

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

Unit Model #: **PG3E24L05S21**

Quantity: **1** Tag #: **2 ton 208/230/1**

System: **PG3E24L05S21**

Cooling Performance

Total net capacity	23.2 MBH
Sensible net capacity	17.1 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.	60.2 °F
Unit Leaving WB temp.	57.9 °F
Leaving air temp dew point	56.50 °F
Power input	1.82 kW

Refrigerant

Refrigerant type	R-454B
Sys1	2 lb 11 oz

Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	40.0 MBH
Supply air	800 cfm
Heating input capacity (Max)	50 MBH
Leaving DB temp.	106.3 °F
Air temp. rise	46.3 °F
AFUE	81.0 %

Supply Air Blower Performance

Supply air	800 cfm
Ext. static pressure	1.0 IWG
Blower speed description	High
Duct location	Bottom
Motor rating	0.33 HP
Elevation	0 ft
Drive type	DIRECT

Electrical Data

Power supply	208-1-60	230-1-60
Unit min circuit ampacity	17.3 A	17.3 A
Unit max over-current protection	25 A	25 A

Dimensions & Weight

Hgt 44 in	Len 52 in	Wth 36 in
Weight with factory installed options		347 lb

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



2 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

PG3E24L05S21

Equipment Options		Option(s) Selected
Model Family:	PG	Packaged A/C
Nominal SEER:	3	13.4 SEER2
Refrigerant:	E	R454B Refrigerant
Nominal Cooling Capacity:	24	2 Ton
Heat Type:	L	Gas Heat = LowNOx < 40ng/J
Heat Capacity:	05	50,000 BTU/Hr Input, Single Stage Stainless Steel Natural Gas Heat
Controls:	S	Standard (Conventional) Controls
Voltage:	2	208/230-1-60
Generation:	1	

Field Installed Accessories

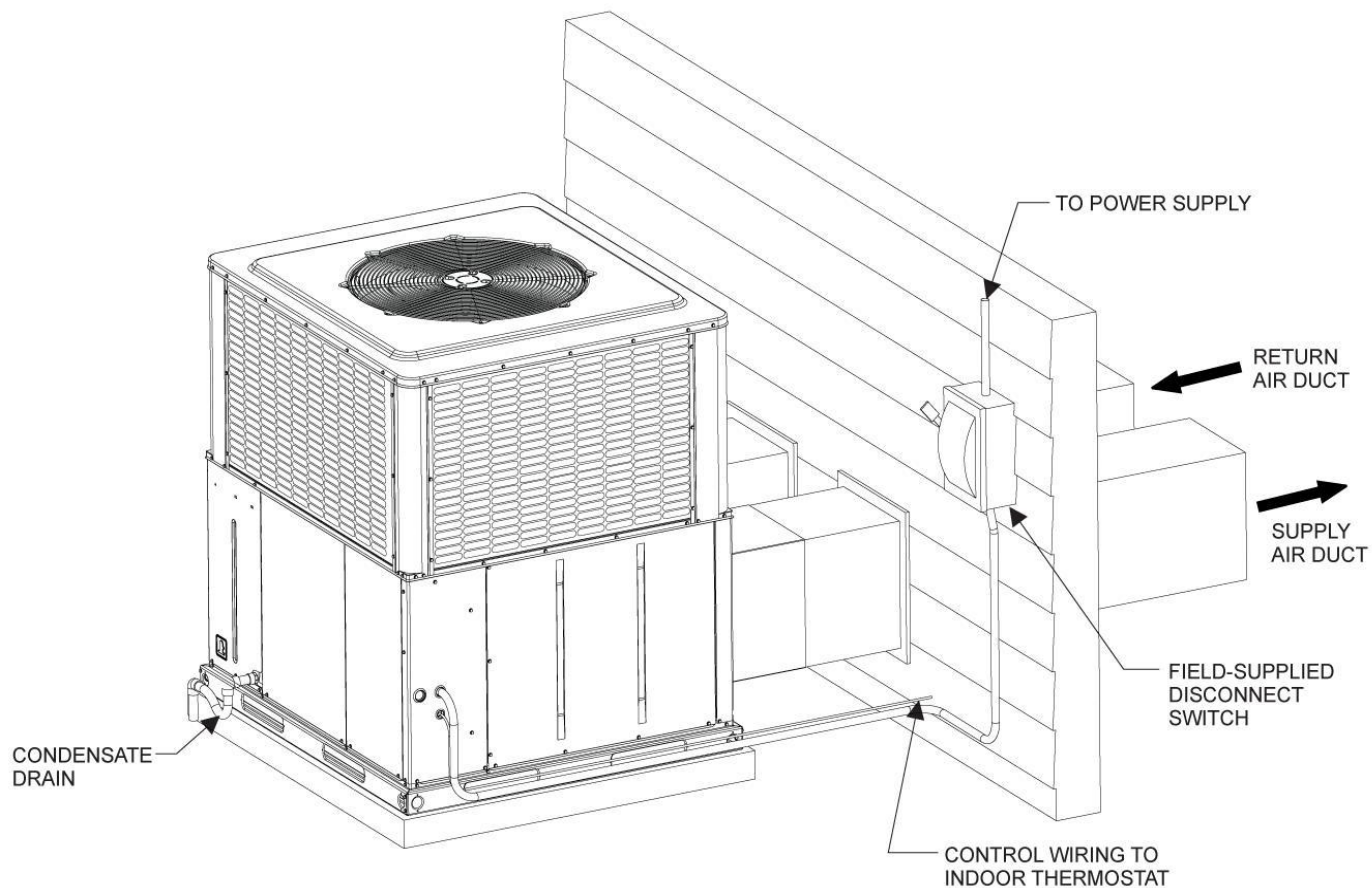
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Typical Installation On Ground

