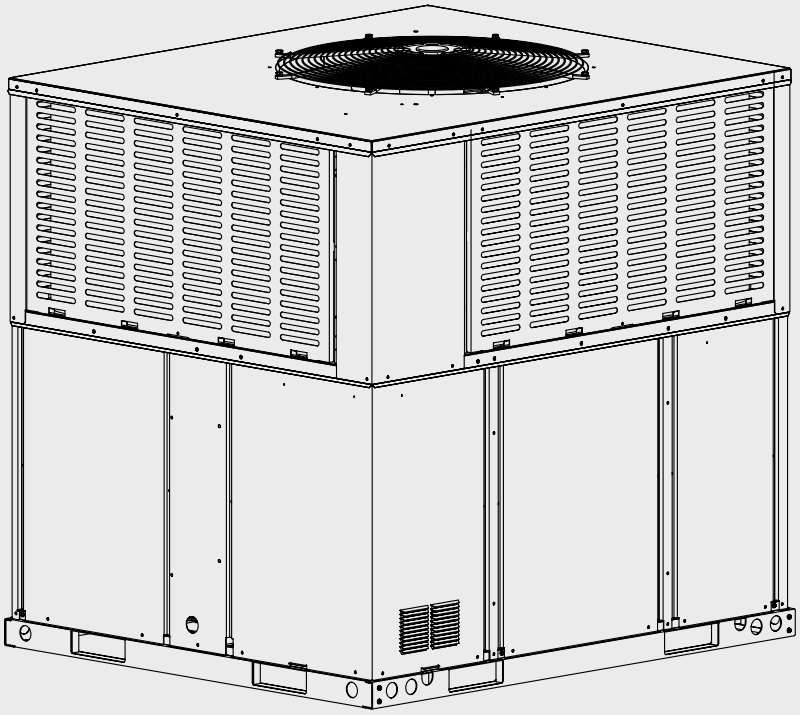
Product Specifications

Packaged Heat Pump

PH9 Series Packaged Unit

3-5 Ton Capacity | R-454B



BTC 910908201 A / 05.2026

ENERGY STAR

AHRI CERTIFIED®
www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

C ETL LISTED US
Intertek

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1 Product Features

1.1 Features and Benefits

- Superior efficiency
  - PH9 3T rated at 18 SEER2, 11 EER2, 8.1 HSPF2
  - PH9 5T rated at 19 SEER2, 11.2 EER2, 9 HSPF2
- Fully modulating Inverter Drive precisely matches the heating/cooling load
- Inverter Compressor
- Provides up to 4-stage indoor fan control
- 2-way design allows for horizontal and downflow installations, air return/ supply are convertible
- Easy to install – compatible with most standard 24 VAC heat pump thermostats

1.2 Standard Features

- Product designed to use R-454B refrigerant
- Intelligent Oil Return Technology
- Inverter Driven Rotary Compressor
- Crankcase Heater Standard
- Compressor Sound Blanket
- Multiple System Protection:
  - High pressure switch and low pressure transducer
  - Compressor liquid return protection
  - Compressor high or low compression ratio protection
  - Compressor high temperature protection
  - High / low voltage protection and over current protection
  - IPM and electronic control board high temperature protection
- Outdoor coil is capable of withstanding 1000-hour salt spray test according to ASTM B117 standard
- AHRI certified; ETL listed

1.3 Cabinet Features

- Baked-on powder paint finish
- Wire fan discharge grille
- Steel louver coil guard

1.4 Limited Warranty

For Products installed in a one or two family residential dwelling, BHC warrants that all compressors and internal components incorporated into the Product at the time of shipment by BHC shall remain free from defects in workmanship and materials for ten (10) years* from the Commencement Date. If the Warranty Registration process has been completed and BHC determines that the Product or any part of the Product has a defect in workmanship or materials, BHC shall pay labor charges associated with the repair or replacement of the part in accordance with the Warranty Labor Allowance Schedule** for the period of ninety (90) days from the Commencement Date.

** **For additional warranty information and details of the Warranty Labor Allowance Schedule, please contact CG-UPGConsumerRelations@bosch-hcgroup.com.*

2 Nomenclature

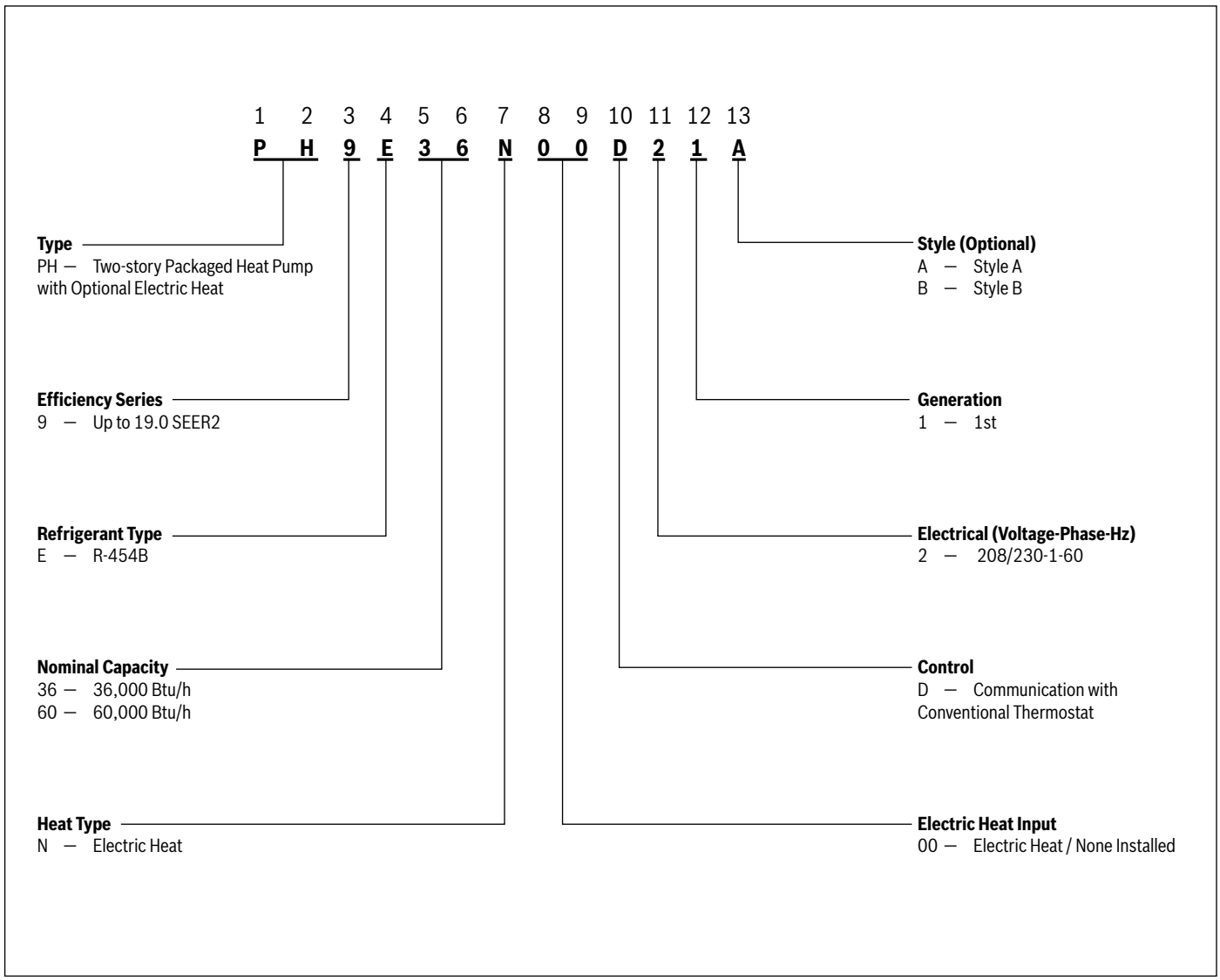


Figure 1

3 Product Specifications

	3 Ton	5 Ton
Capacity		
Nominal Cooling - Btu/h	34200	57000
Nominal Heating - Btu/h	36000	57000
Sound Power - dB(A)		
Maximum @ 100% Load	73.8	73.8
Mininum @ Minimum Load	59.9	62.7
Compressor		
Rated Load Amps - A	19.0	27.0
Outdoor Fan Motor		
Horsepower - HP	1/3	1/3
Full Load Amps - A	1.8	2.0
Indoor Fan Motor		
Horsepower - HP	1/2	3/4
Full Load Amps - A	3.9	5.3
Refrigeration System		
Refrigerant Charge (R-454B) - lb-oz	6-3	10-9
Expansion Device	Electronic Expansion Valve (EEV)	
Operating Range		
Cooling - °F	23 - 125	
Heating - °F	-4 - 86	
Electrical Data		
Voltage-Phase-Hz	208/230-1-60	
Minimum Circuit Ampacity[1] - A	30.0	42.0
Maximum Overcurrent Protection[2] - A	45	60
Maximum Fuse Size - A	35	50
Minimum / Maximum Voltage - V	187/253	
Air Filter		
Air Filter Size - in	16 x 10	16 x 14
Weight[3]		
Net Weight (without packaging) - lb	403 [182]	551 [250]
Gross Weight (with packaging) - lb	422 [191]	568 [258]
Dimensions		
Unit L x W x H - in	50-11/16 x 35-1/16 x 46-13/16	51-9/16 x 44-13/16 x 51-7/16
Outdoor Coil		
Net Face Area - sq ft	13.9	20.2
Tube Diameter - in [mm]	9/32 [7]	
Number of Rows	2+3	3+3
Fins per Inch	17	
Indoor Coil		
Net Face Area - sq ft	3.96	6.13
Tube Diameter - in [mm]	9/32 [7]	
Number of Rows	4	
Fins per Inch	17	

