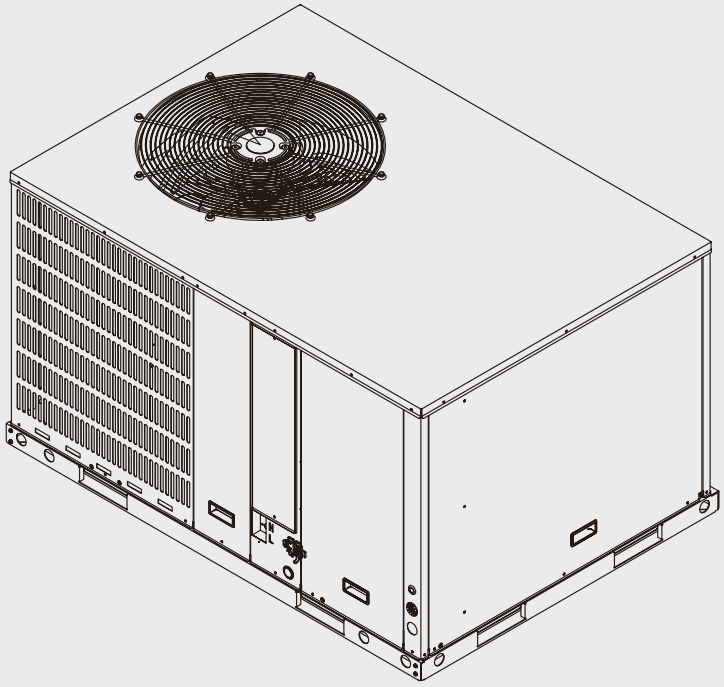
Product Specifications

Bosch IDP Heat Pump
Plus Series Packaged Unit

16 SEER2 | 3&5 Ton Capacity | R454B



BTC 7620083 10 B / 02.2026

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

Table of Contents

1 Key to Symbols and Safety Instructions

1.1 Key to Symbols

Warnings

In warnings, signal words at the beginning of a warning are used to indicate the type and seriousness of the ensuing risk if measures for minimizing danger are not taken.

The following keywords are defined and can be used in this document:

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor to moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

Important information

The info symbol indicates important information where there is no risk to people or property.

2 Product Features

2.1 Features and Benefits

- Superior efficiency
  - 3T Unit rated at 16 SEER2, 9 EER2, 8.1 HSPF2
  - 5T Unit rated at 16 SEER2, 10 EER2, 8.5 HSPF2
- Fully modulating Inverter Drive precisely matches the heating/cooling load
- Inverter Compressor (31%-107% speed in cooling, 32%-105% speed in heating), modulation in 1% increments
- 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

2.2 Standard Features

- Product designed to use R454B refrigerant
- Intelligent Oil Return Technology
- Inverter Driven Rotary Compressor
- Crankcase Heater Standard
- 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

2.3 Cabinet Features

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

2.4 Limited Warranty

For Products installed in a one or two family residential dwelling, BTC warrants that all compressors and internal components incorporated into the Product at the time of shipment by BTC 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 BTC determines that the Product or any part of the Product has a defect in workmanship or materials, BTC 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.

** Please refer to www.bosch-homecomfort.us for full warranty terms and conditions.*

*** Warranty Labor Allowance Schedule details are available on https://claims.boschhomecomfort.us*

2.5 Online Help Resources

Alternatively, please visit our Service & Support webpage to find FAQs, videos, service bulletins, and more; www.bosch-homecomfort.us/service or use your cellphone to scan the code below.

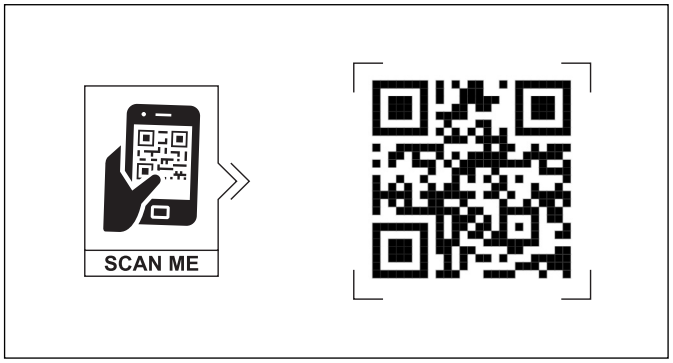


Figure 1

3 Nomenclature

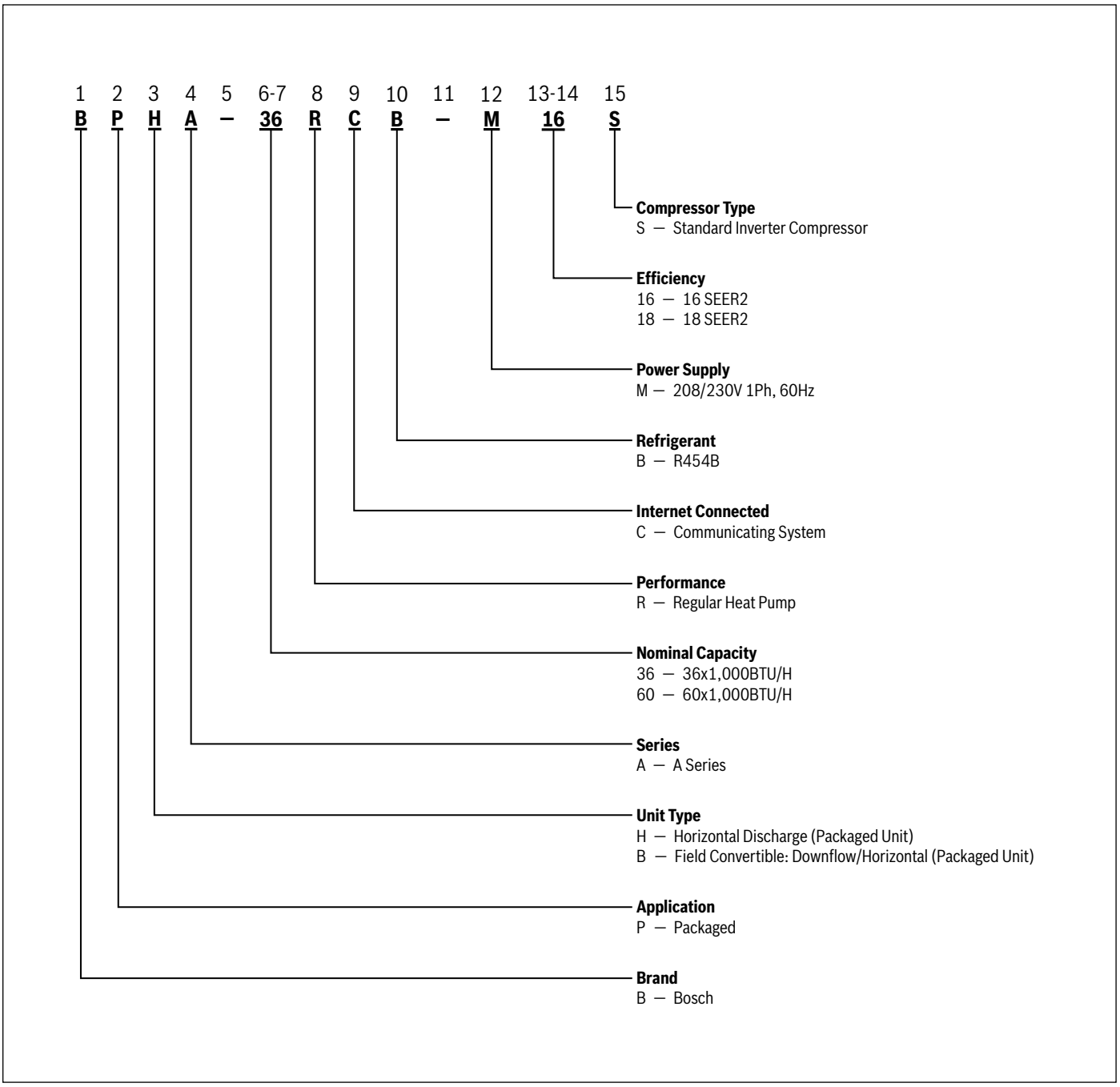


Figure 2

4 Product Specifications

	BPHA-36RCB-M16S	BPHA-60RCB-M16S
Electrical Data		
Rated Volts/PH/Hz	208-230/1/60	208-230/1/60
Min / Max Volts	187/253	187/253
Performance Cooling	23℉ - 120 ℉	23℉ - 120 ℉
BTUH (High)	34200	57000
Indoor Airflow [cfm]	1200	1720
Power Input [kW]	3.42	6.33
SEER2/ EER2-HI	16.0/10.0	16.0/9.0
Performance Heating	0℉ - 86℉	0℉ - 86℉
(High Temp.) BTUH / COP (High)	34600/3.3	57000/3.3
Power Input [kW]	3.07	5.06
HSPF2 (BTU / Watt-Hr.)	8.1	8.5
Power Conn. - V/Ph/Hz	208-230/1/60	208-230/1/60
Min. Brch. Cir. Ampacity[1]	27.7	42.5
Max. Overcurrent Protection[2]	40.00	60.00
Min. / Max. Volts	187/253	187/253
Fuse Size - Max. / Recmd. [A]	35	50
Compressor	Rotary	Rotary
Volts/Ph/Hz	208-230/1/60	208-230/1/60
R.L. Amps	17.0	27.5
Outdoor Coil - Type	Finned Tube Exchanger	Finned Tube Exchanger
Rows/F.P.I.	2 / 19	2 / 19
Face Area [sq ft]	10.00	15.70
Tube Size [in]	9/32	9/32
Circuitry Type	Interlaced	Interlaced
Refrigerant Control	EEV	EEV
Indoor Coil - Type	Finned Tube Exchanger	Finned Tube Exchanger
Rows/F.p.i.	4 / 17	4 / 17
Face Area [sq ft]	3.65	6.46
Tube Size [in]	9/32	9/32
Circuitry Type	Interlaced	Interlaced
Drain Conn. Size [in]	3/4 NPTI	3/4 NPTI
Outdoor Fan - Type	Propeller	Propeller
Dia. [in]	22	23-5/8"
Drive/No. Speeds	Direct / 11	Direct / 11
CFM @0.0 in. w.g.	2850	3630
Motor - HP/R.P.M.	1/3 / 200~1050	1/3 / 200~1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	2.1	2.1

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.*

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

	BPHA-36RCB-M16S	BPHA-60RCB-M16S
Indoor Fan - Type	Centrifugal	Centrifugal
Dia x Width [in]	10-1/4 X 9-7/32	11 X 10-5/8"
Drive/No. Speeds	Direct / 5	Direct / 5
CFM @0.0 in. w.g.	See Airflow Performance Table 10	See Airflow Performance Table 10
Motor - HP/R.P.M.	1/2 / 1050	3/4 / 1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	4.3	6.0
Filter / Furnished	No	No
Type Recommended	Throwaway	Throwaway
Recmd. Face Area [L x W x D]	20" x 20" x 1"	24" x 36" x 1"
Refrigerant / Charge [lb - oz]	R454B / 3-14	R454B / 6-6
Dimensions		
Unit only L x W x H [in]	52×37-3/4×24-13/16	58-1/2×42-1/16×33-1/16
Weight [3]		
Net lb. [kg]	316 (143)	419(190)
Gross lb. [kg]	322 (146)	428(194)

Table 2

[3] Weight values are estimated.