UNIT TYPICAL SLAB ON GROUND INSTALLATION



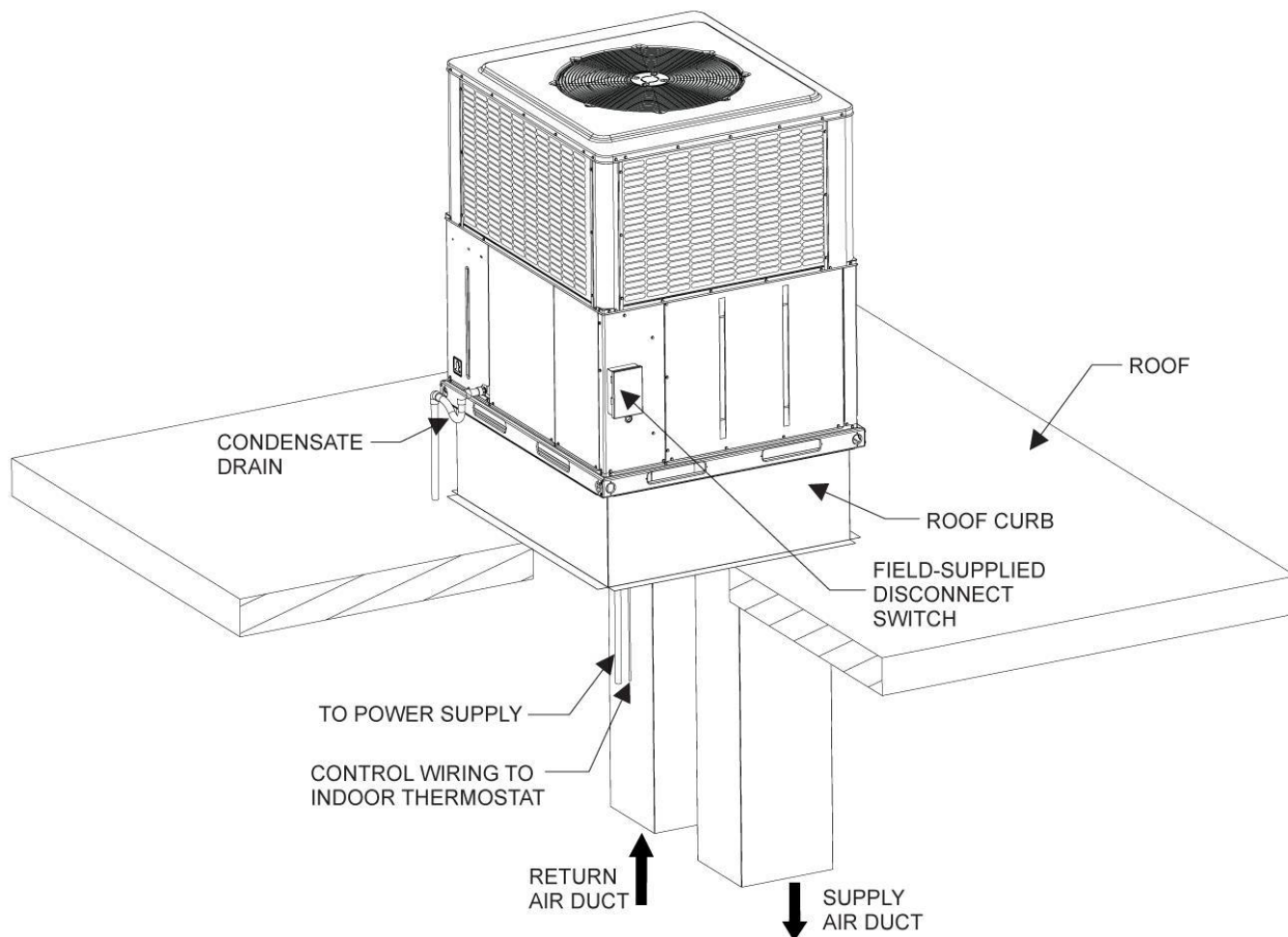
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Typical Installation Roof Curb