Table 1

[1] Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

[2] Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

There are two condenser coils, one has 3 rows, and the other has 2 or 3 rows (depending on size).

Always check the rating plate for electrical data on the unit being installed.

4 AHRI 210/240 Performance Data

Model Size	Heat Pump Model	Cooling Capacity - Btu/h			Heating Capacity			CFM	Cold Climate?
		Total	EER2[1]	SEER2[2]	Hi	HSPF2[3]	Low4		
3 Ton	PH9E36N00D21A	34200	11.0	18.0	36000	8.1	25000	1200	
5 Ton	PH9E60N00D21A	57000	11.2	19.0	57000	9.0	43000	1700	❄

Table 2

1 Energy Efficiency Ratio 2; Certified per AHRI 210/240

2 Seasonal Energy Efficiency Ratio 2; Certified per AHRI 210/240

3 HSPF2 = Heating Seasonal Performance Factor 2 (Region IV); Certified per AHRI 210/240

4 Jumper cut or dip switch off

*Items in **bold** boxes meet the requirements for ENERGY STAR*

❄ *Denotes combinations that meet ENERGY STAR v6.1 Cold Climate*

5 Extended Performance Data

5.1 PH9E36 for Cooling

PH9E36 For Cooling																		
Indoor Airflow - CFM	Outdoor DB - °F	IWB - °F	59				63				67				71			
		IDB - °F	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
950	65	TC	34.24	34.53	35.29	35.58	36.24	36.53	36.91	37.20	37.48	37.67	38.06	39.39	\	38.72	39.96	40.25
		S/T	0.99	1.00	1.00	1.00	0.63	0.86	1.00	1.00	0.39	0.58	0.76	0.94	\	0.39	0.54	0.69
		kW	1.93	1.94	1.96	1.96	1.96	1.98	2.00	2.01	2.01	2.04	2.09	2.11	\	2.08	2.10	2.12
	75	TC	32.81	33.19	33.48	33.86	34.24	34.53	34.91	35.38	35.77	36.15	36.62	37.29	\	37.77	38.25	38.63
		S/T	1.00	1.00	1.00	1.00	0.62	0.85	1.00	1.00	0.39	0.58	0.76	0.94	\	0.39	0.54	0.69
		kW	2.15	2.18	2.19	2.20	2.20	2.22	2.23	2.25	2.26	2.30	2.35	2.39	\	2.38	2.41	2.43
	85	TC	31.28	31.76	32.14	32.33	32.62	33.00	33.29	33.76	34.24	34.62	34.91	35.19	\	36.15	36.43	36.82
		S/T	1.00	1.00	1.00	1.00	0.63	0.86	1.00	1.00	0.39	0.58	0.76	0.95	\	0.39	0.54	0.70
		kW	2.52	2.55	2.58	2.60	2.55	2.57	2.61	2.62	2.57	2.59	2.61	2.64	\	2.61	2.64	2.67
	95	TC	27.94	28.33	29.57	30.14	30.61	30.90	31.28	31.57	32.52	32.81	33.10	33.38	\	34.62	34.91	35.19
		S/T	1.00	1.00	0.99	1.00	0.63	0.87	1.00	1.00	0.39	0.58	0.74	1.00	\	0.39	0.55	0.71
		kW	2.77	2.81	2.85	1.00	2.80	2.84	2.87	2.89	2.80	2.84	2.88	2.92	\	1.00	2.89	2.92
	105	TC	28.04	28.42	28.99	29.28	28.99	29.28	29.57	29.95	30.90	31.28	31.19	31.76	\	31.66	32.24	32.81
		S/T	0.99	1.00	0.99	1.00	0.63	0.87	1.00	1.00	0.39	0.59	0.78	1.00	\	0.39	0.57	0.74
		kW	2.97	3.00	3.03	3.03	3.03	3.07	3.10	3.13	3.14	3.16	3.15	3.22	\	3.48	3.50	3.52
	115	TC	21.65	21.84	22.32	22.60	22.32	22.60	22.79	23.08	24.61	24.70	24.99	25.18	\	25.37	25.46	25.56
		S/T	1.00	1.00	1.00	1.00	0.64	0.88	1.00	1.00	0.40	0.62	0.86	1.00	\	0.40	0.62	0.84
		kW	2.59	2.61	2.65	2.65	2.65	2.67	2.70	2.73	2.77	2.78	2.80	2.82	\	2.83	2.84	2.85
1200	65	TC	35.9	36.2	37	37.3	38	38.3	38.7	39	39.3	39.5	39.9	41.3	\	40.6	41.9	42.2
		S/T	0.99	1.00	1.00	1.00	0.63	0.86	1.00	1.00	0.39	0.58	0.76	0.94	\	0.39	0.54	0.69
		kW	2.08	2.09	2.12	2.12	2.12	2.14	2.16	2.17	2.17	2.2	2.26	2.28	\	2.24	2.27	2.29
	75	TC	34.4	34.8	35.1	35.5	35.9	36.2	36.6	37.1	37.5	37.9	38.4	39.1	\	39.6	40.1	40.5
		S/T	1.00	1.00	1.00	1.00	0.62	0.85	1.00	1.00	0.39	0.58	0.76	0.94	\	0.39	0.54	0.69
		kW	2.32	2.35	2.36	2.37	2.37	2.39	2.41	2.43	2.44	2.48	2.54	2.58	\	2.57	2.6	2.62
	85	TC	32.8	33.3	33.7	33.9	34.2	34.6	34.9	35.4	35.9	36.3	36.6	36.9	\	37.9	38.2	38.6
		S/T	1.00	1.00	1.00	1.00	0.63	0.86	1.00	1.00	0.39	0.58	0.76	0.95	\	0.39	0.54	0.70
		kW	2.72	2.75	2.78	2.8	2.75	2.77	2.81	2.83	2.77	2.79	2.82	2.85	\	2.81	2.85	2.88
	95	TC	29.3	29.7	31	31.6	32.1	32.4	32.8	33.1	34.1	34.4	34.7	35	\	36.3	36.6	36.9
		S/T	1.00	1.00	0.99	1.00	0.63	0.87	1.00	1.00	0.39	0.58	0.76	1.00	\	0.39	0.55	0.71
		kW	2.99	3.03	3.07	3.1	3.02	3.06	3.09	3.12	3.02	3.06	3.1	3.15	\	3.1	3.12	3.15
	105	TC	29.4	29.8	30.4	30.7	30.4	30.7	31	31.4	32.4	32.8	32.7	33.3	\	33.2	33.8	34.4
		S/T	0.99	1.00	0.99	1.00	0.63	0.87	1.00	1.00	0.39	0.59	0.78	1.00	\	0.39	0.57	0.74
		kW	3.2	3.23	3.27	3.27	3.27	3.31	3.34	3.37	3.38	3.41	3.4	3.47	\	3.75	3.77	3.79
	115	TC	22.7	22.9	23.4	23.7	23.4	23.7	23.9	24.2	25.8	25.9	26.2	26.4	\	26.6	26.7	26.8
		S/T	1.00	1.00	1.00	1.00	0.64	0.88	1.00	1.00	0.40	0.62	0.86	1.00	\	0.40	0.62	0.84
		kW	2.79	2.82	2.86	2.86	2.86	2.88	2.91	2.94	2.99	3	3.02	3.04	\	3.05	3.06	3.07
1350	65	TC	36.41	36.72	37.53	37.83	38.54	38.85	39.25	39.56	39.86	40.06	40.47	41.89	\	41.18	42.50	42.80
		S/T	0.99	1.00	1.00	1.00	0.63	0.86	1.00	1.00	0.39	0.58	0.76	0.94	\	0.39	0.54	0.69
		kW	2.11	2.12	2.15	2.15	2.15	2.17	2.19	2.20	2.20	2.23	2.29	2.31	\	2.27	2.30	2.32
	75	TC	34.89	35.30	35.60	36.01	36.41	36.72	37.12	37.63	38.04	38.44	38.95	39.66	\	40.17	40.67	41.08
		S/T	1.00	1.00	1.00	1.00	0.62	0.85	1.00	1.00	0.39	0.58	0.76	0.94	\	0.39	0.54	0.69
		kW	2.35	2.38	2.39	2.40	2.40	2.42	2.44	2.46	2.47	2.52	2.58	2.62	\	2.61	2.64	2.66
	85	TC	33.27	33.77	34.18	34.38	34.69	35.09	35.40	35.91	36.41	36.82	37.12	37.43	\	38.44	38.75	39.15
		S/T	1.00	1.00	1.00	1.00	0.63	0.86	1.00	1.00	0.39	0.58	0.76	0.95	\	0.39	0.54	0.70
		kW	2.76	2.79	2.82	2.84	2.79	2.81	2.85	2.87	2.81	2.83	2.86	2.89	\	2.85	2.89	2.92
	95	TC	29.72	30.12	31.44	32.05	32.56	32.86	33.27	33.57	34.59	34.89	35.20	35.50	\	36.82	37.12	37.43
		S/T	1.00	1.00	0.99	1.00	0.63	0.87	1.00	1.00	0.39	0.58	0.80	1.00	\	0.39	0.55	0.71
		kW	3.03	3.07	3.11	1.00	3.06	3.10	3.13	3.17	3.06	3.10	3.15	3.20	\	1.00	3.17	3.20
	105	TC	29.82	30.22	30.83	31.14	30.83	31.14	31.44	31.85	32.86	33.27	33.17	33.77	\	33.67	34.28	34.89
		S/T	0.99	1.00	0.99	1.00	0.63	0.87	1.00	1.00	0.39	0.59	0.78	1.00	\	0.39	0.57	0.74
		kW	3.25	3.28	3.32	3.32	3.32	3.36	3.39	3.42	3.43	3.46	3.45	3.52	\	3.81	3.83	3.85
	115	TC	23.02	23.22	23.73	24.04	23.73	24.04	24.24	24.54	26.17	26.27	26.57	26.78	\	26.98	27.08	27.18
		S/T	1.00	1.00	1.00	1.00	0.64	0.88	1.00	1.00	0.40	0.62	0.86	1.00	\	0.40	0.62	0.84
		kW	2.83	2.86	2.90	2.90	2.90	2.92	2.95	2.98	3.03	3.04	3.06	3.08	\	3.09	3.10	3.11

