

Project Name: York RTU-cfm Distributors-R454B

Unit Model #: PH3E48N00S21

Quantity: 1

System: PH3E48N00S21

Cooling Performance

Total net capacity	50.2 MBH
Sensible net capacity	36.4 MBH
Seasonal Efficiency (at ARI)	13.40 SEER2
Efficiency (at ARI)	12.70 EER2
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Unit Leaving DB temp.	58.9 °F
Unit Leaving WB temp.	57.1 °F
Leaving air temp dew point	55.9 °F
Power input	3.96 kW
Sound power	72 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	10 lb 14 oz

Heat Pump Performance

Heating output capacity	49.2 MBH
Supply air	1500 cfm
Ambient DB temp.	47 °F
Entering DB temp.	60 °F
Leaving DB temp.	90.4 °F
Air temp. rise	30.4 °F
Power Input	3.41 kW
Cop	4.23 COP
HSPF2	6.7

Supply Air Blower Performance

Supply air	1600 cfm
Ext. static pressure	0.8 IWG
Blower speed description	#4 MED-HI
Duct location	Bottom
Motor rating	0.75 HP
Elevation	0 ft
Drive type	DIRECT

Electrical Data

Power supply	208-1-60	230-1-60
Unit min circuit ampacity	36.5 A	36.5 A
Unit max over-current protection	50 A	50 A

Dimensions & Weight

Hgt 50 in	Len 52 in	Wth 46 in
Weight with factory installed options		482 lb

Matchup Information

AHRI Reference Number	217662812
AHRI Rated Capacity	MBH
AHRI Rated Efficiency	13.4 SEER2

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



Note: Electrical MCA/MOCP shown is without heat kit.

For MCA/MOCP with electric heat kits, please see last page of submittal.

Note: Single Phase units do not include a filter frame.

Please add to order if required.

Note: Single Phase units will require a transformer if an economizer is used.



4 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.
- (RDS) A2L Sensor Factory Installed
- 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).
- 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.
- Electric Heat - All electric heat models use field installed 6HK electric heat kits, which are available in 230v/1/60, 230v/3/60 and 460v/3/60 versions.
- 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.
- Condenser Coil Grille - All models utilize a stamped slotted design which provides superior impact protection against small objects during transit and after installation.
- Coil Design - Heat Pumps use grooved copper tubes and enhanced aluminum fin construction. Evaporator coils use aluminum tubing with aluminum fins for effective heat transfer.

Warranty

- 10 Year Limited Compressor, Coils, Parts Warranty (with Registration to original homeowner)
- 5 Year Limited Compressor, Coils, Parts Warranty (non-registered)
- 10 Year Limited Warranty on Electric Heater Elements



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Factory Installed Options

PH3E48N00S21

Equipment Options		Option(s) Selected
Model Family :	PH	Packaged Heat Pump
Nominal SEER :	3	13.4 SEER2
Refrigerant :	E	R454B Refrigerant
Nominal Cooling Capacity :	48	4 Ton
Heat Type :	N	Electric Heat Field Installed
Heat Capacity :	00	
Controls :	S	Standard (Conventional) Controls
Voltage :	2	208/230-1-60
Generation :	1	