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

5 AHRI 210/240 Performance Data

Nominal HP System Tonnage	Heat Pump Model	Cooling Capacity (BTU/h)			Heating Capacity			CFM	
		Total	EER2[2]	SEER2[1]	Hi	HSPF2[3]	Low[4]		
5	BPHA-60RCB-M16S	57000	9.0	16.0	57000	8.5	40500	1720/1210	❄
3	BPHA-36RCB-M16S	34200	10.0	16.0	34600	8.1	25000	1200/940	

Table 3

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

[2] 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*

6 Extended Performance Data

6.1 BPHA-36RCB-M16S for Cooling

BPHA-36RCB-M16S For Cooling																		
Indoor Airflow (SCFM)	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
750	32	TC	16.8	16.9	19.1	19.2	21.7	21.7	21.9	22.0	25.1	25.3	25.3	25.4	\	27.3	27.4	27.5
		S/T	0.74	0.81	0.99	1.00	0.55	0.67	0.79	0.91	0.42	0.53	0.63	0.73	\	0.33	0.50	0.59
		kW	0.80	0.79	0.79	0.88	1.01	1.01	1.01	1.01	1.18	1.15	1.16	1.17	\	1.37	1.37	1.35
	65	TC	16.4	16.4	16.5	18.7	21.2	21.3	21.5	21.6	24.6	24.8	24.8	24.9	\	26.7	26.8	26.9
		S/T	0.74	0.90	0.99	1.00	0.55	0.67	0.79	0.91	0.42	0.53	0.63	0.73	\	0.40	0.50	0.59
		kW	0.93	0.92	0.92	1.02	1.18	1.18	1.18	1.17	1.38	1.34	1.35	1.36	\	1.59	1.59	1.57
	75	TC	16.0	16.0	16.5	18.3	19.1	19.4	19.6	19.7	23.0	23.1	23.3	23.4	\	25.7	25.8	25.9
		S/T	0.75	0.91	0.99	1.00	0.56	0.70	0.83	0.95	0.42	0.54	0.65	0.75	\	0.40	0.50	0.59
		kW	1.03	1.03	1.06	1.16	1.19	1.20	1.20	1.20	1.47	1.45	1.45	1.45	\	1.68	1.68	1.69
	85	TC	13.5	13.5	14.9	16.7	16.8	16.8	17.0	17.1	21.5	21.5	21.6	21.8	\	25.3	25.4	25.6
		S/T	0.80	0.98	0.99	1.00	0.58	0.73	0.89	1.00	0.42	0.54	0.66	0.77	\	0.40	0.51	0.60
		kW	1.04	1.05	1.07	1.17	1.21	1.21	1.21	1.21	1.55	1.55	1.55	1.54	\	1.79	1.79	1.79
	95	TC	12.8	12.8	14.7	16.3	16.5	16.5	16.5	16.5	19.5	19.7	19.8	19.9	\	23.4	23.5	23.6
		S/T	0.82	0.98	0.99	1.00	0.58	0.74	0.89	1.00	0.42	0.55	0.69	0.81	\	0.40	0.51	0.61
		kW	1.23	1.23	1.37	1.52	1.50	1.51	1.52	1.51	1.69	1.69	1.69	1.68	\	2.12	2.11	2.11
	105	TC	12.6	12.6	14.4	15.6	15.4	15.6	15.7	16.2	19.1	19.0	19.0	19.3	\	22.7	22.8	22.9
		S/T	0.83	0.98	0.99	1.00	0.60	0.76	0.93	1.00	0.42	0.56	0.69	0.82	\	0.40	0.51	0.62
		kW	1.55	1.54	1.71	1.83	1.78	1.78	1.77	1.87	2.11	2.11	2.11	2.09	\	2.61	2.55	2.54
	115	TC	11.1	11.4	13.4	15.2	14.2	14.2	14.2	15.5	18.0	18.2	18.5	18.6	\	21.2	21.3	21.4
		S/T	0.86	0.98	0.99	1.00	0.60	0.77	0.94	1.00	0.42	0.56	0.70	0.82	\	0.40	0.52	0.62
		kW	1.39	1.39	1.54	1.64	1.60	1.60	1.59	1.68	1.90	1.90	1.90	1.88	\	2.35	2.29	2.28
	120	TC	8.0	8.2	9.6	10.9	10.2	10.5	10.8	11.1	12.9	13.1	13.3	13.2	\	15.2	15.3	15.4
		S/T	0.86	0.98	0.99	1.00	0.60	0.77	0.94	1.00	0.42	0.56	0.70	0.83	\	0.40	0.52	0.62
		kW	1.11	1.11	1.23	1.32	1.28	1.28	1.27	1.34	1.52	1.52	1.52	1.51	\	1.88	1.83	1.83
900	32	TC	21.8	22.1	22.7	25.0	26.1	26.1	26.4	26.8	30.2	30.3	30.5	30.6	\	32.7	32.8	32.9
		S/T	0.74	0.81	0.99	1.00	0.62	0.81	0.97	0.98	0.42	0.55	0.75	0.88	\	0.33	0.51	0.67
		kW	1.06	1.05	1.09	1.21	1.26	1.26	1.29	1.26	1.48	1.49	1.50	1.51	\	1.70	1.70	1.73
	65	TC	21.6	21.6	22.5	24.8	25.8	25.8	26.1	26.5	29.9	30.0	30.2	30.3	\	34.1	34.1	34.3
		S/T	0.76	0.93	0.99	1.00	0.57	0.71	0.84	0.97	0.42	0.54	0.66	0.77	\	0.40	0.51	0.61
		kW	1.23	1.23	1.27	1.41	1.47	1.46	1.49	1.47	1.72	1.73	1.75	1.76	\	1.98	1.98	2.01
	75	TC	19.0	19.1	21.1	22.9	22.8	22.9	22.9	23.5	27.6	27.6	27.7	27.7	\	30.5	30.6	30.7
		S/T	0.80	0.98	0.99	1.00	0.59	0.74	0.90	1.00	0.42	0.55	0.68	0.81	\	0.40	0.52	0.62
		kW	1.25	1.26	1.38	1.53	1.50	1.50	1.50	1.55	1.85	1.85	1.85	1.85	\	2.11	2.13	2.14
	85	TC	18.0	18.5	20.4	22.2	21.9	22.3	22.6	22.9	25.8	25.8	25.8	25.9	\	29.4	29.5	29.6
		S/T	0.82	0.98	0.99	1.00	0.59	0.76	0.92	1.00	0.42	0.56	0.70	0.84	\	0.40	0.52	0.63
		kW	1.41	1.41	1.55	1.69	1.65	1.66	1.66	1.70	1.89	1.89	1.88	1.87	\	2.28	2.28	2.29
	95	TC	17.7	18.1	20.2	22.1	21.8	22.2	22.5	22.7	24.9	24.9	25.0	25.0	\	28.6	28.7	28.8
		S/T	0.83	0.98	0.99	1.00	0.59	0.76	0.92	1.00	0.42	0.57	0.71	0.85	\	0.40	0.53	0.64
		kW	1.70	1.74	1.89	2.09	2.05	2.05	2.05	2.09	2.21	2.21	2.21	2.21	\	2.68	2.68	2.69
	105	TC	17.1	17.3	19.8	21.1	20.2	20.5	20.9	21.5	23.9	24.1	24.2	24.3	\	27.7	27.8	27.9
		S/T	0.85	0.98	0.99	1.00	0.61	0.79	0.95	1.00	0.42	0.58	0.73	0.87	\	0.41	0.53	0.65
		kW	2.08	2.09	2.32	2.44	2.34	2.31	2.31	2.44	2.68	2.70	2.70	2.69	\	3.29	3.30	3.30
	115	TC	15.1	15.8	17.6	19.5	17.6	17.6	17.8	19.9	21.8	21.9	21.9	21.9	\	23.2	23.3	23.4
		S/T	0.88	0.98	0.99	1.00	0.62	0.82	0.97	1.00	0.42	0.58	0.74	0.89	\	0.41	0.55	0.69
		kW	1.87	1.88	2.09	2.20	2.10	2.08	2.08	2.20	2.41	2.43	2.43	2.42	\	2.96	2.97	2.97
	120	TC	10.8	11.4	12.7	14.0	12.6	12.7	12.8	14.4	15.7	15.8	15.8	15.8	\	16.6	16.7	16.8
		S/T	0.88	0.98	0.99	1.00	0.62	0.82	0.99	1.00	0.42	0.58	0.74	0.89	\	0.41	0.56	0.69
		kW	1.62	1.69	1.55	1.64	1.61	1.62	1.62	1.64	1.69	1.72	1.74	1.74	\	2.04	2.06	2.06
1050	32	TC	24.8	25.1	27.5	29.2	29.6	29.8	29.9	30.1	33.7	34.5	34.7	34.8	\	35.5	35.6	35.7
		S/T	0.75	0.82	0.99	1.00	0.62	0.82	0.98	0.99	0.42	0.55	0.76	0.88	\	0.34	0.51	0.67
		kW	1.10	1.15	1.26	1.35	1.35	1.36	1.36	1.37	1.54	1.61	1.62	1.63	\	1.76	1.77	1.87
	65	TC	24.6	24.8	27.2	29.0	29.3	29.5	29.6	29.8	33.3	34.2	34.4	34.5	\	35.2	35.3	35.4
		S/T	0.79	0.98	0.99	1.00	0.58	0.73	0.88	0.99	0.42	0.55	0.68	0.80	\	0.40	0.53	0.64
		kW	1.41	1.48	1.62	1.73	1.74	1.75	1.75	1.75	1.98	2.07	2.08	2.09	\	2.25	2.27	2.35
	75	TC	21.8	22.1	25.1	27.2	26.0	26.3	26.4	27.8	31.5	31.6	31.7	31.7	\	34.0	34.1	34.2
		S/T	0.83	0.98	0.99	1.00	0.60	0.77	0.93	1.00	0.42	0.56	0.70	0.84	\	0.40	0.53	0.65
		kW	1.42	1.49	1.63	1.80	1.74	1.75	1.75	1.80	2.10	2.10	2.10	2.09	\	2.32	2.35	2.36
	85	TC	21.7	22.0	25.0	27.1	25.9	26.2	26.3	27.6	29.4	29.7	29.7	30.0	\	33.6	33.7	33.8
		S/T	0.84	0.98	0.99	1.00	0.60	0.77	0.94	1.00	0.42	0.57	0.73	0.87	\	0.41	0.53	0.65
		kW	1.72	1.73	1.93	2.15	2.02	2.03	2.04	2.15	2.23	2.24	2.24	2.27	\	2.72	2.75	2.76
	95	TC	21.6	21.9	24.9	27.0	25.7	26.1	26.2	27.5	29.1	29.5	29.6	29.8	\	32.6	32.7	32.8
		S/T	0.84	0.98	0.99	1.00	0.60	0.77	0.94	1.00	0.42	0.57	0.72	0.87	\	0.41	0.54	0.66
		kW	2.07	2.09	2.34	2.58	2.46	2.48	2.48	2.58	2.75	2.75	2.75	2.75	\	3.11	3.12	3.14
	105	TC	20.5	21.1	24.1	25.5	24.9	25.1	25.1	26.1	27.4	27.9	28.0	28.0	\	31.2	31.3	31.4
		S/T	0.86	0.98	0.99	1.00	0.61	0.79	0.95	1.00	0.42	0.59	0.75	0.90	\	0.41	0.55	0.68
		kW	2.31	2.37	2.67	2.82	2.78	2.79	2.79	2.83	2.92	2.98	3.00	2.99	\	3.52	3.55	3.56
	115	TC	18.3	19.2	20.9	22.5	20.9	21.0	21.5	23.0	23.2	23.3	23.4	23.4	\	23.8	23.9	24.0
		S/T	0.88	0.98	0.99	1.00	0.63	0.84	0.97	1.00	0.43	0.61	0.79	0.95	\	0.42	0.59	0.75
		kW	1.96	2.02	2.27	2.40	2.36	2.37	2.38	2.40	2.48	2.53	2.55	2.54	\	2.99	3.02	3.03
	120	TC	12.8	13.4	14.6	15.7	14.7	14.7	15.1	16.1	16.3	16.3	16.4	16.4	\	16.6	16.7	16.8
		S/T	0.89	0.98	0.99	1.00	0.63	0.84	1.00	1.00	0.43	0.61	0.80	0.96	\	0.42	0.59	0.75
		kW	1.78	1.85	1.70	1.80	1.77	1.78	1.78	1.80	1.86	1.90	1.91	1.91	\	2.24	2.26	2.27

