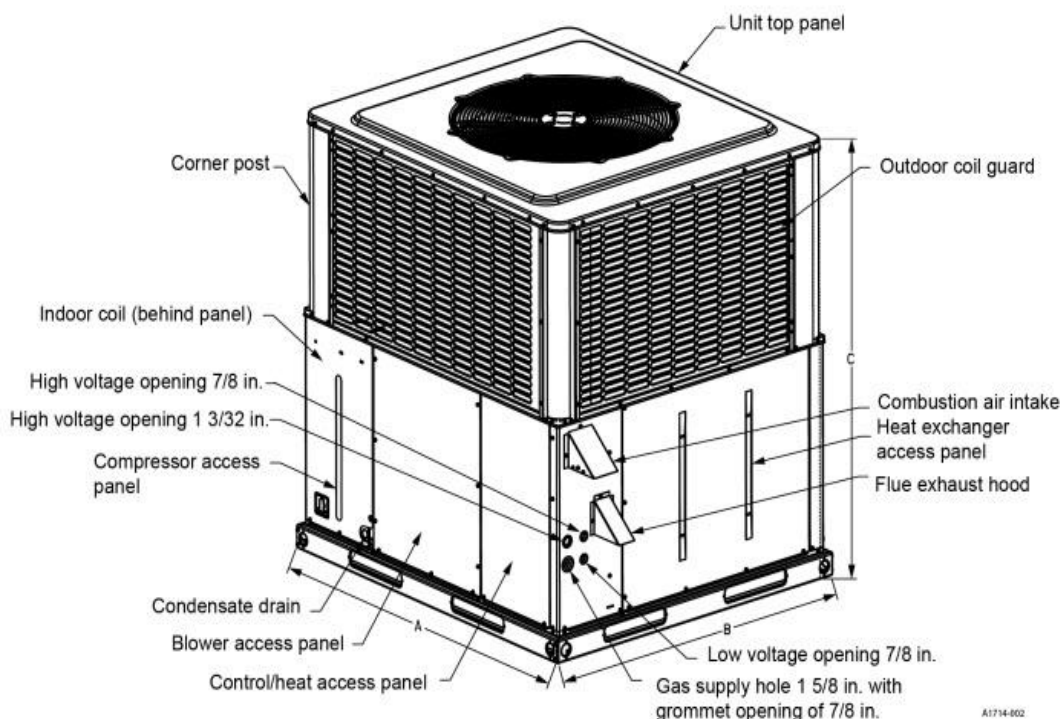


Table 11: Unit dimensions

| Model  | Dimensions (in.) |        |    |
|--------|------------------|--------|----|
|        | A                | B      | C  |
| PG3E36 | 51 1/4           | 35 3/4 | 47 |
| PG3E42 | 51 1/4           | 35 3/4 | 47 |
| PG3E48 | 51 1/4           | 45 3/4 | 47 |
| PG3E60 | 51 1/4           | 45 3/4 | 50 |