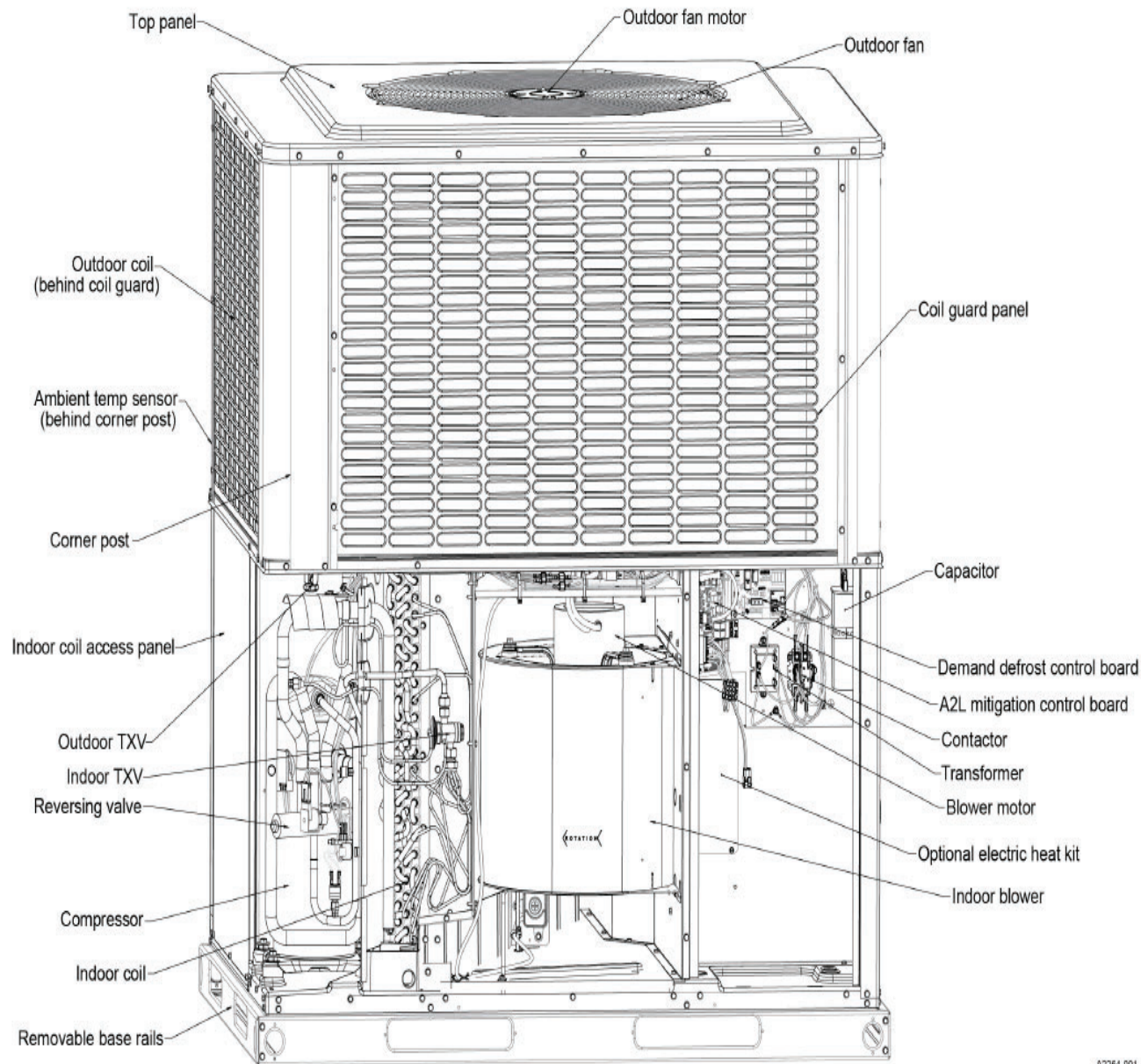
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PH3 Component Locations