Table 4

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

BPHA-36RCB-M16S For Cooling																		
Indoor Airflow (SCFM)	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
1200	32	TC	26.2	27.3	30.7	34.1	31.8	32.0	32.3	34.1	36.5	37.0	37.2	37.5	\	38.5	38.6	38.7
		S/T	0.76	0.83	0.99	1.00	0.63	0.88	0.99	1.00	0.42	0.56	0.77	0.97	\	0.34	0.52	0.68
		kW	1.29	1.34	1.44	1.56	1.51	1.53	1.54	1.56	1.74	1.76	1.81	1.82	\	1.97	1.99	2.09
	65	TC	25.8	26.9	30.2	32.9	31.3	31.6	31.8	33.6	35.9	36.5	36.6	36.9	\	37.9	38.0	38.1
		S/T	0.81	0.98	0.99	1.00	0.59	0.76	0.92	0.99	0.42	0.57	0.71	0.85	\	0.41	0.54	0.65
		kW	1.65	1.72	1.85	2.00	1.93	1.96	1.97	2.00	2.24	2.26	2.32	2.33	\	2.53	2.55	2.68
	75	TC	24.5	25.6	28.8	31.3	29.8	30.1	30.3	32.0	34.2	34.8	34.9	34.6	\	36.1	36.2	36.3
		S/T	0.85	0.98	0.99	1.00	0.60	0.77	0.94	1.00	0.42	0.58	0.73	0.87	\	0.41	0.54	0.67
		kW	1.70	1.80	2.05	2.25	2.10	2.13	2.14	2.25	2.37	2.41	2.42	2.42	\	2.75	2.79	2.80
	85	TC	24.3	25.4	28.5	31.0	29.5	29.8	30.0	31.7	33.9	34.4	34.5	34.6	\	35.8	35.9	36.0
		S/T	0.86	0.98	0.99	1.00	0.60	0.78	0.95	1.00	0.42	0.58	0.73	0.88	\	0.41	0.55	0.68
		kW	2.04	2.14	2.38	2.66	2.46	2.52	2.53	2.66	2.81	2.87	2.87	2.86	\	3.12	3.16	3.19
	95	TC	24.1	25.1	28.2	30.7	29.3	29.5	29.7	31.4	33.0	34.1	34.2	34.2	\	35.4	35.5	35.6
		S/T	0.87	0.98	0.99	1.00	0.60	0.78	0.95	1.00	0.42	0.58	0.77	0.89	\	0.42	0.55	0.67
		kW	2.42	2.54	2.82	3.14	2.95	2.97	2.97	3.15	3.36	3.42	3.42	3.41	\	3.64	3.64	3.63
	105	TC	23.1	24.3	27.3	29.8	27.7	28.1	28.1	30.4	31.2	31.4	31.5	31.5	\	31.9	32.0	32.1
		S/T	0.88	0.98	0.99	1.00	0.62	0.81	0.96	1.00	0.42	0.60	0.77	0.92	\	0.42	0.57	0.72
		kW	2.75	2.87	3.20	3.56	3.25	3.31	3.31	3.56	3.59	3.59	3.59	3.59	\	3.65	3.65	3.65
	115	TC	20.2	21.6	23.6	24.9	22.7	22.8	23.6	25.4	24.8	24.9	25.1	25.4	\	26.1	26.2	26.3
		S/T	0.88	0.98	0.99	1.00	0.66	0.89	0.97	1.00	0.44	0.65	0.86	1.00	\	0.43	0.63	0.82
		kW	2.61	2.72	2.84	3.08	2.95	2.96	2.99	3.08	3.07	3.07	3.07	3.08	\	3.11	3.11	3.11
	120	TC	14.1	15.1	16.5	17.4	15.9	16.0	16.5	17.8	17.3	17.5	17.6	17.8	\	18.3	18.4	18.5
		S/T	0.91	0.98	0.99	1.00	0.76	0.98	1.00	1.00	0.44	0.76	0.90	1.00	\	0.42	0.74	0.90
		kW	1.96	2.04	2.13	2.31	2.21	2.22	2.24	2.31	2.31	2.31	2.31	2.31	\	2.33	2.33	2.33
1350	32	TC	28.6	29.1	32.2	34.7	33.0	33.5	33.1	35.5	37.0	37.8	38.2	38.3	\	39.0	39.1	39.2
		S/T	0.79	0.98	0.99	1.00	0.64	0.89	0.99	1.00	0.42	0.61	0.81	0.97	\	0.40	0.56	0.76
		kW	1.44	1.46	1.60	1.77	1.66	1.68	1.64	1.77	1.87	1.90	1.92	1.92	\	2.03	2.16	2.19
	65	TC	27.5	28.7	31.7	34.2	32.5	33.0	32.6	34.9	36.4	37.2	37.6	37.7	\	38.4	38.5	38.6
		S/T	0.83	0.98	0.99	1.00	0.60	0.78	0.95	1.00	0.42	0.58	0.73	0.88	\	0.41	0.55	0.68
		kW	1.85	1.87	2.05	2.27	2.13	2.15	2.10	2.27	2.39	2.43	2.46	2.46	\	2.61	2.76	2.81
	75	TC	26.0	27.5	31.0	33.5	31.0	31.5	31.8	34.2	34.6	35.5	35.7	36.0	\	38.2	38.3	38.4
		S/T	0.87	0.98	0.99	1.00	0.61	0.80	0.97	1.00	0.42	0.59	0.76	0.90	\	0.41	0.55	0.68
		kW	1.92	1.97	2.23	2.45	2.24	2.27	2.28	2.45	2.50	2.50	2.50	2.54	\	2.90	2.99	3.03
	85	TC	25.5	26.9	30.6	33.0	30.6	31.0	31.2	33.7	34.1	34.9	35.2	35.4	\	37.1	37.2	37.3
		S/T	0.88	0.98	0.99	1.00	0.61	0.81	0.97	1.00	0.42	0.59	0.76	0.92	\	0.41	0.56	0.70
		kW	2.23	2.32	2.63	2.89	2.65	2.67	2.69	2.89	2.95	2.95	2.96	2.95	\	3.27	3.34	3.37
	95	TC	25.0	26.6	30.1	32.0	30.0	30.7	30.8	33.1	33.8	34.5	34.8	34.9	\	36.0	36.1	36.2
		S/T	0.88	0.98	0.99	1.00	0.62	0.81	0.97	1.00	0.42	0.59	0.78	0.92	\	0.42	0.57	0.72
		kW	2.63	2.75	3.10	3.40	3.11	3.15	3.15	3.40	3.52	3.52	3.52	3.51	\	3.72	3.71	3.71
	105	TC	24.1	26.1	29.4	30.9	29.1	29.5	29.4	31.6	31.7	31.9	32.1	32.1	\	32.3	32.4	32.5
		S/T	0.90	0.98	0.99	1.00	0.63	0.83	0.97	1.00	0.43	0.61	0.80	0.96	\	0.42	0.59	0.76
		kW	2.93	3.15	3.51	3.66	3.51	3.53	3.51	3.66	3.67	3.67	3.67	3.67	\	3.73	3.73	3.73
	115	TC	20.8	22.6	24.6	25.4	23.0	23.2	24.6	26.0	25.0	25.3	25.4	26.0	\	26.4	26.5	26.6
		S/T	0.95	0.98	0.99	1.00	0.69	0.94	0.97	1.00	0.44	0.68	0.91	1.00	\	0.44	0.66	0.87
		kW	2.74	2.86	2.97	3.12	3.03	3.03	3.13	3.11	3.15	3.14	3.14	3.12	\	3.18	3.18	3.17
	120	TC	16.7	18.1	19.7	20.4	18.4	18.5	19.7	20.8	20.0	20.2	20.4	20.8	\	21.1	21.2	21.3
		S/T	0.96	1.00	1.00	1.00	0.85	0.99	1.00	1.00	0.44	0.86	1.00	1.00	\	0.46	0.76	0.95
		kW	2.15	2.24	2.34	2.54	2.44	2.44	2.46	2.54	2.54	2.54	2.54	2.54	\	2.57	2.57	2.56