Table 3

TC: refers to total capacity in Btu/h S/T: refers to the ratio of sensible heat and total capacity kW: refers to total input power

5.2 PH9E36 for Heating

PH9E36 For Heating																	
Indoor Airflow - CFM	ID - °F	OD - °F	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2
950	60	TC	46.9	45.9	43.9	40.8	39.3	37.8	34.8	31.5	29.1	27.9	25	22.1	20.9	19.6	18.6
		kW	3.31	3.28	3.21	3.2	3.11	3.06	2.94	2.94	2.85	2.8	2.78	2.66	2.58	2.52	2.49
	70	TC	45.7	43.3	40.9	38.6	36.3	34.2	31.9	29.8	27.8	25.8	23.8	22	20.1	18.4	16.6
		kW	3.22	3.12	3.12	3.02	2.94	2.92	2.81	2.81	2.71	2.61	2.61	2.51	2.51	2.41	2.41
	75	TC	31	30.6	30.4	30.3	30.8	30.3	29.1	28.6	28.3	27.1	25.5	21.4	19.3	17.9	16.4
		kW	2.75	2.74	2.74	2.73	2.61	2.63	2.64	2.51	2.44	2.39	2.38	2.29	2.25	2.19	2.15
	80	TC	26.8	26.9	26.8	26.8	26.8	26.4	23.1	22.4	22.2	21.1	20.6	18.7	18.9	17.7	16.4
		kW	2.49	2.47	2.44	2.43	2.39	2.31	2.3	2.21	2.17	2.16	2.14	2.09	2.03	1.96	1.93
1200	60	TC	49.4	48.4	46.3	43	41.4	39.9	36.7	33.2	30.7	29.4	26.4	23.3	22.1	20.7	19.6
		kW	3.29	3.26	3.19	3.18	3.09	3.04	2.92	2.9	2.84	2.79	2.77	2.65	2.57	2.51	2.48
	70	TC	48.22	45.66	43.15	40.7	38.3	36.02	33.69	31.47	29.31	27.21	25.16	23.18	21.26	19.39	17.57
		kW	3.2	3.1	3.1	3	2.9	2.93	2.8	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.4
	75	TC	32.7	32.3	32.1	32	32.5	32	30.7	30.2	29.9	28.6	26.9	22.6	20.4	18.9	17.3
		kW	2.74	2.73	2.73	2.72	2.6	2.62	2.63	2.5	2.43	2.38	2.37	2.28	2.24	2.18	2.14
	80	TC	28.3	28.4	28.3	28.3	28.3	27.83	24.4	23.6	23.4	22.3	21.7	19.7	20	18.7	17.3
		kW	2.48	2.46	2.43	2.42	2.38	2.3	2.29	2.2	2.16	2.15	2.13	2.08	2.02	1.95	1.92
1350	60	TC	50.1	49.1	47	43.6	42	40.5	37.2	33.7	31.1	29.8	26.8	23.6	22.4	21	19.9
		kW	3.27	3.24	3.17	3.16	3.07	3.02	2.9	2.91	2.83	2.78	2.76	2.64	2.56	2.5	2.47
	70	TC	48.9	46.3	43.8	41.3	38.9	36.6	34.2	31.9	29.7	27.6	25.5	23.5	21.6	19.7	17.8
		kW	3.18	3.08	3.08	2.98	2.91	2.89	2.79	2.79	2.69	2.59	2.59	2.49	2.49	2.39	2.39
	75	TC	33.2	32.8	32.6	32.5	33	32.5	31.1	30.6	30.3	29	27.3	22.9	20.7	19.2	17.5
		kW	2.73	2.72	2.72	2.71	2.59	2.61	2.62	2.49	2.42	2.37	2.36	2.27	2.23	2.17	2.13
	80	TC	28.7	28.8	28.7	28.7	28.7	28.2	24.7	23.9	23.7	22.6	22	20	20.3	19	17.5
		kW	2.47	2.45	2.42	2.41	2.37	2.29	2.28	2.19	2.15	2.14	2.12	2.07	2.01	1.94	1.91