Figure 1: Unit components



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PH3 Dimensions

Figure 2: Unit dimensions and access locations

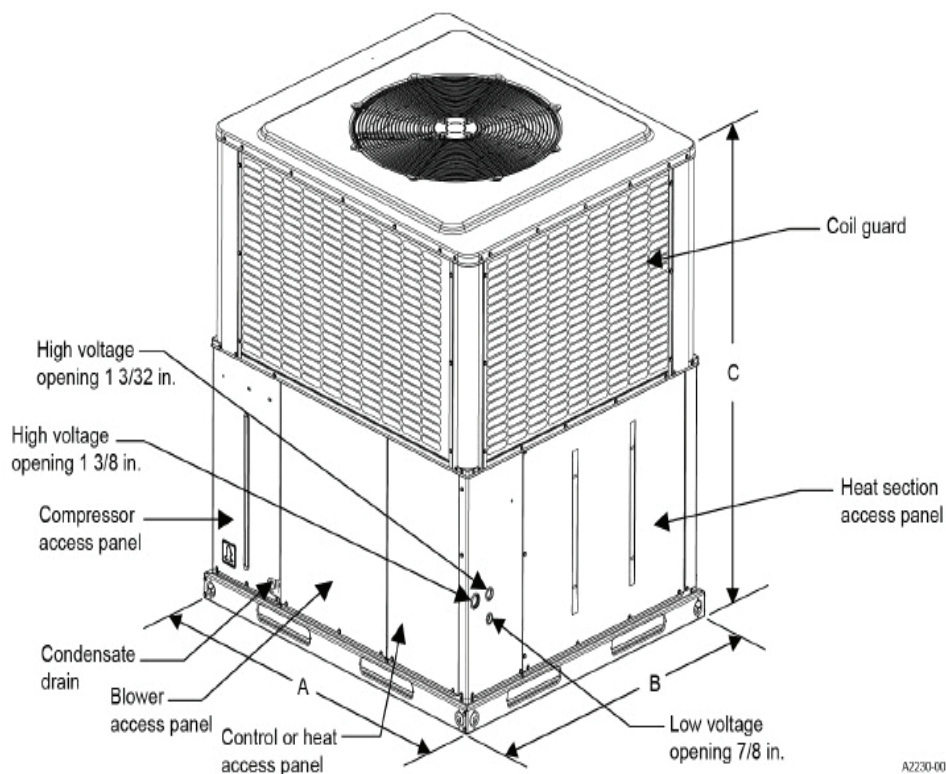


Table 16: Unit dimensions

Model	Dimensions (in.)		
	A	B	C
PH3E24N00S2	51 1/4	35 3/4	44
PH3E36N00S2	51 1/4	45 3/4	47
PH3E48N00S2	51 1/4	45 3/4	50
PH3E60N00S2	51 1/4	45 3/4	55

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PH3 Side Duct Dimensions

Figure 6: Rear duct dimensions (in.)

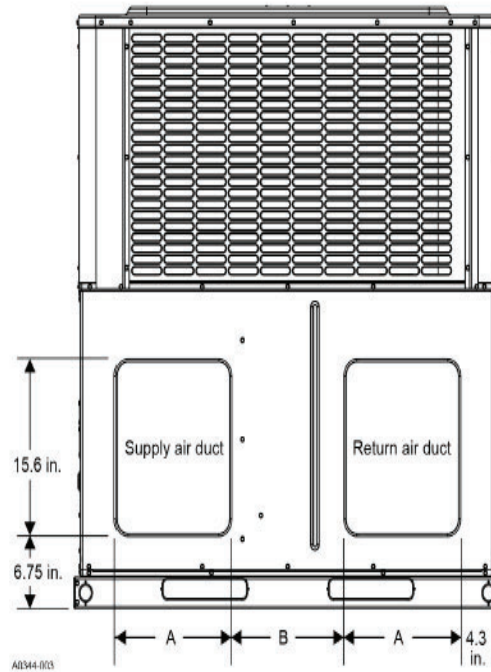


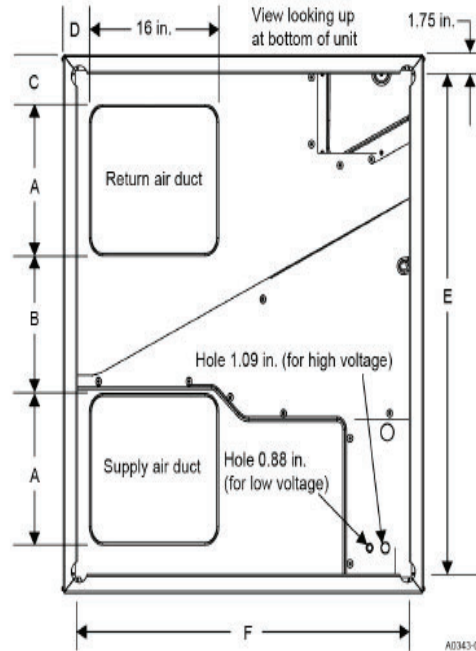
Table 29: Rear duct dimensions

Model	A (in.)	B (in.)
PH3E24N00S2	9.6	22
PH3E36N00S2, PH3E48N00S2, and PH3E60N00S2	13.6	14
Note: See Figure 2 for side hole sizes of electrical lines.		

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PH3 Bottom Duct Dimensions
Figure 5: Bottom duct dimensions (in.)