Table 5

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

6.2 BPHA-36RCB-M16S for Heating

BPHA-36RCB-M16S for Heating																			
Airflow (SCFM)	ID(°F)	OD(°F)	86	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2	-4
750	60	TC	26.9	26.3	26.4	26.7	26.6	26.3	26.0	25.5	25.1	25.8	26.0	25.4	23.9	23.5	21.7	20.0	16.6
		kW	1.50	1.72	1.79	1.93	2.10	2.18	2.30	2.39	2.54	2.78	3.39	3.61	3.47	3.86	3.66	3.36	2.79
	70	TC	21.5	21.1	20.9	20.7	20.6	20.5	20.4	20.3	19.9	20.1	20.5	20.7	20.5	18.9	18.5	17.4	16.2
		kW	1.21	1.42	1.51	1.50	1.70	1.75	1.92	1.98	2.07	2.34	2.69	3.06	3.17	3.22	3.22	3.05	2.95
	75	TC	18.2	18.1	18.2	17.7	18.0	18.0	17.7	17.4	17.3	17.5	17.7	17.9	17.7	16.4	16.0	15.2	14.1
		kW	1.02	1.21	1.28	1.31	1.46	1.55	1.63	1.70	1.88	2.10	2.40	2.76	2.80	2.86	2.95	2.72	2.64
	80	TC	16.0	15.0	14.6	14.9	15.6	15.0	15.1	14.7	14.4	14.7	14.9	15.0	14.9	13.8	13.8	12.4	11.5
		kW	0.92	1.02	1.03	1.14	1.28	1.32	1.44	1.49	1.57	1.76	2.05	2.42	2.51	2.55	2.55	2.31	2.24
900	60	TC	36.6	35.8	35.4	34.9	35.3	34.9	34.2	31.9	30.0	27.8	28.1	26.3	24.7	24.2	22.6	21.0	16.7
		kW	2.02	2.33	2.44	2.54	2.82	2.94	3.03	2.94	2.90	2.81	3.46	3.35	3.26	3.66	3.48	3.27	2.78
	70	TC	29.1	28.8	28.4	28.2	28.0	27.8	27.5	27.0	26.5	26.8	27.7	25.8	24.2	23.6	22.0	20.5	16.3
		kW	1.68	1.91	1.94	2.02	2.26	2.34	2.47	2.57	2.72	2.90	3.73	3.61	3.48	3.89	3.69	3.47	2.95
	75	TC	25.2	24.2	24.0	23.6	24.9	24.4	23.8	23.4	23.3	23.5	23.6	24.1	23.7	21.9	21.4	19.6	15.6
		kW	1.45	1.63	1.68	1.75	2.01	2.08	2.17	2.26	2.41	2.69	3.01	3.50	3.57	3.73	3.74	3.50	2.98
	80	TC	22.0	21.1	21.1	20.1	20.8	20.3	20.4	20.0	19.8	19.8	20.2	20.3	20.0	18.6	18.0	16.0	12.7
		kW	1.28	1.46	1.52	1.52	1.67	1.76	1.93	2.00	2.12	2.34	2.72	3.05	3.13	3.25	3.20	2.83	2.41
1050	60	TC	43.9	42.3	42.1	40.0	38.2	36.3	34.5	32.6	30.5	28.2	29.6	26.2	24.7	24.6	22.8	20.9	16.6
		kW	2.52	2.83	2.99	3.00	2.91	2.81	2.80	2.79	2.78	2.74	3.40	3.26	3.19	3.61	3.45	3.21	2.78
	70	TC	34.9	34.5	34.0	33.4	33.1	33.0	32.6	31.5	30.1	27.9	28.2	26.5	24.5	24.2	22.3	20.7	16.5
		kW	1.97	2.20	2.30	2.45	2.67	2.83	2.96	3.02	2.98	2.93	3.61	3.51	3.43	3.81	3.64	3.41	2.95
	75	TC	30.0	29.4	28.7	28.3	29.4	28.4	28.4	27.8	27.4	27.4	28.0	25.9	24.3	23.7	21.9	20.5	16.3
		kW	1.77	1.97	2.01	2.09	2.39	2.42	2.59	2.69	2.88	3.07	3.76	3.64	3.68	3.90	3.76	3.53	3.05
	80	TC	25.7	24.5	24.3	23.9	25.4	24.4	24.2	23.7	23.1	23.7	23.9	24.1	23.8	21.9	21.4	19.7	15.7
		kW	1.53	1.70	1.75	1.82	2.06	2.12	2.24	2.33	2.43	2.75	3.22	3.55	3.68	3.74	3.80	3.52	3.04
1200	60	TC	50.0	45.9	44.0	41.5	38.7	36.6	35.1	33.1	31.3	28.7	30.4	26.8	25.1	25.0	23.1	21.2	16.9
		kW	2.98	3.08	3.04	3.01	2.92	2.82	2.81	2.80	2.80	2.74	3.41	3.28	3.20	3.61	3.47	3.23	2.78
	70	TC	39.6	38.5	38.0	37.3	36.2	35.5	34.4	32.2	30.2	28.0	28.4	26.5	24.9	24.4	22.5	20.9	16.7
		kW	2.34	2.63	2.74	2.85	3.15	3.09	3.08	3.04	3.01	2.94	3.61	3.52	3.44	3.82	3.66	3.43	2.95
	75	TC	34.8	33.3	32.9	32.4	33.2	32.6	32.2	31.7	30.0	27.9	28.5	26.6	24.6	24.1	22.3	20.6	16.4
		kW	2.02	2.27	2.36	2.46	2.74	2.84	2.97	3.15	3.16	3.08	3.76	3.66	3.69	3.91	3.77	3.54	3.06
	80	TC	29.1	28.3	28.3	27.9	28.3	27.7	27.5	27.1	26.4	26.8	27.6	25.8	24.2	23.8	21.8	20.5	16.4
		kW	1.77	1.95	2.05	2.13	2.35	2.44	2.56	2.69	2.82	3.08	3.78	3.75	3.69	4.04	3.86	3.64	3.13
1350	60	TC	52.5	46.3	44.4	41.9	39.2	37.0	35.4	33.4	31.6	29.0	30.6	27.1	25.4	25.4	23.4	21.4	17.0
		kW	3.15	3.09	3.06	3.02	2.95	2.83	2.82	2.81	2.81	2.75	3.42	3.31	3.23	3.63	3.50	3.27	2.80
	70	TC	42.8	41.8	41.2	40.1	38.3	36.2	34.7	32.6	30.7	28.3	29.7	26.8	25.1	24.7	22.8	21.2	16.9
		kW	2.54	2.93	3.04	3.16	3.16	3.17	3.08	3.04	3.03	2.96	3.65	3.55	3.49	3.85	3.70	3.47	2.97
	75	TC	39.4	36.3	35.9	35.1	35.8	35.2	34.1	31.9	30.5	28.0	28.9	26.9	25.0	24.5	22.6	21.0	16.7
		kW	2.39	2.53	2.64	2.73	3.01	3.12	3.19	3.16	3.16	3.09	3.78	3.69	3.71	3.95	3.79	3.56	3.07
	80	TC	32.4	30.7	30.7	30.0	30.5	30.1	29.7	29.1	29.1	27.7	28.4	26.3	24.7	24.1	22.2	20.6	16.5
		kW	1.95	2.15	2.26	2.33	2.58	2.68	2.81	2.94	3.16	3.18	3.90	3.78	3.70	4.06	3.92	3.64	3.13