UNIT TYPICAL ROOF CURB INSTALLATION



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PG3E COG & Clearances

Figure 5: Unit four-point load

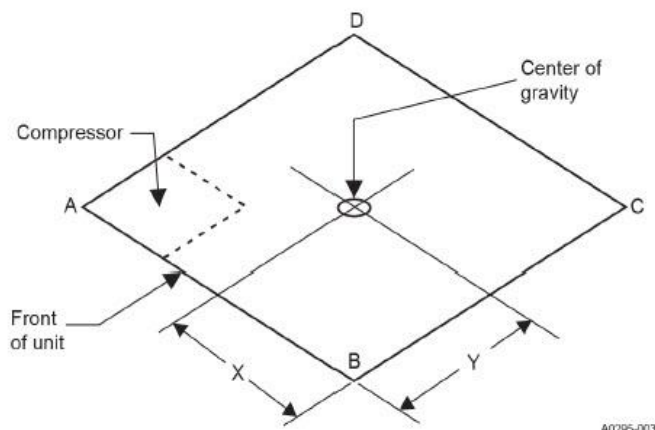


Table 11: Weights and dimensions

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.)

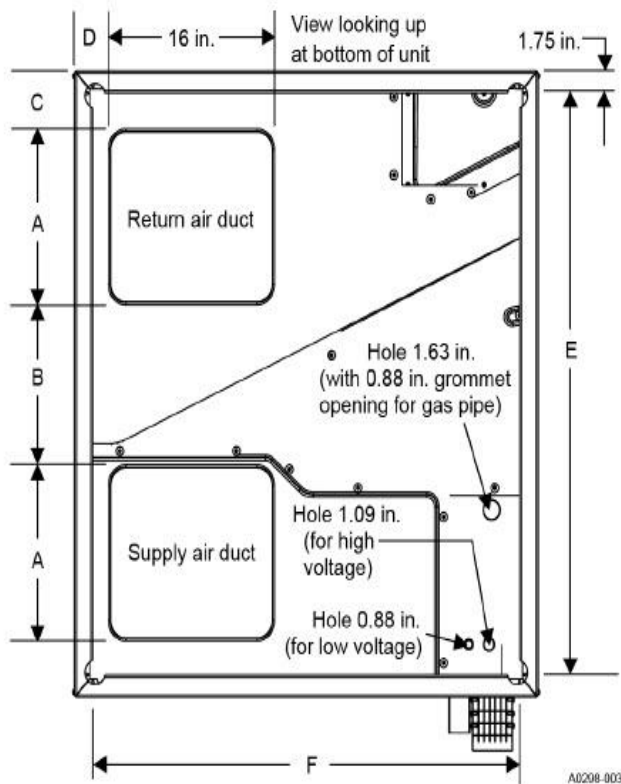


Table 15: Bottom duct dimensions

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.)