Table 28: Bottom duct dimensions

Model	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)
PH3E24N00S2	10	21.5	5	4.5	47.5	32
PH3E36N00S2, PH3E48N00S2, and PH3E60N00S2	14	13.5	5	3.5	47.5	42

Electrical data for 208/230-1-60 single source power

Table 19: Electrical data for 208/230-1-60 single source power

Model	Compressor			Outdoor fan motor	Blower motor	Electric heat option						MCA (A)		MOP (A)	
						Electric heat kit model	Electric heat kit (kW)		Stages	Electric heat kit (A)					
	RLA	LRA	MCC				FLA	FLA		208 V	230 V	208 V	230 V	208 V	230 V
PH3E48	22.4	126.0	35.0	1.7	6.8	none	—	—	—	—	—	36.5	36.5	50	50
						6HK16500506	3.6	4.4	1	17.3	19.2	58.2	60.5	70	70
						6HK16500806	5.8	7.1	1	27.7	30.7	71.2	74.8	80	80
						6HK16501006	7.2	8.8	1	34.7	38.3	79.8	84.4	90	90
						6HK16501506	10.8	13.2	2	52.0	57.5	101.5	108.4	110	110
						6HK16502006	14.4	17.6	2	69.3	76.7	123.2	132.3	125	150

Single Point wiring kit required with single source power

Table 23: Single-point wiring kit

Model	Electric heat kit (kW)	Breaker size (A)	Single-point wiring kit part number
PH3E48N00S2	Up to 20	50	S1-2SPWK004

For Multi-Source Power, confirm if site voltage is 208/1 or 230/1 and use correct data below:

Electrical data for 208-1-60 multi source power

Table 20: Electrical data for 208-1-60 multi source power

Model	Compressor			Outdoor fan motor FLA	Blower motor FLA	Electric heat option (208 V)				Multi source (208 V)							
	RLA	LRA	MCC			Electric heat kit model	Electric heat kit (kW)	Stages	Electric heat kit (A)	Circuit 1 (compressor)		Circuit 2 (heat)		Circuit 3 (heat)		Circuit 4 (heat)	
										MCA (A)	MOP (A)	MCA (A)	MOP (A)	MCA (A)	MOP (A)	MCA (A)	MOP (A)
PH3E48	22.4	126.0	35.0	1.7	6.8	none	—	—	—	36.5	50	—	—	—	—	—	—
						6HK(0,1)6500506	3.6	1	17.3	36.5	50	21.7	25	—	—	—	—
						6HK(0,1)6500806	5.8	1	27.7	36.5	50	34.7	35	—	—	—	—
						6HK(0,1)6501006	7.2	1	34.7	36.5	50	43.3	45	—	—	—	—
						6HK16501506	10.8	2	52.0	36.5	50	21.7	25	43.3	45	—	—
						6HK16502006	14.4	2	69.3	36.5	50	43.3	45	43.3	45	—	—
						6HK26501506	10.8	2	52.0	36.5	50	65.0	70	—	—	—	—
						6HK26502006	14.4	2	69.3	36.5	50	86.7	90	—	—	—	—
						6HK26502006	14.4	2	69.3	36.5	50	86.7	90	—	—	—	—

Electrical data for 230-1-60 multi source power

Table 21: Electrical data for 230-1-60 multi source power

Model	Compressor			Outdoor fan motor	Blower motor	Electric heat option (230 V)				Multi source (230 V)							
	RLA	LRA	MCC	FLA	FLA	Electric heat kit model	Electric heat kit (kW)	Stages	Electric heat kit (A)	Circuit 1 (compressor)		Circuit 2 (heat)		Circuit 3 (heat)		Circuit 4 (heat)	
										MCA (A)	MOP (A)	MCA (A)	MOP (A)	MCA (A)	MOP (A)	MCA (A)	MOP (A)
PH3E48	22.4	126.0	35.0	1.7	6.8	none	—	1	—	36.5	50	—	—	—	—	—	—
						6HK(0,1)6500506	4.4	1	19.2	36.5	50	24.0	25	—	—	—	—
						6HK(0,1)6500806	7.1	1	30.7	36.5	50	38.3	40	—	—	—	—
						6HK(0,1)6501006	8.8	1	38.3	36.5	50	47.9	50	—	—	—	—
						6HK16501506	13.2	2	57.5	36.5	50	24.0	25	47.9	50	—	—
						6HK16502006	17.6	2	76.7	36.5	50	47.9	50	47.9	50	—	—
						6HK26501506	13.2	2	57.5	36.5	50	71.9	80	—	—	—	—
						6HK26502006	17.6	2	76.7	36.5	50	95.8	100	—	—	—	—