Table 6

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

6.3 BPHA-60RCB-M16S for Cooling

BPHA-60RCB-M16S for Cooling																			
Indoor Airflow (SCFM)	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	
1050	32	TC	31.8	33.2	36.2	39.8	39.5	39.7	39.8	40.6	46.7	46.6	46.7	46.8	\	49.5	49.6	49.7	
		S/T	0.71	0.76	1.00	1.00	0.52	0.63	0.83	0.92	0.35	0.49	0.62	0.77	\	0.35	0.47	0.62	
		kW	1.51	1.59	1.74	1.91	1.85	1.85	1.86	1.88	2.22	2.21	2.21	2.21	\	2.56	2.55	2.55	
	65	TC	31.9	33.9	37.0	40.6	40.3	40.5	40.6	41.4	47.7	47.6	47.6	47.7	\	50.5	50.6	50.7	
		S/T	0.80	0.95	1.00	1.00	0.59	0.73	0.87	0.99	0.43	0.56	0.69	0.80	\	0.41	0.53	0.63	
		kW	1.73	1.79	1.95	2.14	2.08	2.08	2.09	2.12	2.49	2.49	2.49	2.49	\	2.87	2.87	2.86	
	75	TC	31.1	32.0	35.5	39.2	38.5	38.7	38.9	39.9	44.1	44.1	44.1	44.2	\	48.0	48.1	48.2	
		S/T	0.81	0.98	1.00	1.00	0.59	0.74	0.89	0.99	0.43	0.57	0.70	0.83	\	0.41	0.53	0.63	
		kW	1.89	1.91	2.13	2.40	2.36	2.37	2.37	2.42	2.63	2.64	2.63	2.63	\	3.18	3.17	3.16	
	85	TC	30.4	31.0	34.9	38.3	37.6	37.8	38.0	39.3	43.2	43.3	43.3	43.3	\	47.0	47.1	47.2	
		S/T	0.81	0.98	1.00	1.00	0.60	0.74	0.89	1.00	0.43	0.57	0.70	0.83	\	0.42	0.53	0.64	
		kW	2.33	2.34	2.59	2.89	2.78	2.85	2.85	2.91	3.13	3.14	3.13	3.13	\	3.64	3.63	3.63	
	95	TC	30.1	30.8	34.5	38.1	37.5	37.7	37.9	39.2	43.1	43.1	43.2	43.3	\	46.9	47.0	47.1	
		S/T	0.81	0.98	1.00	1.00	0.60	0.75	0.90	1.00	0.43	0.57	0.71	0.83	\	0.42	0.53	0.64	
		kW	2.89	3.00	3.32	3.68	3.53	3.54	3.55	3.69	3.97	3.98	3.98	3.97	\	4.59	4.58	4.58	
	105	TC	28.4	28.9	33.0	35.3	34.5	34.5	34.6	36.0	39.2	39.2	39.2	39.4	\	43.2	43.3	43.4	
		S/T	0.82	0.99	1.00	1.00	0.60	0.76	0.92	1.00	0.43	0.58	0.72	0.85	\	0.42	0.54	0.65	
		kW	3.58	3.69	3.86	4.12	4.03	4.02	4.02	4.13	4.41	4.41	4.41	4.43	\	5.31	5.20	5.20	
	115	TC	25.4	26.8	29.4	32.1	30.7	30.8	30.9	32.8	33.6	33.5	33.8	34.0	\	35.6	35.7	35.8	
		S/T	0.86	1.00	1.00	1.00	0.63	0.81	0.98	1.00	0.44	0.61	0.74	0.92	\	0.43	0.58	0.71	
		kW	3.51	3.66	3.84	4.10	3.85	3.85	3.82	4.10	4.26	4.26	4.28	4.30	\	4.56	4.50	4.57	
	120	TC	19.2	20.2	22.2	24.3	23.2	23.2	23.3	24.7	25.4	25.3	25.5	25.6	\	26.9	27.0	27.1	
		S/T	0.88	1.00	1.00	1.00	0.65	0.85	0.99	1.00	0.46	0.63	0.75	0.95	\	0.45	0.59	0.75	
		kW	2.71	2.81	2.95	3.24	2.97	2.97	2.94	3.23	3.28	3.28	3.30	3.31	\	3.51	3.39	3.44	
1200	32	TC	35.0	35.5	40.3	43.1	42.3	42.4	42.7	44.0	49.8	49.7	49.8	50.8	\	53.3	53.4	53.5	
		S/T	0.72	0.77	1.00	1.00	0.52	0.65	0.84	0.93	0.36	0.50	0.63	0.78	\	0.36	0.48	0.63	
		kW	1.88	1.90	2.16	2.32	2.26	2.27	2.28	2.33	2.70	2.70	2.70	2.81	\	3.10	3.10	3.10	
	65	TC	35.1	36.2	41.2	44.0	43.1	43.3	43.5	44.9	50.8	50.7	50.8	51.0	\	54.4	54.5	54.6	
		S/T	0.81	0.98	1.00	1.00	0.60	0.75	0.90	1.00	0.43	0.57	0.70	0.82	\	0.42	0.54	0.65	
		kW	2.12	2.13	2.42	2.61	2.54	2.55	2.56	2.62	3.04	3.04	3.03	3.15	\	3.48	3.48	3.48	
	75	TC	35.2	36.6	41.2	45.6	43.2	43.4	43.6	46.5	51.0	51.0	51.0	51.2	\	55.4	55.5	55.6	
		S/T	0.83	0.99	1.00	1.00	0.60	0.76	0.92	1.00	0.43	0.58	0.71	0.84	\	0.42	0.54	0.66	
		kW	2.34	2.45	2.74	3.15	2.89	2.90	2.91	3.14	3.43	3.43	3.43	3.43	\	3.93	3.84	3.84	
	85	TC	34.9	35.8	40.9	45.1	42.7	42.9	43.2	45.6	50.3	50.3	50.3	50.5	\	54.1	54.2	54.3	
		S/T	0.83	0.99	1.00	1.00	0.61	0.77	0.92	1.00	0.43	0.58	0.72	0.85	\	0.42	0.55	0.66	
		kW	2.84	2.88	3.28	3.72	3.44	3.45	3.47	3.66	4.05	4.06	4.06	4.06	\	4.61	4.51	4.50	
	95	TC	34.7	35.5	40.5	44.0	42.1	42.3	42.5	45.0	49.2	49.2	49.2	49.4	\	52.5	52.6	52.7	
		S/T	0.83	0.99	1.00	1.00	0.61	0.77	0.92	1.00	0.43	0.58	0.72	0.85	\	0.42	0.55	0.67	
		kW	3.46	3.51	4.00	4.46	4.17	4.19	4.20	4.47	4.90	4.91	4.90	4.91	\	5.48	5.46	5.46	
	105	TC	33.4	35.1	39.4	42.4	40.6	40.8	41.0	43.2	45.6	45.6	45.7	45.8	\	48.2	48.3	48.4	
		S/T	0.85	1.00	1.00	1.00	0.61	0.78	0.94	1.00	0.43	0.59	0.74	0.88	\	0.42	0.56	0.69	
		kW	4.12	4.36	4.84	5.23	5.01	5.03	5.05	5.23	5.47	5.47	5.48	5.48	\	5.95	5.85	5.95	
	115	TC	27.4	29.8	33.1	34.7	31.3	31.6	33.2	35.5	35.2	35.3	35.4	35.6	\	37.1	37.2	37.3	
		S/T	0.92	1.00	1.00	1.00	0.66	0.87	1.00	1.00	0.45	0.64	0.75	0.99	\	0.44	0.61	0.77	
		kW	3.83	4.06	4.34	4.44	4.19	4.22	4.35	4.43	4.47	4.47	4.47	4.43	\	4.75	4.75	4.75	
	120	TC	20.7	22.5	25.0	26.2	23.7	23.9	25.1	26.8	26.6	26.6	26.7	26.9	\	28.0	28.1	28.2	
		S/T	0.96	1.00	1.00	1.00	0.72	0.89	1.00	1.00	0.48	0.68	0.76	0.99	\	0.46	0.60	0.85	
		kW	2.95	3.12	3.35	3.42	3.23	3.25	3.35	3.41	3.44	3.44	3.44	3.41	\	3.66	3.66	3.66	
1550	32	TC	37.6	39.1	43.2	47.3	44.6	44.9	45.4	48.3	52.4	52.3	52.5	53.6	\	57.3	57.4	57.5	
		S/T	0.74	0.80	1.00	1.00	0.55	0.68	0.86	0.95	0.38	0.53	0.68	0.80	\	0.38	0.50	0.62	
		kW	2.08	2.19	2.38	2.69	2.48	2.50	2.52	2.70	2.97	2.97	2.99	3.10	\	3.51	3.52	3.60	
	65	TC	39.6	41.2	45.5	49.8	47.0	47.3	47.7	50.9	55.1	55.1	55.3	56.4	\	60.3	60.4	60.5	
		S/T	0.83	0.99	1.00	1.00	0.61	0.77	0.93	1.00	0.43	0.58	0.73	0.85	\	0.42	0.55	0.66	
		kW	2.45	2.57	2.80	3.16	2.92	2.94	2.96	3.18	3.50	3.50	3.51	3.65	\	4.13	4.14	4.24	
	75	TC	39.2	40.0	45.5	49.7	46.9	47.2	47.6	50.5	55.0	54.9	55.2	55.3	\	57.5	57.6	57.7	
		S/T	0.83	0.99	1.00	1.00	0.61	0.77	0.93	1.00	0.43	0.58	0.72	0.86	\	0.42	0.55	0.67	
		kW	2.86	2.92	3.35	3.69	3.46	3.48	3.50	3.68	4.13	4.11	4.12	4.13	\	4.44	4.43	4.44	
	85	TC	39.0	40.0	45.5	49.6	46.9	47.1	47.5	50.4	54.5	54.5	54.6	54.8	\	57.4	57.5	57.6	
		S/T	0.84	1.00	1.00	1.00	0.61	0.78	0.93	1.00	0.43	0.58	0.73	0.87	\	0.42	0.55	0.68	
		kW	3.42	3.49	3.99	4.48	4.14	4.15	4.18	4.40	4.86	4.86	4.87	4.88	\	5.32	5.30	5.32	
	95	TC	38.6	39.9	45.4	49.3	46.5	46.7	47.4	50.3	54.2	54.3	54.4	54.7	\	56.5	56.6	56.7	
		S/T	0.84	1.00	1.00	1.00	0.61	0.78	0.94	1.00	0.43	0.59	0.73	0.87	\	0.42	0.56	0.68	
		kW	4.03	4.20	4.76	5.32	4.91	4.93	5.05	5.33	5.84	5.83	5.84	5.84	\	6.20	6.30	6.29	
	105	TC	36.4	38.8	43.7	46.1	43.8	43.9	44.5	47.0	47.7	47.7	48.3	48.2	\	49.9	50.0	50.1	
		S/T	0.87	1.00	1.00	1.00	0.62	0.80	0.97	1.00	0.44	0.61	0.73	0.92	\	0.43	0.58	0.73	
		kW	4.67	4.98	5.61	5.86	5.65	5.66	5.70	5.86	5.89	5.87	5.98	5.93	\	6.09	6.09	6.09	
	115	TC	28.2	31.4	35.0	37.7	32.2	32.6	35.0	38.6	36.6	36.9	37.1	38.5	\	40.7	40.9	41.1	
		S/T	0.96	1.00	1.00	1.00	0.68	0.92	1.00	1.00	0.45	0.66	0.73	1.00	\	0.45	0.64	0.82	
		kW	4.04	4.32	4.64	4.95	4.40	4.43	4.64	4.95	4.79	4.81	4.81	4.94	\	5.07	5.07	5.07	
	120	TC	21.3	23.7	26.4	28.5	24.3	24.6	26.4	29.1	27.7	27.8	28.0	29.1	\	30.7	30.9	31.0	
		S/T	0.98	1.00	1.00	1.00	0.76	0.94	1.00	1.00	0.50	0.71	0.78	1.00	\	0.48	0.68	0.90	
		kW	3.11	3.33	3.57	3.81	3.39	3.41	3.57	3.81	3.69	3.70	3.71	3.80	\	3.90	3.90	3.90	

Table 7

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

BPHA-36RCB-M16S For Cooling																		
Indoor Airflow (SCFM)	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
1720	32	TC	40.4	42.2	47.8	52.0	48.8	49.1	50.1	53.1	57.6	57.6	57.8	58.1	\	61.3	61.4	61.5
		S/T	0.76	0.82	1.00	1.00	0.58	0.72	0.90	0.97	0.41	0.55	0.70	0.83	\	0.40	0.53	0.65
		kW	2.20	2.29	2.60	2.95	2.69	2.70	2.78	2.95	3.31	3.31	3.32	3.34	\	3.66	3.65	3.67
	65	TC	41.3	43.2	49.2	53.6	49.8	50.1	51.2	54.8	59.4	59.4	59.6	59.8	\	62.6	62.7	62.8
		S/T	0.84	1.00	1.00	1.00	0.61	0.78	0.94	1.00	0.43	0.58	0.73	0.87	\	0.42	0.55	0.68
		kW	2.74	2.86	3.25	3.69	3.36	3.37	3.48	3.68	4.13	4.14	4.15	4.17	\	4.58	4.57	4.59
	75	TC	41.1	43.1	49.1	53.5	49.6	49.9	51.0	54.6	59.3	59.2	59.5	59.7	\	61.4	61.5	61.6
		S/T	0.85	1.00	1.00	1.00	0.61	0.79	0.94	1.00	0.43	0.58	0.73	0.87	\	0.42	0.56	0.68
		kW	3.19	3.40	3.76	4.32	3.87	3.89	4.00	4.32	4.82	4.80	4.82	4.84	\	5.14	5.03	5.03
	85	TC	41.0	43.1	49.0	53.4	49.3	49.6	50.8	54.6	58.4	58.5	58.7	58.8	\	60.5	60.6	60.7
		S/T	0.85	1.00	1.00	1.00	0.62	0.79	0.95	1.00	0.43	0.59	0.73	0.88	\	0.42	0.56	0.69
		kW	3.76	3.94	4.51	5.12	4.57	4.58	4.74	5.12	5.56	5.58	5.58	5.58	\	5.94	5.81	5.81
	95	TC	40.6	42.5	48.4	53.1	49.0	49.2	49.8	54.3	56.9	56.9	57.0	57.3	\	58.9	59.0	59.1
		S/T	0.86	1.00	1.00	1.00	0.62	0.80	0.96	1.00	0.43	0.60	0.73	0.89	\	0.42	0.57	0.71
		kW	4.41	4.57	5.29	6.04	5.40	5.43	5.48	6.05	6.32	6.32	6.33	6.35	\	6.45	6.31	6.31
	105	TC	38.3	41.1	45.5	47.7	44.4	44.5	45.7	48.7	48.7	48.8	49.0	49.4	\	52.7	52.9	52.9
		S/T	0.89	1.00	1.00	1.00	0.64	0.84	0.99	1.00	0.44	0.62	0.73	0.96	\	0.43	0.60	0.76
		kW	5.10	5.44	5.95	6.13	5.81	5.82	5.96	6.13	6.15	6.14	6.16	6.17	\	6.33	6.33	6.32
	115	TC	29.0	32.6	36.4	38.4	33.0	33.3	36.4	39.2	37.0	37.2	37.7	39.2	\	40.8	41.1	41.2
		S/T	0.99	1.00	1.00	1.00	0.70	0.95	1.00	1.00	0.46	0.69	0.73	1.00	\	0.45	0.66	0.86
		kW	4.28	4.59	4.92	5.09	4.63	4.65	4.92	5.09	4.96	4.98	5.04	5.09	\	5.14	5.19	5.20
	120	TC	21.9	24.6	27.5	29.0	24.9	25.2	27.5	29.6	27.9	28.1	28.5	29.6	\	30.9	31.0	31.1
		S/T	0.99	1.00	1.00	1.00	0.84	0.96	1.00	1.00	0.56	0.75	0.80	1.00	\	0.50	0.73	0.95
		kW	3.30	3.54	3.79	3.92	3.57	3.58	3.79	3.92	3.82	3.83	3.88	3.92	\	3.96	4.00	4.00
2000	32	TC	41.3	43.5	49.3	54.2	49.6	50.2	51.2	55.2	58.5	58.6	58.9	59.1	\	65.2	65.3	65.4
		S/T	0.80	0.85	1.00	1.00	0.60	0.75	0.93	0.98	0.42	0.57	0.72	0.86	\	0.41	0.54	0.66
		kW	2.30	2.41	2.74	3.25	2.85	2.88	2.97	3.24	3.41	3.41	3.43	3.43	\	3.75	3.67	3.67
	65	TC	43.5	46.0	52.5	57.2	52.2	52.8	53.9	58.3	61.9	62.0	62.2	62.6	\	68.6	68.7	68.8
		S/T	0.86	1.00	1.00	1.00	0.62	0.80	0.96	1.00	0.43	0.59	0.73	0.89	\	0.42	0.56	0.69
		kW	2.87	3.02	3.42	4.06	3.56	3.60	3.71	4.05	4.26	4.27	4.29	4.29	\	4.68	4.58	4.59
	75	TC	43.3	45.9	52.3	57.1	52.0	52.4	53.7	58.2	61.9	62.0	62.2	62.5	\	67.0	67.1	67.2
		S/T	0.86	1.00	1.00	1.00	0.62	0.80	0.96	1.00	0.43	0.59	0.73	0.89	\	0.42	0.57	0.70
		kW	3.36	3.54	4.07	4.61	4.05	4.08	4.22	4.62	5.02	5.03	5.05	5.05	\	5.26	5.16	5.15
	85	TC	43.1	45.3	52.0	57.0	51.9	52.2	53.0	58.1	60.2	60.3	60.5	60.8	\	64.5	64.6	64.7
		S/T	0.87	1.00	1.00	1.00	0.62	0.81	0.97	1.00	0.43	0.60	0.73	0.90	\	0.42	0.57	0.71
		kW	3.91	4.07	4.76	5.45	4.80	4.82	4.89	5.45	5.63	5.64	5.65	5.67	\	5.99	5.86	5.87
	95	TC	41.9	45.0	51.4	55.2	50.2	50.5	52.0	56.3	58.2	58.3	58.4	58.6	\	61.2	61.3	61.4
		S/T	0.89	1.00	1.00	1.00	0.63	0.82	0.98	1.00	0.43	0.61	0.73	0.92	\	0.43	0.59	0.73
		kW	4.71	5.04	5.81	6.15	5.69	5.71	5.91	6.40	6.65	6.65	6.65	6.66	\	6.75	6.75	6.76
	105	TC	39.2	42.9	46.6	48.7	45.1	45.3	46.6	49.8	48.9	49.1	49.3	50.0	\	52.6	52.7	52.8
		S/T	0.91	1.00	1.00	1.00	0.65	0.87	1.00	1.00	0.44	0.64	0.73	0.99	\	0.44	0.62	0.79
		kW	5.37	5.85	6.12	6.29	6.05	6.05	6.12	6.29	6.27	6.27	6.28	6.32	\	6.42	6.42	6.43
	115	TC	29.5	33.4	37.2	39.5	33.0	34.0	37.2	40.3	37.1	37.5	37.9	39.9	\	40.9	41.4	41.3
		S/T	0.99	1.00	1.00	1.00	0.73	0.98	1.00	1.00	0.46	0.71	0.73	1.00	\	0.46	0.69	0.90
		kW	4.47	4.80	5.13	5.32	4.78	4.89	5.13	5.32	5.14	5.16	5.17	5.23	\	5.26	5.32	5.32
	120	TC	25.1	28.4	31.7	33.6	28.0	28.9	31.6	34.3	31.6	31.9	32.2	34.0	\	34.5	34.8	35.1
		S/T	0.99	1.00	1.00	1.00	0.84	0.98	1.00	1.00	0.56	0.75	0.80	1.00	\	0.51	0.76	0.97
		kW	3.44	3.69	3.95	4.10	3.68	3.77	3.95	4.10	3.96	3.97	3.98	4.03	\	4.05	4.10	4.22