Table 4

TC: refers to total capacity in Btu/h kW: refers to total input power

5.3 PH9E60 for Cooling

PH9E60 For Cooling																		
Indoor Airflow - CFM	Outdoor DB - °F	IWB - °F	59				63				67				71			
		IDB - °F	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1500	65	TC	54.9	57.3	57.8	58.5	60.1	60.9	62.2	61.9	63	64.4	64.6	65.9	\	67	67.3	67.7
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	3.13	3.22	3.29	3.33	3.15	3.24	3.11	3.37	3.17	3.26	3.38	3.45	\	3.29	3.43	3.48
	75	TC	50.9	51.1	51.3	51.5	58.3	58.6	59	59.1	65.4	65.7	61.9	66.2	\	64.1	64.4	64.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	3.64	3.64	3.64	3.64	3.82	3.82	3.82	3.82	4.4	4.4	4.4	4.4	\	4.36	4.39	4.43
	85	TC	47	47.2	47.5	47.3	55.2	55.1	54.8	55.1	57.1	58.6	59.1	59.9	\	60.2	60.5	60.9
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	3.95	3.98	3.99	4.01	4.14	4.16	4.21	4.22	4.14	4.17	4.24	4.27	\	4.24	4.28	4.33
	95	TC	47.8	49.5	50.3	50.9	51.9	52.6	53.2	53.8	54.9	55.6	56.2	56.8	\	58.8	59.3	60
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.70	0.89	\	0.37	0.52	0.67
		kW	4.46	4.54	4.61	4.66	4.48	4.56	4.65	4.69	4.5	4.58	4.68	4.76	\	4.62	4.69	4.75
	105	TC	46.8	47.6	48.4	49	49	49.6	50.3	50.9	52	52.7	53.2	53.9	\	52.8	53	53.7
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.38	0.53	0.68
		kW	4.93	5.02	5.08	5.13	4.95	5.03	5.12	5.17	4.97	5.05	5.15	5.23	\	5.12	5.2	5.28
	115	TC	42.6	43.3	43.9	44.7	44.5	45.7	47.2	48	47.6	48.3	49.8	50.5	\	48.1	49.4	50.9
		S/T	0.85	1.00	1.00	1.00	0.60	0.82	1.00	1.00	0.42	0.62	0.81	0.99	\	0.39	0.58	0.81
		kW	5.37	5.4	5.4	5.46	5.45	5.5	5.56	5.62	5.52	5.58	5.66	5.74	\	5.69	5.74	5.81
1700	65	TC	56.6	59.1	59.6	60.3	62	62.8	64.1	63.8	65	66.4	66.6	67.9	\	69.1	69.4	69.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	3.32	3.41	3.48	3.53	3.34	3.43	3.29	3.57	3.36	3.45	3.58	3.65	\	3.48	3.63	3.69
	75	TC	52.5	52.7	52.9	53.1	60.1	60.4	60.8	60.9	67.4	67.7	63.8	68.3	\	66.1	66.4	66.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	3.85	3.85	3.85	3.85	4.05	4.05	4.05	4.05	4.66	4.66	4.66	4.66	\	4.62	4.65	4.69
	85	TC	48.5	48.7	49	48.8	56.9	56.8	56.5	56.8	58.9	60.4	60.9	61.8	\	62.1	62.4	62.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	4.18	4.21	4.23	4.25	4.38	4.41	4.46	4.47	4.38	4.42	4.49	4.52	\	4.49	4.53	4.58
	95	TC	49.3	51	51.9	52.5	53.5	54.2	54.9	55.5	56.6	57.3	57.9	58.6	\	60.6	61.1	61.9
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	4.72	4.81	4.88	4.93	4.74	4.83	4.92	4.97	4.76	4.85	4.95	5.04	\	4.89	4.97	5.03
	105	TC	48.3	49.1	49.9	50.5	50.5	51.2	51.9	52.5	53.6	54.3	54.9	55.6	\	54.4	54.7	55.4
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.38	0.53	0.68
		kW	5.22	5.31	5.38	5.43	5.24	5.33	5.42	5.47	5.26	5.35	5.45	5.54	\	5.42	5.51	5.59
	115	TC	43.9	44.7	45.3	46.1	45.9	47.1	48.7	49.5	49.1	49.8	51.4	52.1	\	49.6	50.9	52.5
		S/T	0.85	1.00	1.00	1.00	0.60	0.82	1.00	1.00	0.42	0.62	0.81	0.99	\	0.39	0.58	0.81
		kW	5.68	5.72	5.72	5.78	5.77	5.82	5.89	5.95	5.84	5.91	5.99	6.08	\	6.02	6.08	6.15
2000	65	TC	58.5	61.1	61.6	62.3	64.1	64.9	66.3	66	67.2	68.6	68.9	70.2	\	71.4	71.7	72.2
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	3.33	3.42	3.49	3.54	3.35	3.44	3.3	3.58	3.37	3.46	3.59	3.66	\	3.49	3.64	3.7
	75	TC	54.3	54.5	54.7	54.9	62.1	62.4	62.9	63	69.7	70	66	70.6	\	68.3	68.6	69.1
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	3.86	3.86	3.86	3.86	4.06	4.06	4.06	4.06	4.67	4.67	4.67	4.67	\	4.63	4.66	4.7
	85	TC	50.1	50.3	50.6	50.4	58.8	58.7	58.4	58.7	60.9	62.4	63	63.9	\	64.2	64.5	64.9
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.37	0.52	0.67
		kW	4.19	4.22	4.24	4.26	4.39	4.42	4.47	4.48	4.39	4.43	4.5	4.53	\	4.5	4.54	4.59
	95	TC	51	52.7	53.6	54.3	55.3	56	56.7	57.4	58.5	59.2	59.9	60.6	\	62.6	63.2	64
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.70	0.89	\	0.37	0.52	0.67
		kW	4.73	4.82	4.89	4.94	4.75	4.84	4.93	4.99	4.77	4.86	4.97	5.06	\	4.9	4.99	5.05
	105	TC	49.9	50.7	51.6	52.2	52.2	52.9	53.6	54.3	55.4	56.1	56.7	57.5	\	56.2	56.5	57.3
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	\	0.38	0.53	0.68
		kW	5.24	5.33	5.4	5.45	5.26	5.35	5.44	5.49	5.28	5.37	5.47	5.56	\	5.44	5.53	5.61
	115	TC	45.4	46.2	46.8	47.6	47.4	48.7	50.3	51.2	50.7	51.5	53.1	53.8	\	51.3	52.6	54.3
		S/T	0.85	1.00	1.00	1.00	0.60	0.82	1.00	1.00	0.42	0.62	0.81	0.99	\	0.39	0.58	0.81
		kW	5.7	5.74	5.74	5.8	5.79	5.84	5.91	5.97	5.86	5.93	6.01	6.1	\	6.04	6.1	6.17

Table 5

TC: refers to total capacity in Btu/h S/T: refers to the ratio of sensible heat and total capacity kW: refers to total input power

5.4 PH9E60 for Heating

PH9E60 For Heating																	
Indoor Airflow - CFM	ID - °F	OD - °F	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2
1500	60	TC	74.7	73.2	70	65	62.6	60.4	55.5	50.2	46.4	44.5	39.9	35.2	33.4	31.3	29.6
		kW	5.33	5.28	5.17	5.15	5.01	4.93	4.73	4.75	4.6	4.52	4.49	4.29	4.16	4.07	4.02
	70	TC	72.9	69.1	65.3	61.6	57.9	54.5	51	47.6	44.3	41.1	38	35	32.1	29.3	26.5
		kW	5.19	5.02	5.02	4.86	4.75	4.7	4.54	4.54	4.37	4.21	4.21	4.05	4.05	3.89	3.89
	75	TC	49.5	48.8	48.5	48.4	49.1	48.4	46.4	45.7	45.2	43.2	40.7	34.2	30.8	28.6	26.1
		kW	4.44	4.42	4.42	4.41	4.21	4.24	4.26	4.05	3.94	3.86	3.84	3.69	3.63	3.53	3.47
	80	TC	42.8	42.9	42.8	42.8	42.8	42.1	36.9	35.7	35.4	33.7	32.8	29.8	30.2	28.3	26.1
		kW	4.02	3.99	3.94	3.92	3.86	3.73	3.71	3.56	3.5	3.48	3.45	3.37	3.27	3.16	3.11
1700	60	TC	78.7	77.1	73.8	68.5	66	63.6	58.5	52.9	48.9	46.8	42	37.1	35.2	33	31.2
		kW	5.35	5.3	5.19	5.17	5.02	4.94	4.75	4.76	4.62	4.54	4.5	4.31	4.18	4.08	4.03
	70	TC	76.8	72.7	68.7	64.8	61	57.4	53.7	50.1	46.7	43.3	40.1	36.9	33.8	30.9	28
		kW	5.2	5.04	5.04	4.88	4.76	4.72	4.55	4.55	4.39	4.23	4.23	4.06	4.06	3.9	3.9
	75	TC	52.1	51.4	51.1	51	51.8	51	48.9	48.1	47.6	45.5	42.8	36	32.5	30.1	27.5
		kW	4.45	4.44	4.44	4.42	4.23	4.26	4.28	4.06	3.95	3.87	3.85	3.71	3.64	3.54	3.48
	80	TC	45.1	45.2	45.1	45.1	45.1	44.3	38.9	37.6	37.3	35.5	34.5	31.4	31.8	29.8	27.5
		kW	4.03	4	3.95	3.93	3.87	3.74	3.72	3.58	3.51	3.49	3.46	3.38	3.28	3.17	3.12
2000	60	TC	80	78.4	75	69.6	67	64.6	59.4	53.7	49.7	47.6	42.7	37.7	35.8	33.5	31.7
		kW	5.28	5.23	5.12	5.1	4.96	4.88	4.68	4.7	4.55	4.47	4.44	4.25	4.12	4.02	3.98
	70	TC	78.1	73.9	69.9	65.9	62	58.3	54.5	50.9	47.4	44	40.7	37.5	34.4	31.4	28.4
		kW	5.13	4.97	4.97	4.81	4.7	4.65	4.49	4.49	4.33	4.17	4.17	4.01	4.01	3.85	3.85
	75	TC	52.9	52.3	52	51.8	52.6	51.8	49.7	48.9	48.4	46.3	43.5	36.6	33	30.6	28
		kW	4.39	4.38	4.38	4.36	4.17	4.2	4.22	4.01	3.9	3.82	3.8	3.66	3.59	3.49	3.43
	80	TC	45.8	46	45.8	45.8	45.8	45	39.5	38.2	37.9	36.1	35.1	31.9	32.4	30.2	28
		kW	3.98	3.94	3.9	3.88	3.82	3.69	3.67	3.53	3.46	3.45	3.41	3.33	3.24	3.13	3.08

Table 6

TC: refers to total capacity in Btu/h kW: refers to total input power

6 Airflow Performance

Airflow performance data is based on cooling performance with a coil and no filter in place. Check the performance table for appropriate unit size selection.