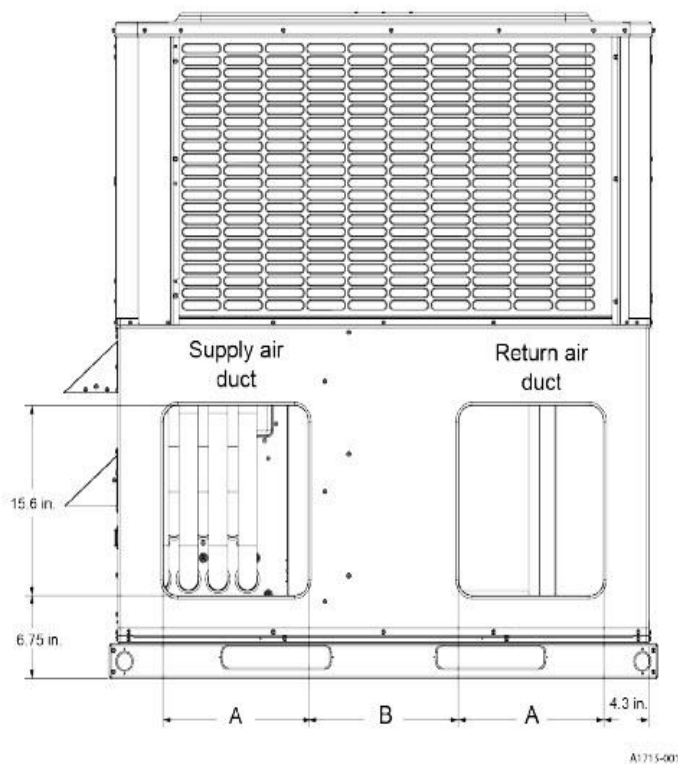


Table 16: Rear duct dimensions

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

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PG3 Dimensions and Sound Single Phase

Sound performance data

Table 12: Sound performance data

Model	Sound rating (dBA)	Octave band centerline frequency (Hz)						
		125	250	500	1000	2000	4000	8000
PG3E24	75	81.5	74.9	70.9	66.4	64.2	66.8	55.1
PG3E30	73	83.5	74.1	69.1	63.9	62.7	61.2	55.2
PG3E36	76	80.1	74.6	72.2	70.0	67.6	66.5	60.1
PG3E42	76	79.4	76.0	71.2	72.7	65.5	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

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

Unit dimensions and access locations

Figure 3: Unit dimensions and access locations

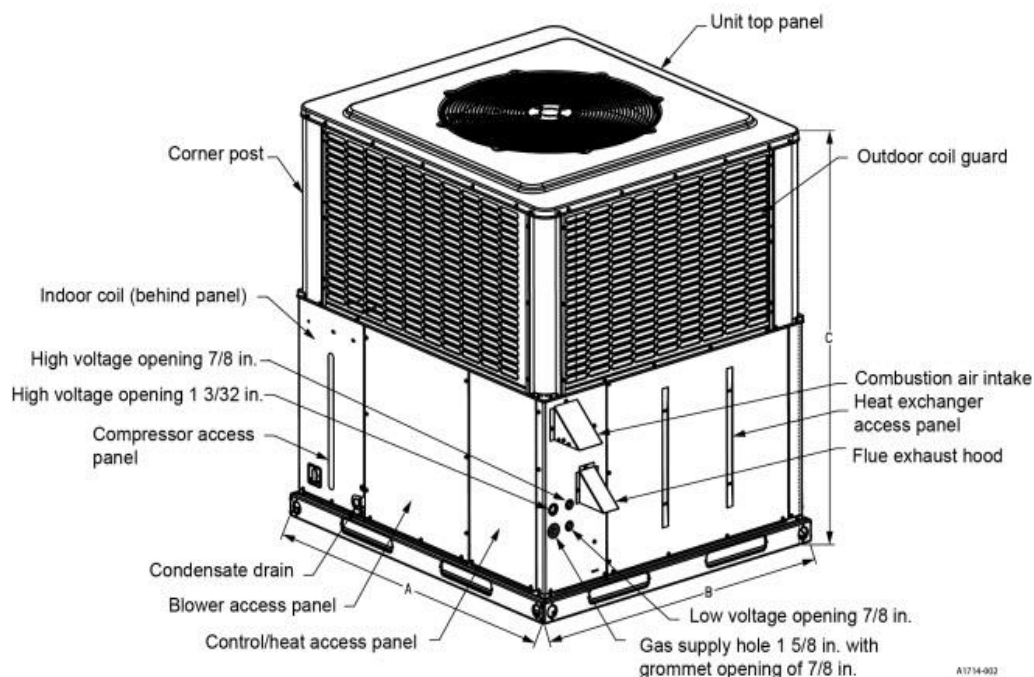


Table 13: Unit dimensions

Model	Dimensions (in.)		
	A	B	C
PG3E24	51 1/4	35 3/4	44
PG3E30	51 1/4	35 3/4	45
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