Table 8

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

6.4 BPHA-60RCB-M16S for Heating

BPHA-60RCB-M16S for Heating																			
Airflow (SCFM)	ID(°F)	OD(°F)	86	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2	-4
1050	60	TC	53.3	53.3	53.2	53.2	52.5	52.4	52.2	51.3	49.8	46.1	48.0	45.8	40.0	42.5	38.5	35.6	30.6
		kW	2.46	3.09	3.28	3.56	3.75	4.07	4.25	4.30	4.32	4.23	5.18	5.03	4.89	5.72	5.62	5.43	4.9
	70	TC	42.2	42.1	41.7	41.2	40.9	40.6	40.2	39.6	40.1	40.4	40.6	38.4	36.2	36.9	36.1	34.0	29.5
		kW	2.12	2.44	2.52	2.73	2.92	3.16	3.29	3.50	3.73	4.12	4.32	4.61	4.92	5.26	5.74	5.61	5.2
	75	TC	35.9	35.5	35.1	34.9	34.7	34.6	34.3	34.1	34.7	34.6	35.3	33.6	31.4	31.9	30.6	30.3	24.8
		kW	1.85	2.22	2.30	2.36	2.57	2.72	2.99	3.08	3.27	3.61	3.74	4.09	4.33	4.50	4.80	5.23	4.7
	80	TC	31.9	30.8	29.8	29.3	29.0	28.6	28.4	28.1	29.0	28.9	30.0	29.0	26.5	26.8	25.4	25.4	20.8
		kW	1.66	1.92	2.01	2.09	2.26	2.35	2.50	2.60	2.85	3.14	3.25	3.53	3.72	3.83	4.02	4.30	3.9
1200	60	TC	61.1	60.9	59.7	59.0	58.4	58.0	57.4	54.0	50.2	46.5	49.1	46.6	40.6	43.0	39.5	35.7	30.7
		kW	3.16	3.91	4.06	4.32	4.69	4.72	4.75	4.56	4.40	4.30	5.29	5.15	5.04	5.88	5.73	5.52	5.0
	70	TC	50.2	49.6	48.8	48.3	48.0	47.6	47.2	47.0	46.5	45.0	45.8	44.9	40.0	42.2	39.1	34.9	30.0
		kW	2.57	2.95	3.08	3.26	3.60	3.82	3.95	4.26	4.54	4.58	5.24	5.52	5.39	6.21	6.02	5.85	5.3
	75	TC	43.1	42.2	41.8	41.2	40.8	40.0	39.8	39.5	39.8	39.2	41.9	39.3	36.5	37.8	36.5	34.9	28.6
		kW	2.24	2.58	2.69	2.95	3.13	3.30	3.47	3.68	3.92	4.33	4.48	4.83	5.06	5.48	5.93	6.00	5.4
	80	TC	37.0	36.9	35.4	35.2	35.0	34.8	34.3	33.9	33.8	33.2	35.2	34.4	31.1	31.6	30.4	30.1	24.7
		kW	2.01	2.22	2.29	2.42	2.66	2.80	3.02	3.19	3.37	3.72	3.90	4.17	4.37	4.53	4.84	5.16	4.6
1550	60	TC	63.5	63.2	62.3	61.9	61.6	61.2	58.0	54.3	50.7	46.8	50.3	46.8	40.9	43.1	39.9	35.8	30.8
		kW	3.75	4.61	4.73	4.96	4.85	4.81	4.76	4.57	4.43	4.31	5.35	5.26	5.08	6.02	5.77	5.56	5.0
	70	TC	53.3	52.8	52.6	52.8	52.7	52.6	52.3	51.2	49.6	45.7	48.1	45.3	40.1	42.5	39.4	35.3	30.3
		kW	2.92	3.34	3.60	3.84	4.16	4.40	4.52	4.93	4.77	4.62	5.70	5.60	5.45	6.47	6.16	5.91	5.3
	75	TC	47.0	47.5	47.0	46.4	46.3	46.0	45.6	45.2	45.1	44.8	45.9	43.9	40.0	41.9	39.1	35.2	28.9
		kW	2.66	3.05	3.11	3.28	3.55	3.73	4.01	4.23	4.49	4.78	5.03	5.50	5.66	6.28	6.39	6.12	5.5
	80	TC	40.9	40.6	40.6	40.0	39.7	39.5	39.0	38.6	38.3	38.0	38.9	38.4	34.4	35.4	34.0	33.6	27.5
		kW	2.33	2.52	2.62	2.75	3.12	3.24	3.42	3.62	3.76	4.15	4.35	4.70	4.86	5.16	5.55	5.90	5.3
1720	60	TC	67.7	66.7	64.9	63.3	62.7	61.6	58.3	54.6	51.0	47.0	50.4	47.0	40.9	43.2	40.1	36.6	31.0
		kW	4.30	5.24	5.21	5.05	4.93	4.88	4.77	4.59	4.46	4.35	5.39	5.31	5.13	6.08	5.85	5.62	5.1
	70	TC	57.5	57.4	57.1	57.0	56.8	56.4	56.2	53.5	49.9	46.2	48.6	46.4	40.6	42.7	39.5	36.1	30.5
		kW	3.30	3.81	4.02	4.29	4.65	4.89	4.96	4.95	4.79	4.66	5.75	5.66	5.46	6.48	6.21	5.95	5.4
	75	TC	51.0	50.5	50.3	49.9	49.8	49.7	49.5	49.0	49.0	46.0	47.2	46.0	40.2	42.1	39.1	35.9	29.4
		kW	2.90	3.28	3.45	3.64	3.93	4.14	4.44	4.68	4.94	4.84	5.80	5.70	5.67	6.70	6.44	6.17	5.6
	80	TC	44.1	43.6	43.8	43.3	42.9	42.8	42.3	42.0	41.6	41.2	43.1	40.6	37.0	38.2	36.5	35.7	29.2
		kW	2.57	2.81	2.90	3.14	3.44	3.58	3.75	3.96	4.17	4.60	4.73	5.05	5.33	5.69	6.07	6.35	5.7
2000	60	TC	70.2	68.7	66.1	64.3	63.0	61.8	58.5	54.9	51.3	47.3	51.0	47.3	42.8	45.4	43.6	39.3	34.2
		kW	4.85	5.37	5.28	5.09	4.96	4.91	4.80	4.62	4.50	4.41	5.48	5.33	5.20	6.13	5.91	5.69	5.1
	70	TC	61.5	60.8	60.6	60.5	60.4	59.3	57.6	53.9	50.2	46.5	48.9	46.7	41.2	44.8	43.5	39.1	33.8
		kW	3.67	4.20	4.42	4.67	5.13	5.21	4.99	4.97	4.83	4.71	5.79	5.69	5.68	6.51	6.26	6.00	5.36
	75	TC	54.1	53.8	53.4	53.0	52.9	52.5	52.5	51.2	49.7	46.1	48.2	46.5	40.9	44.6	41.1	38.1	31.3
		kW	3.19	3.58	3.74	3.95	4.36	4.59	4.89	5.14	5.01	4.87	5.94	5.91	5.72	6.71	6.48	6.18	5.6
	80	TC	46.3	46.0	45.8	45.1	44.9	44.8	44.1	43.8	43.7	43.0	44.0	43.4	40.3	42.1	40.3	37.5	30.8
		kW	2.78	3.07	3.25	3.40	3.70	3.85	4.14	4.28	4.50	4.95	5.15	5.46	5.91	6.20	6.58	6.43	5.8

Table 9

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

7 Airflow Performance

Airflow performance data is based on cooling performance with a coil and no filter in place. Check the performance table (Table 3) 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.

For instructions on how to select fan speeds, refer to section "6 Extended Performance Data" on page 9 of this manual.