External static pressure should stay within the minimum and maximum limits shown in the table below in order to ensure proper operation of both cooling, heating, and electric heating operation.

Model Size	Motor Speed		SCFM										
			External Static Pressure - in WC										
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
3 Ton	Tap (1)	SCFM	863	782	720	644	549	452	381	334	306	261	231
		Current - A	1.41	1.44	1.46	1.48	1.51	1.55	1.57	1.59	1.62	1.65	1.67
		Power - W	100	110	110	120	120	130	130	134	140	144	150
	Tap (2)	SCFM	1144	1071	1003	955	897	836	763	686	608	546	493
		Current - A	1.93	1.96	1.99	2.02	2.06	2.1	2.13	2.17	2.21	2.26	2.3
		Power - W	190	200	205	210	220	220	230	230	240	249	250
	Tap (3)	SCFM	1291	1238	1159	1109	1068	1020	970	910	828	758	689
		Current - A	2.38	2.43	2.47	2.5	2.55	2.59	2.63	2.66	2.71	2.75	2.8
		Power - W	267	270	280	288	290	300	301	310	320	321	330
	Tap (4)	SCFM	1467	1419	1360	1293	1248	1212	1169	1124	1075	1022	964
		Current - A	3.1	3.15	3.19	3.24	3.28	3.33	3.38	3.42	3.46	3.5	3.58
		Power - W	374	380	390	399	400	410	420	420	430	436	450
	Tap (5)	SCFM	1537	1492	1440	1377	1327	1284	1230	1174	1115	1055	971
		Current - A	3.44	3.5	3.54	3.59	3.63	3.65	3.64	3.63	3.63	3.62	3.64
		Power - W	430	438	440	450	453	460	460	452	450	450	450
5 Ton	Tap (1)	SCFM	1324	1256	1182	1108	1042	971	894	806	743	688	614
		Current - A	1.76	1.81	1.88	1.94	1.99	2.05	2.12	2.19	2.24	2.28	2.34
		Power - W	170	180	190	200	210	220	230	240	250	259	265
	Tap (2)	SCFM	1426	1365	1298	1231	1161	1097	1027	953	876	813	761
		Current - A	1.99	2.05	2.11	2.17	2.23	2.3	2.38	2.46	2.53	2.58	2.63
		Power - W	210	220	230	240	250	260	270	280	290	300	310
	Tap (3)	SCFM	1604	1550	1494	1431	1372	1312	1253	1190	1126	1068	999
		Current - A	2.52	2.58	2.66	2.73	2.8	2.87	2.95	3.03	3.11	3.2	3.27
		Power - W	290	300	310	320	330	341	355	370	380	391	404
	Tap (4)	SCFM	1934	1892	1884	1797	1743	1690	1643	1591	1541	1485	1431
		Current - A	3.38	3.93	4.01	4.09	4.18	4.27	4.34	4.43	4.52	4.61	4.7
		Power - W	490	500	511	529	540	551	562	580	590	602	619
	Tap (5)	SCFM	2033	1985	1939	1892	1838	1788	1740	1687	1640	1593	1530
		Current - A	4.35	4.42	4.48	4.56	4.65	4.73	4.81	4.9	4.99	5.08	5.11
		Power - W	567	575	586	599	610	620	634	650	660	676	680

Table 7

Bold outlined areas represent airflow outside of the required 300-450 cfm ton range.

NOTES:

1. This table is only used to select the highest blower speed.
2. The rated airflow of systems without electric heater kits requires between 300 and 450 cubic feet of air per minute (CFM). The rated airflow of systems with electric heater kits requires between 350 and 450 cubic feet of air per minute (CFM).
3. The air distribution system has the greatest effect on airflow. Therefore, the contractor should use only industry-recognized procedures.
4. Duct design and construction should be carefully done. System performance can be lowered dramatically through poor design or workmanship.
5. Air supplier ducts should be located along the perimeter of the conditioned space and properly sized. Improper location or insufficient air flow may cause drafts or noise in the ductwork.
6. Installers should balance the air distribution system to ensure proper quiet airflow to all rooms in the home. An air velocity meter or airflow hood can be used to balance and verify branch and system airflow (CFM).

Minimum fan speed setting with electric heaters is shown in the table below.

Circuit with Heat Kit				Fan Speed Setting				
Model Size	Heat Kit Model	Power - kW	Stages	1	2	3	4	5
3 Ton	S1-EHK-05J	3.8/5	1	×	√	√	√	√
	S1-EHK-08J	5.6/7.5	1	×	√	√	√	√
	S1-EHK-10J	7.5/10	1	×	√	√	√	√
	S1-EHK-15J	11.3/15	2	×	×	√	√	√
5 Ton	S1-EHK-05J	3.8/5	1	×	×	√	√	√
	S1-EHK-08J	5.6/7.5	1	×	×	√	√	√
	S1-EHK-10J	7.5/10	1	×	×	√	√	√
	S1-EHK-15J	11.3/15	2	×	×	×	√	√
	S1-EHK-20J	15/20	2	×	×	×	√	√

Table 8 Airflow Setting with Electric Heat Kit

7 Sound Data

Model Size	Mode	Sound Power Level dB(A)	Full Octave Linear Sound Power Level dB - Center Frequency - Hz								
			100	125	250	500	1000	2000	4000	8000	10000
3 Ton	Cooling	59.9 (Low)	49.8	46.9	43.8	52.7	47.0	42.9	42.0	36.0	38.7
		73.0 (Rated)	55.5	53.6	57.7	63.9	62.1	59.5	54.6	46.9	46.1
		73.2 (High)	55.4	54.0	57.5	63.9	62.2	59.6	55.9	48.0	46.7
	Heating	60.4 (Low)	49.8	47.7	44.5	53.4	47.5	43.4	41.5	33.4	37.3
		73.4 (Rated)	56.0	54.8	57.6	64.9	63.1	60.0	53.2	44.3	43.1
		73.8 (High)	56.3	55.2	59.0	65.0	63.2	60.4	54.8	45.8	44.2
5 Ton	Cooling	62.7 (Low)	51.3	55.7	49.2	51.6	51.2	45.6	42.7	40.1	38.3
		73.1 (Rated)	57.6	60.0	58.3	60.7	61.6	58.9	55.4	50.9	45.3
		73.8 (High)	57.5	58.0	58.9	60.1	62.4	59.0	56.0	51.3	47.0
	Heating	63.1 (Low)	51.4	51.3	51.1	53.6	51.9	47.3	42.7	37.7	36.1
		73.7 (Rated)	59.4	65.2	59.5	60.2	61.3	58.1	53.6	48.6	44.1
		73.3 (High)	59.4	59.4	60.5	60.3	61.3	58.5	54.2	48.9	45.1

Table 9 PH9 Sound Power Level

8 Electrical Data

Model Size	Voltage - Phase - Hz	Compressors (each)	OD Fan Motors (each)	Supply Blower Motor	Unit Circuit	
		Rated Load Amps (RLA) - A	Full Load Amps (FLA) - A	Full Load Amps (FLA) - A	Minimum Circuit Amps[1] (MCA) - A	Maximum Fuse[2]/ Breaker[3] Size - A
3 Ton	208/230-1-60	19A	1.8A	3.9A	30.0	35
5 Ton	208/230-1-60	27A	2.0A	5.3A	42.0	50