Model Number	Motor Speed		SCFM								
			External Static Pressure-Inches W.C.[kPa]								
			0[0]	0.1[.02]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]
3 ton	1	SCFM	986	941	891	844	800	747.2	689	/	/
		Watts	108	118	128	139	149	159	169	/	/
		Amps	1.2	1.26	1.32	1.39	1.45	1.52	1.58	/	/
	2	SCFM	1098.7	1047.6	1003.4	965.8	931.2	897.1	864.1	814.9	745.3
		Watts	151	165	177	188	199	208	217	228	236
		Amps	1.47	1.56	1.65	1.72	1.8	1.86	1.92	2	2.07
	3	SCFM	1239.6	1194	1150.8	1114.9	1080.9	1048.5	1016.1	996.3	959.4
		Watts	204	220	234	248	259	270	281	288	299
		Amps	1.83	1.94	2.04	2.13	2.21	2.29	2.37	2.41	2.49
	4	SCFM	1378.8	1335.2	1292.9	1256.6	1223.9	1193.7	1164.7	1134.7	1104.2
		Watts	273	289	305	319	333	345	357	369	379
		Amps	2.31	2.43	2.53	2.64	2.74	2.82	2.9	2.99	3.06
	5	SCFM	1539.3	1501.9	1459.8	1424.4	1393.5	1363.8	1326.8	1278.9	1231
		Watts	370	389	407	425	441	457	463	461	459
		Amps	2.99	3.12	3.25	3.37	3.49	3.6	3.64	3.63	3.61
5 ton	1	SCFM	1442.8	1375.6	1307.9	1245.6	1184.3	1114.8	1044	/	/
		Watts	159	169	179	189	199	210	221	/	/
		Amps	1.35	1.43	1.5	1.58	1.65	1.74	1.82	/	/
	2	SCFM	1518.7	1450.1	1384.3	1328.4	1271.3	1216.9	1160.7	/	/
		Watts	185	198	211	223	234	244	255	/	/
		Amps	1.65	1.74	1.84	1.92	2	2.07	2.14	/	/
	3	SCFM	1849	1781.7	1721.9	1664	1615	1560	1513	1463	1410
		Watts	311	325	340	356	370	382	394	406	418
		Amps	2.56	2.66	2.76	2.87	2.97	3.06	3.15	3.23	3.32
	4	SCFM	2037	1980	1925	1874	1829	1786	1733	1685	1642
		Watts	407	425	443	460	477	493	508	523	536
		Amps	3.25	3.37	3.5	3.62	3.74	3.85	3.95	4.05	4.14
	5	SCFM	2272	2220	2166	2123	2071	2020	1977	1942	1881
		Watts	564	581	599	617	636	654	671	687	694
		Amps	4.34	4.46	4.58	4.7	4.83	4.96	5.08	5.18	5.23

Table 10

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

1 Silent Mode --- low stage speed.

2 Factory Default --- low stage speed.

3 Silent Mode --- high stage speed. Or High Static Pressure Mode --- low stage speed.

4 Factory Default --- high stage speed.

5 High Static Pressure Mode --- high stage speed.

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].
7. Factory Default maximum static pressure 0.6 inches W.C. If static pressure exceeds 0.6 inches W.C. please dial code to Tap (5).

8 Sound Data

Size (Tons)	Mode	SoundPower Level [dB(A)]	Full Octave Linear Sound Power Level dB-Center Frequency-Hz								
			100	125	250	500	1000	2000	4000	8000	10000
36 (3)	Cooling	64.2 (Low)	47.1	48.8	51.4	54.8	52.6	48.3	50.9	41.9	44.9
		79.6 (Rated)	64.9	59.7	66.3	69.0	68.4	64.5	63.2	55.4	52.4
		79.8 (High)	64.9	59.8	66.0	69.0	68.4	65.2	62.8	56.9	54.6
	Heating	64.7 (Low)	47.5	47.6	51.6	54.9	52.2	48.0	50.8	42.1	46.2
		80.3 (Rated)	70.3	59.1	66.8	69.4	68.8	65.4	64.3	57.0	54.2
		80.8 (High)	73.2	59.2	66.7	69.5	69.2	65.1	65.1	56.1	53.1
60 (5)	Cooling	75.6 (Low)	69.0	58.7	58.5	64.5	64.4	61.9	58.6	54.6	54.1
		77.7 (Rated)	66.8	54.5	59.2	63.6	63.7	66.9	71.6	61.2	58.9
		79.1 (High)	66.6	54.4	59.2	63.8	63.7	67.4	75.4	61.3	58.9
	Heating	68.1 (Low)	50.4	50.5	54.3	57.0	57.4	54.9	51.3	46.3	46.1
		77.2 (Rated)	67.0	55.5	60.9	67.1	66.3	65.0	66.2	54.5	53.8
		80.9 (High)	73.1	57.0	62.4	67.1	65.6	71.0	71.2	60.7	61.4

Table 11 IDP Sound power level

9 Electrical Data

Size (Tons)	Voltage - Phase - Frequency	Compressors (each)	OD Fan Motors (each)	Supply Blower Motor	Unit Circuit	
		RLA	FLA	FLA	MCA[1] [A]	Max Fuse[2]/ Breaker[3] Size [A]
60 (5.0)	208/230-1-60	17A	2.1A	4.3A	27.7	35
36 (3.0)	208/230-1-60	27.5A	2.1A	6.0A	42.5	50

Table 12 Electrical Data Without Electric Heat

Size (Tons)	Dual Point Heater Circuit (without units)					
	Model	[kW] 208/240V	Stages	FLA [A] 204/240V	MCA[1] [A] 208/240V	Max Fuse[2]/ Breaker[3] Size [A]* 208/240V
36 (3)	EHK-05J	3.8/5	1	18.1/20.8	23/26	25/30
	EHK-08J	5.6/7.5	1	27.1/31.3	34/40	35/40
	EHK-10J	7.5/10	1	36.1/41.7	46/53	50/60
	EHK-15J	11.3/15	2	54.2/62.5	68/79	70/80
60 (5)	EHK-05J	3.8/5	1	18.1/20.8	23/26	25/30
	EHK-08J	5.6/7.5	1	27.1/31.3	34/40	35/40
	EHK-10J	7.5/10	1	36.1/41.7	46/53	50/60
	EHK-15J	11.3/15	2	54.2/62.5	68/79	70/80
	EHK-20J	15/20	2	72.2/83.3	91/105	100/110

Table 13 Electrical Data With Electric Heat

[1] Minimum Circuit Ampacity.

[2] Maximum Over Current 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.

10 Dimensions

10.1 3 Ton Model

10.1.1 Unit Dimensions

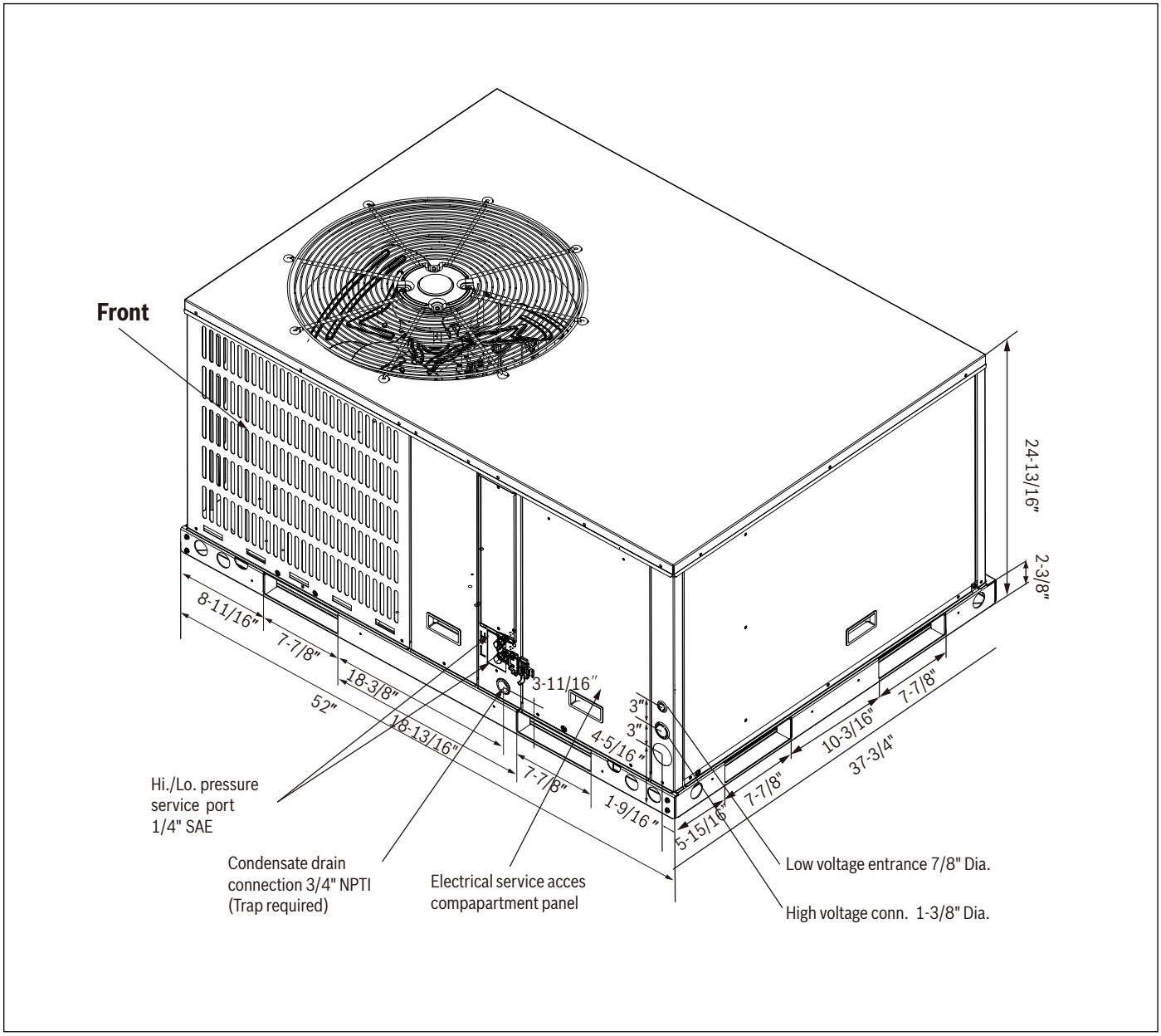


Figure 3

Heat Pump Model	L	W	H
3 Ton Model	52"	37-3/4"	24-13/16"

Table 14 3 Ton Unit Dimensions

Heat Pump Model	Net Weight	Gross Weight
3 Ton Model	316 lbs (143 kg)	322 lbs (146 kg)