Table 10 Electrical Data Without Electric Heat

Model Size	Heat Kit Model	Power Input @208/240V kW	Stages	Full Load Amps (FLA) @ 208/240V	Dual Point		Single Point	
					Minimum Circuit Amps[1] (MCA) @ 208/240V - A	Maximum Fuse[2]/ Breaker[3] Size* @ 208/240V - A	Minimum Circuit Amps[1] (MCA) @ 208/240V - A	Maximum Fuse[2]/ Breaker[3] Size** @ 208/240V - A
3 Ton	S1-EHK-05J	3.8/5	1	18.1/20.8	23/26	25/30	52/56	60/60
	S1-EHK-08J	5.6/7.5	1	27.1/31.3	34/40	35/40	64/69	70/70
	S1-EHK-10J	7.5/10.0	1	36.1/41.7	46/53	50/60	75/82	80/90
	S1-EHK-15J	11.3/15	2	54.2/62.5	68/79	70/80	98/108	100/110
5 Ton	S1-EHK-05J	3.8/5	1	18.1/20.8	23/26	25/30	64/68	70/80
	S1-EHK-08J	5.6/7.5	1	27.1/31.3	34/40	35/40	75/81	90/90
	S1-EHK-10J	7.5/10.0	1	36.1/41.7	46/53	50/60	87/94	100/100
	S1-EHK-15J	11.3/15	2	54.2/62.5	68/79	70/80	109/120	110/125
	S1-EHK-20J	15/20	2	72.2/83.3	91/105	100/110	132/146	150/150

Table 11 Electrical Data With Electric Heat

1 Minimum Circuit Ampacity.

2 Maximum Overcurrent Protection per Standard UL 60335.

3 Fuse or HACR circuit breaker size field installed.

** Max Fuse/Breaker Sizes are for electric heater ONLY (dual point electric heat). DOES NOT include breaker size for the unit.*

*** Max Fuse/Breaker Sizes include breaker size for the unit AND electric heat (single point electric heat).*

Refer to Electric Heat Kit Installation Manual, some heater kits include fuses from the manufacturer.

9 Dimensions

9.1 3 Ton Model

9.1.1 Unit Dimensions

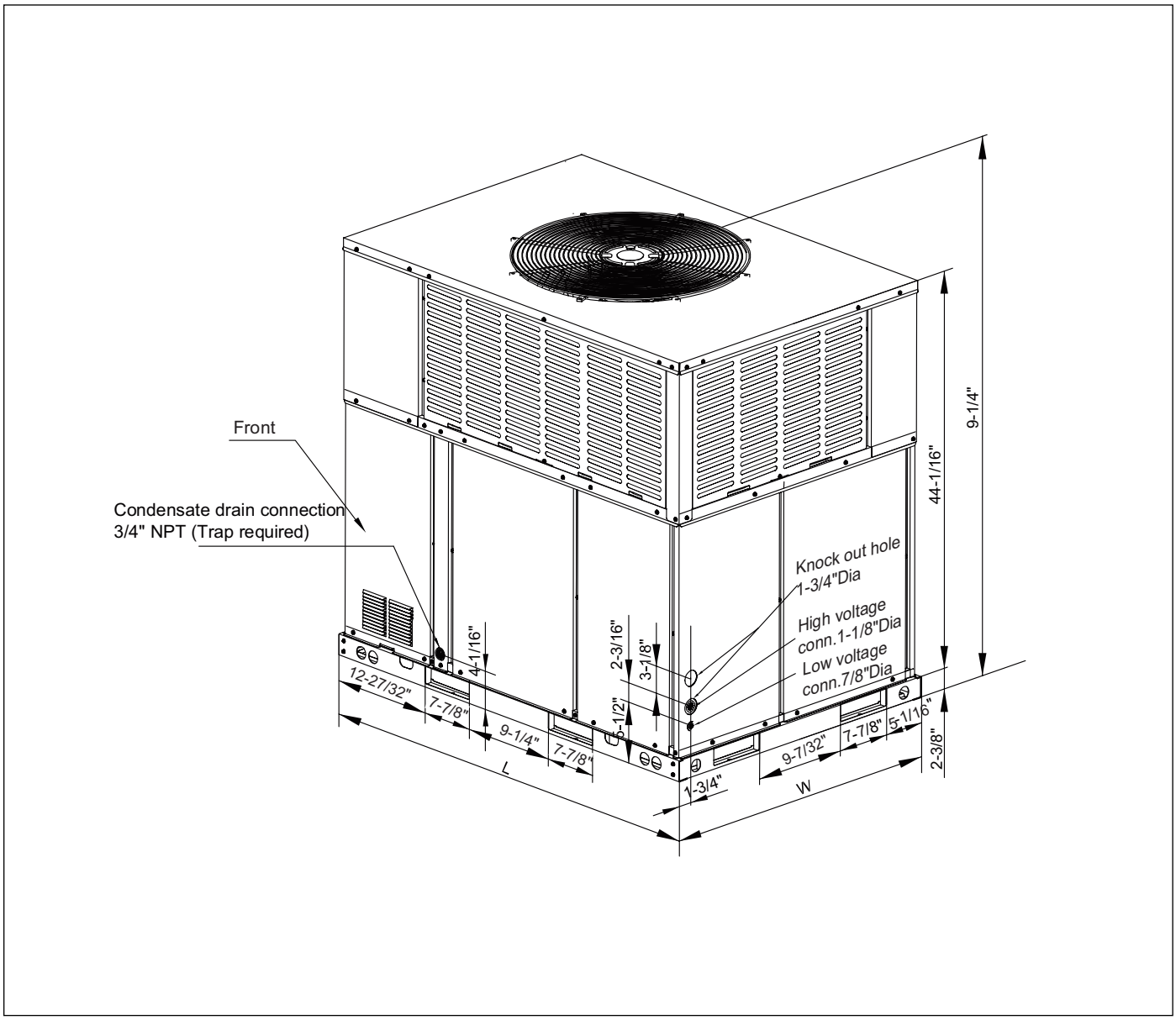


Figure 2

Model Size	Unit Length "L" - in	Unit Width "W" - in	Unit Height "H" - in
3 Ton	50-11/16	35-1/16	46-13/16

Table 12 Unit Dimensions

Model Size	Net Weight - lb [kg]	Gross Weight - lb [kg]
3 Ton	403 [183]	422 [192]

Table 13 Unit Weights

9.1.2 Dimensions - Back and Bottom

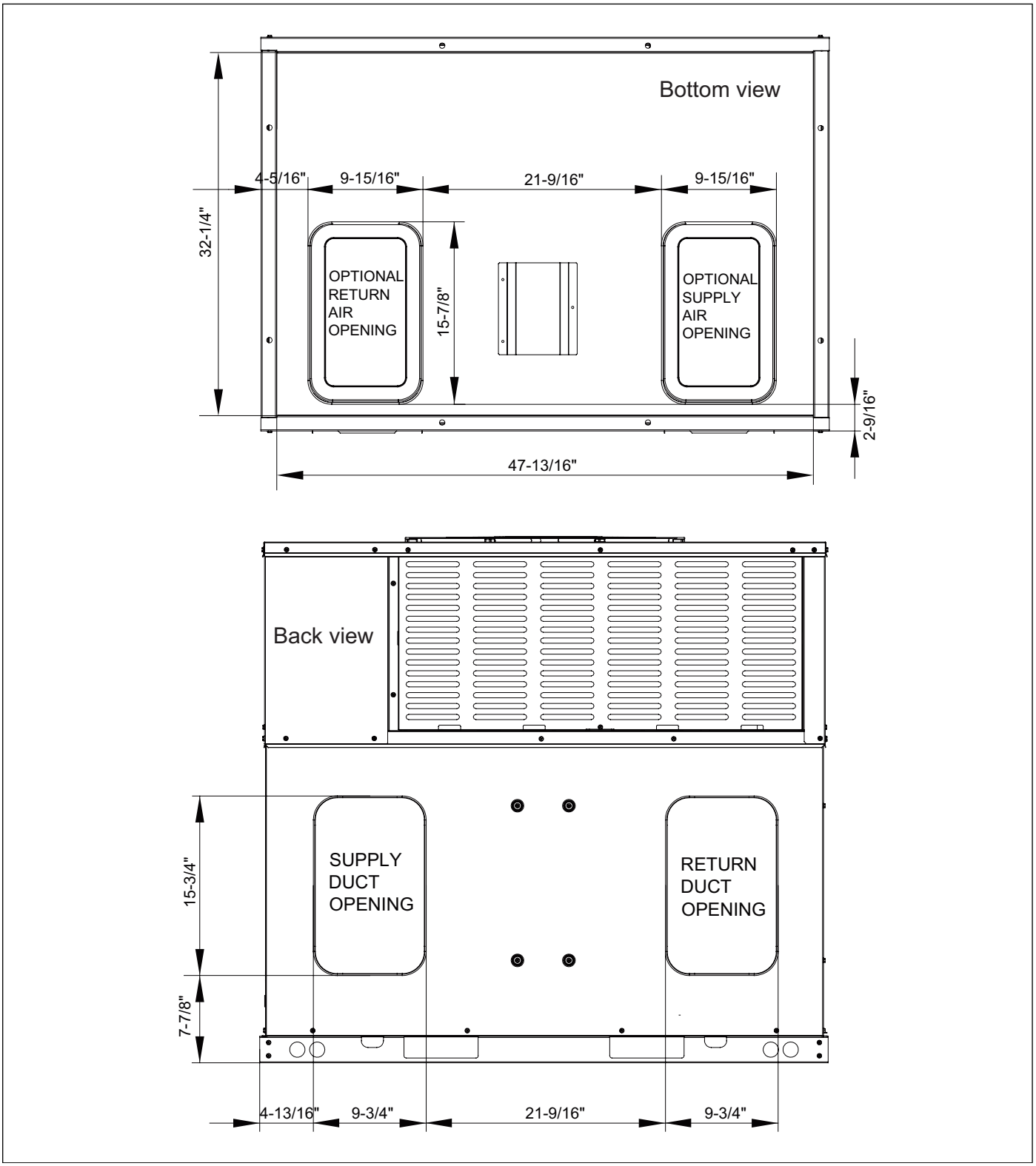


Figure 3

9.1.3 Dimensions - Left and Top

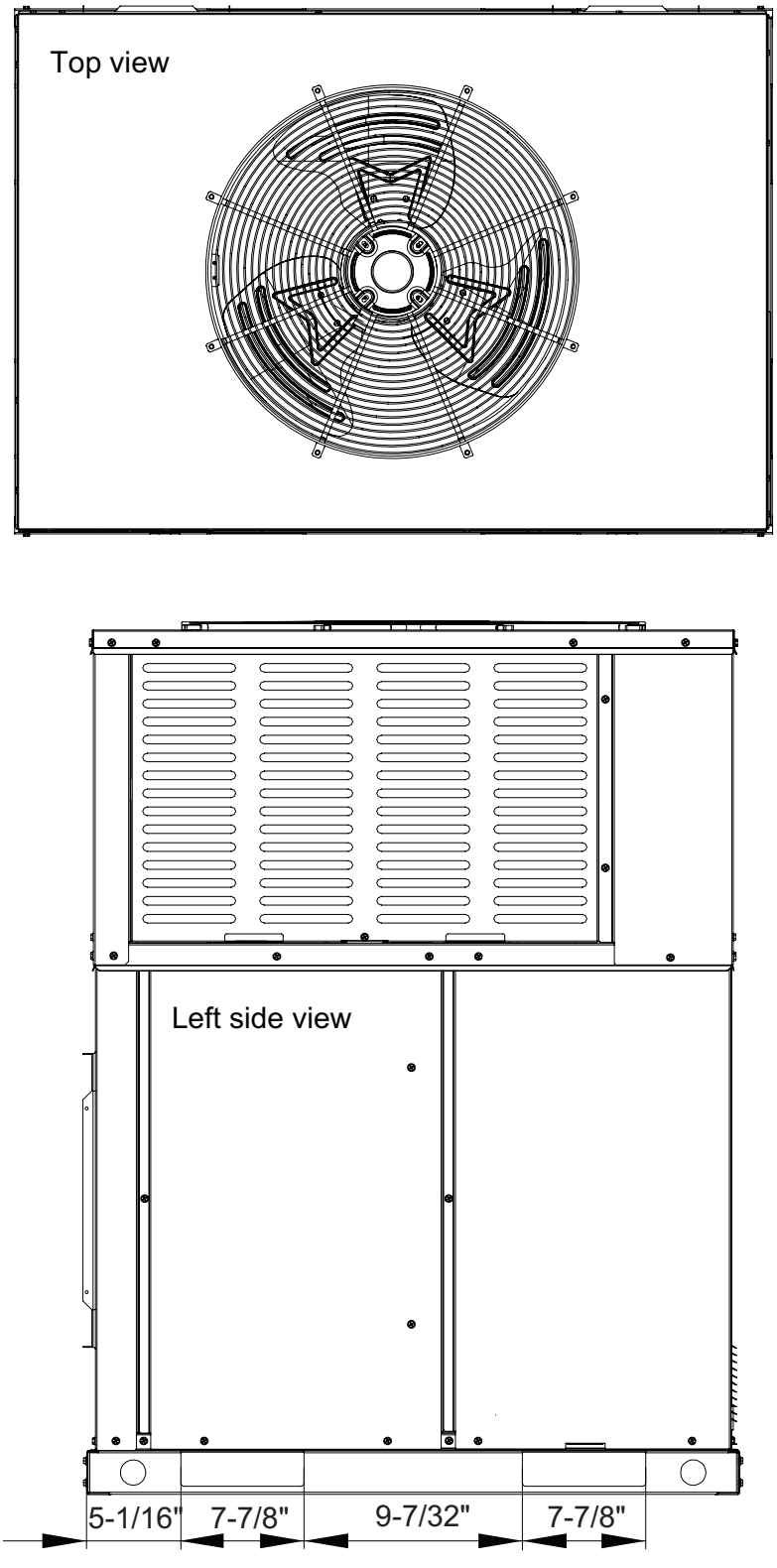


Figure 4

9.2 5 Ton Model

9.2.1 Unit Dimensions

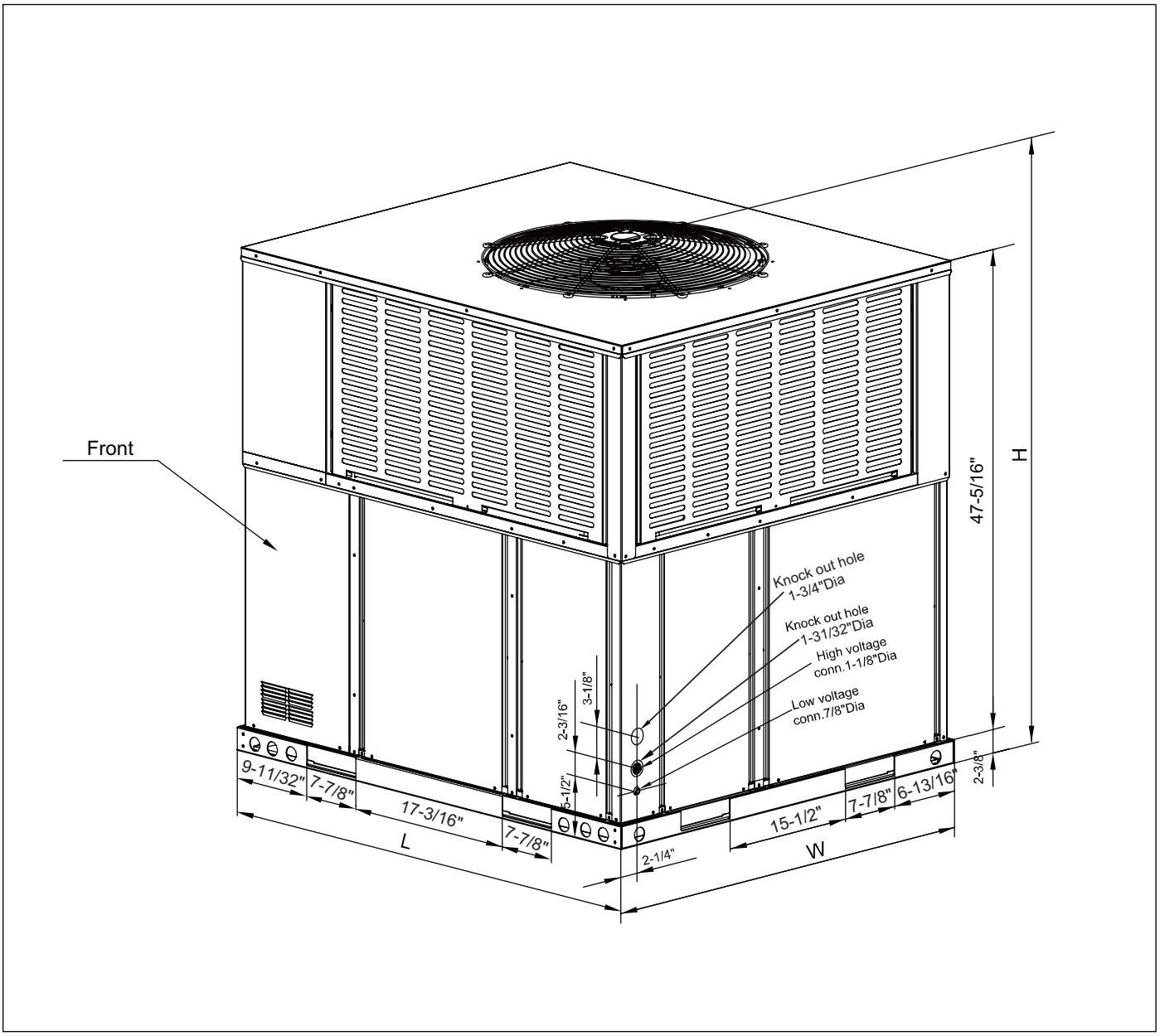


Figure 5

Model Size	Unit Length "L" - in	Unit Width "W" - in	Unit Height "H" - in
5 Ton	51-9/16	44-13/16	51-7/16

Table 14 Unit Dimensions

Model Size	Net Weight - lb [kg]	Gross Weight - lb [kg]
5 Ton	551 [250]	568 [258]

Table 15 Unit Weights

9.2.2 Dimensions - Back and Bottom

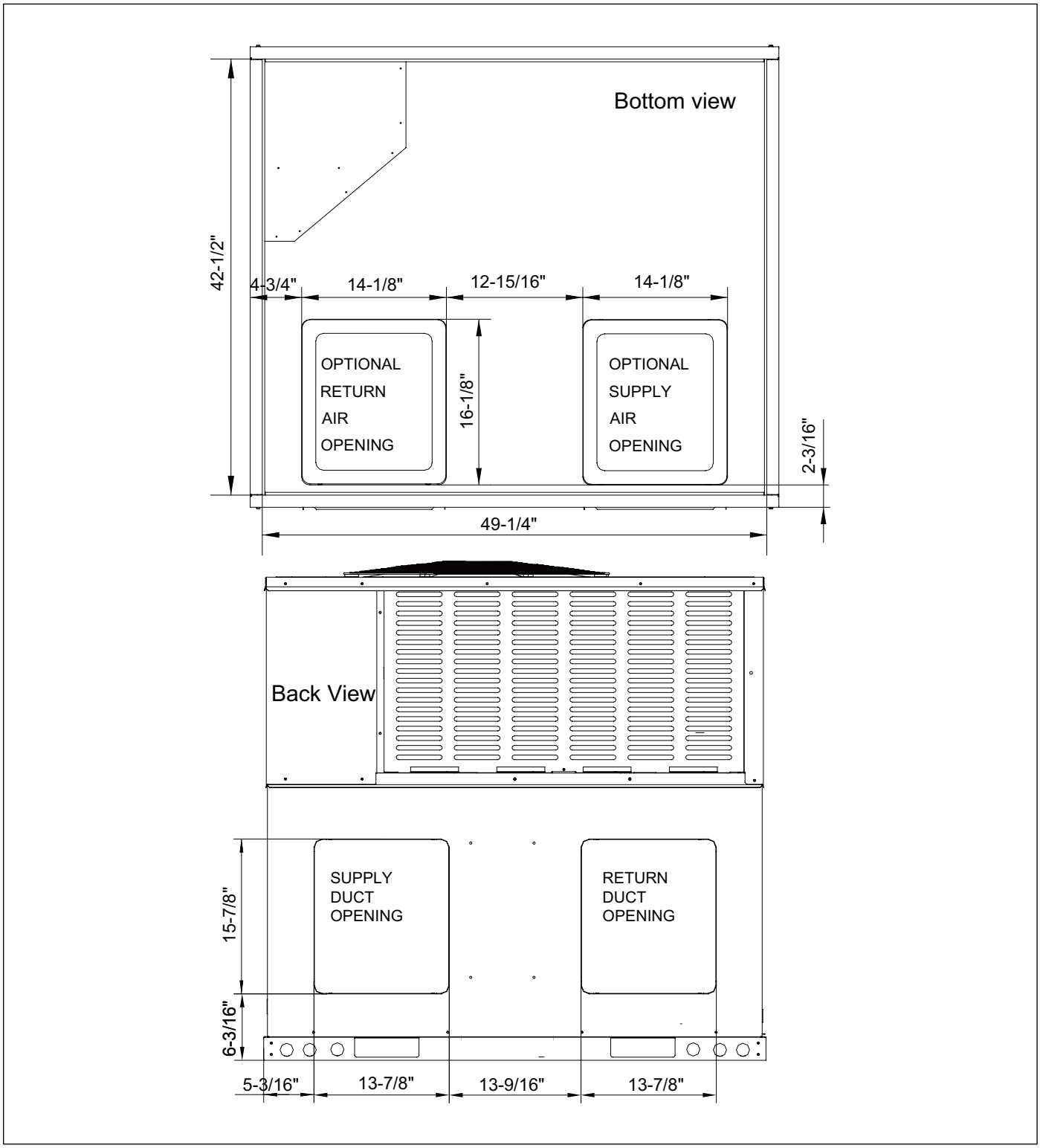


Figure 6

9.2.3 Dimensions - Right and Top

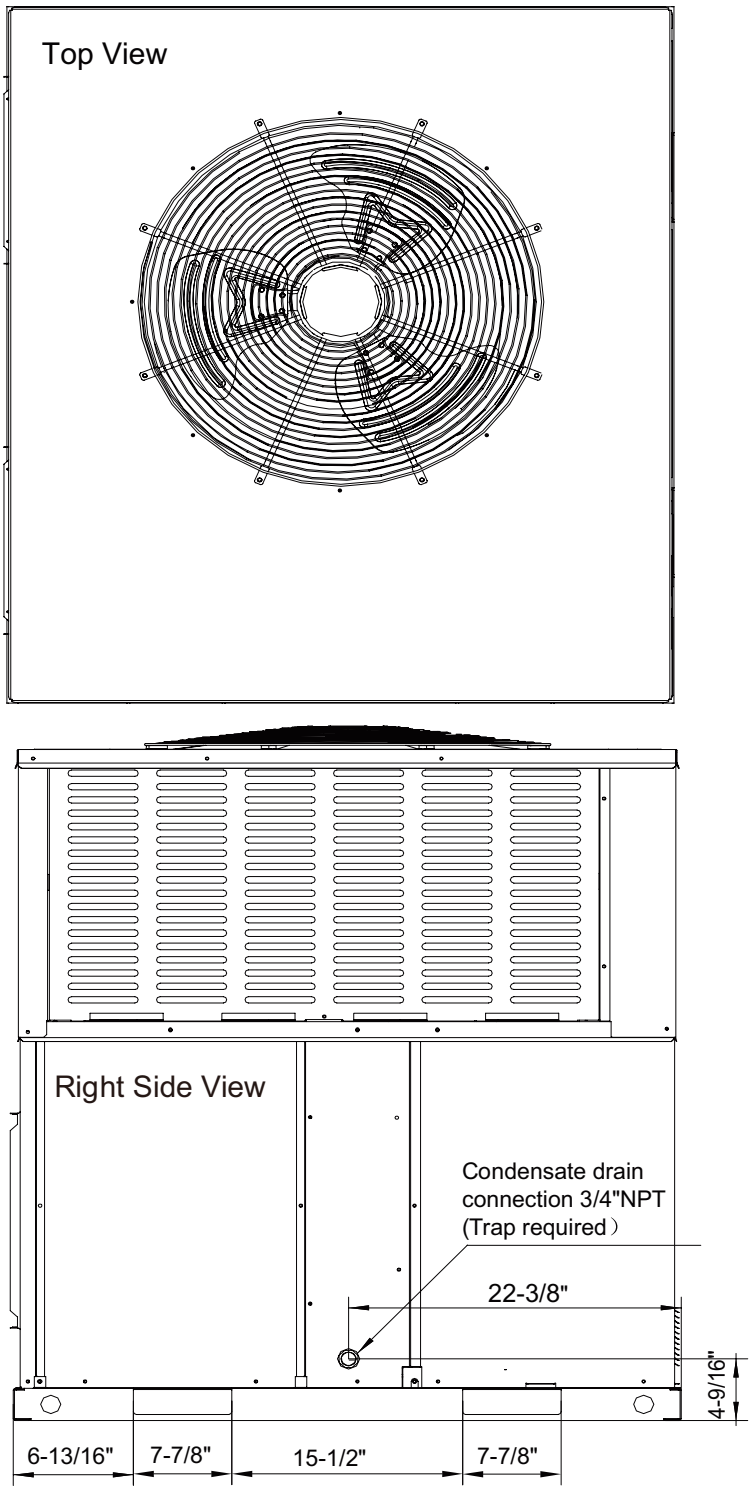


Figure 7

BHC Group Heating & Cooling
5005 York Drive
Norman, OK 73069

BTC 910908201 A / 05.2026

BHC Group Heating & Cooling reserves the right to make changes without notice due to continuing engineering and technological advances.