Table 15 3 Ton Unit Weights

10.1.2 Dimensions - Back and Bottom

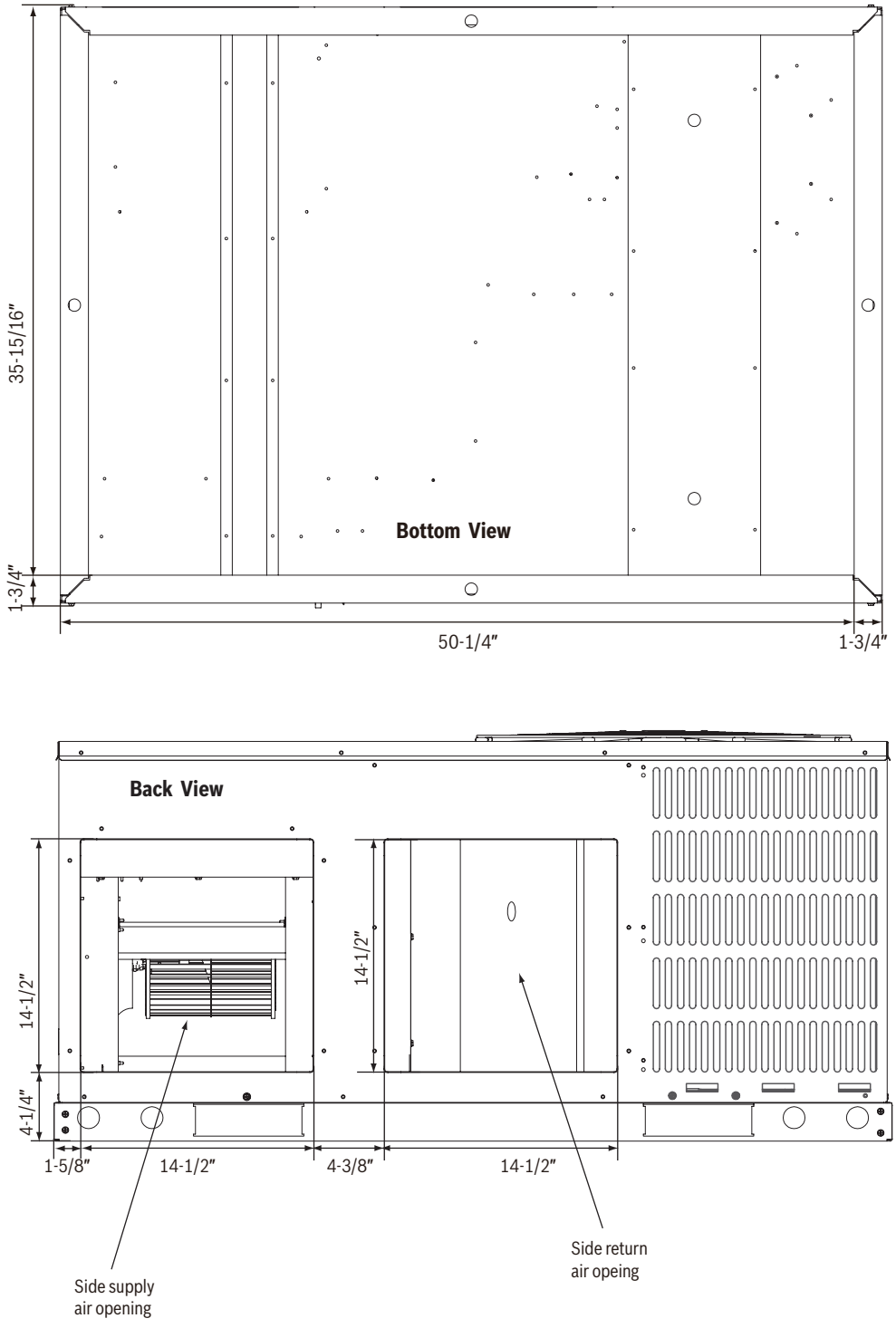
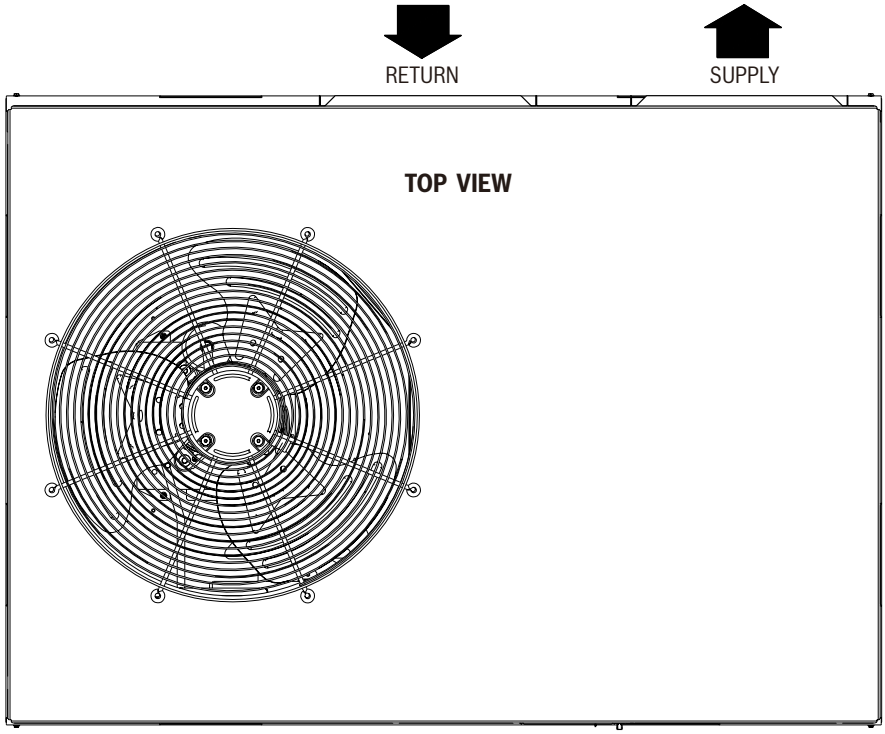


Figure 4

10.1.3 Dimensions - Left and Top



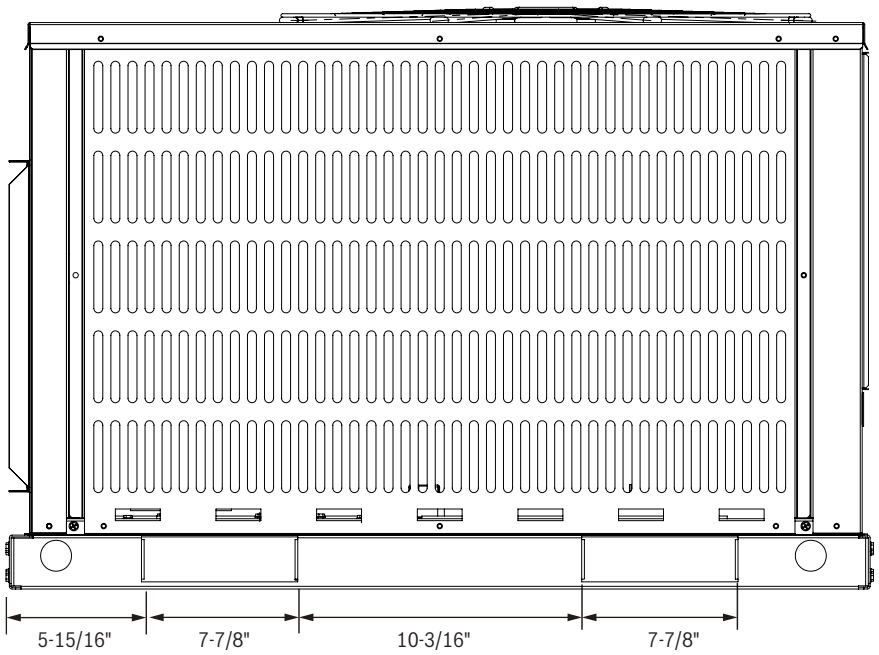


Figure 5

10.2 5 Ton Model

10.2.1 Unit Dimensions

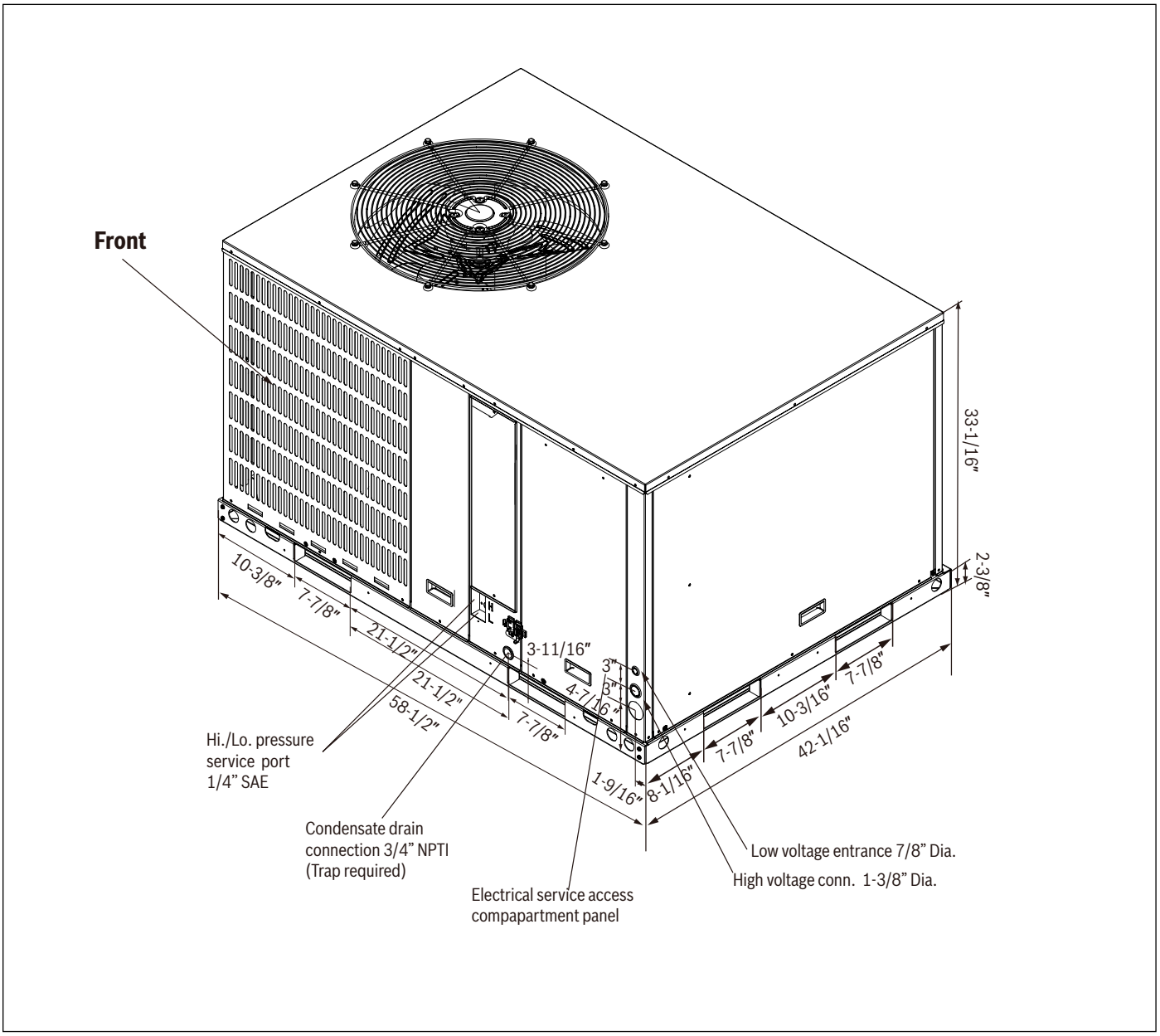


Figure 6

Heat Pump Model	L	W	H
5 Ton Model	58-1/2"	42-1/16"	33-1/16"

Table 16 5 Ton Unit Dimensions

Heat Pump Model	Net Weight	Gross Weight
5 Ton Model	419 lbs (190 kg)	428 lbs (194 kg)

Table 17 5 Ton Unit Weights

10.2.2 Dimensions - Back and Bottom

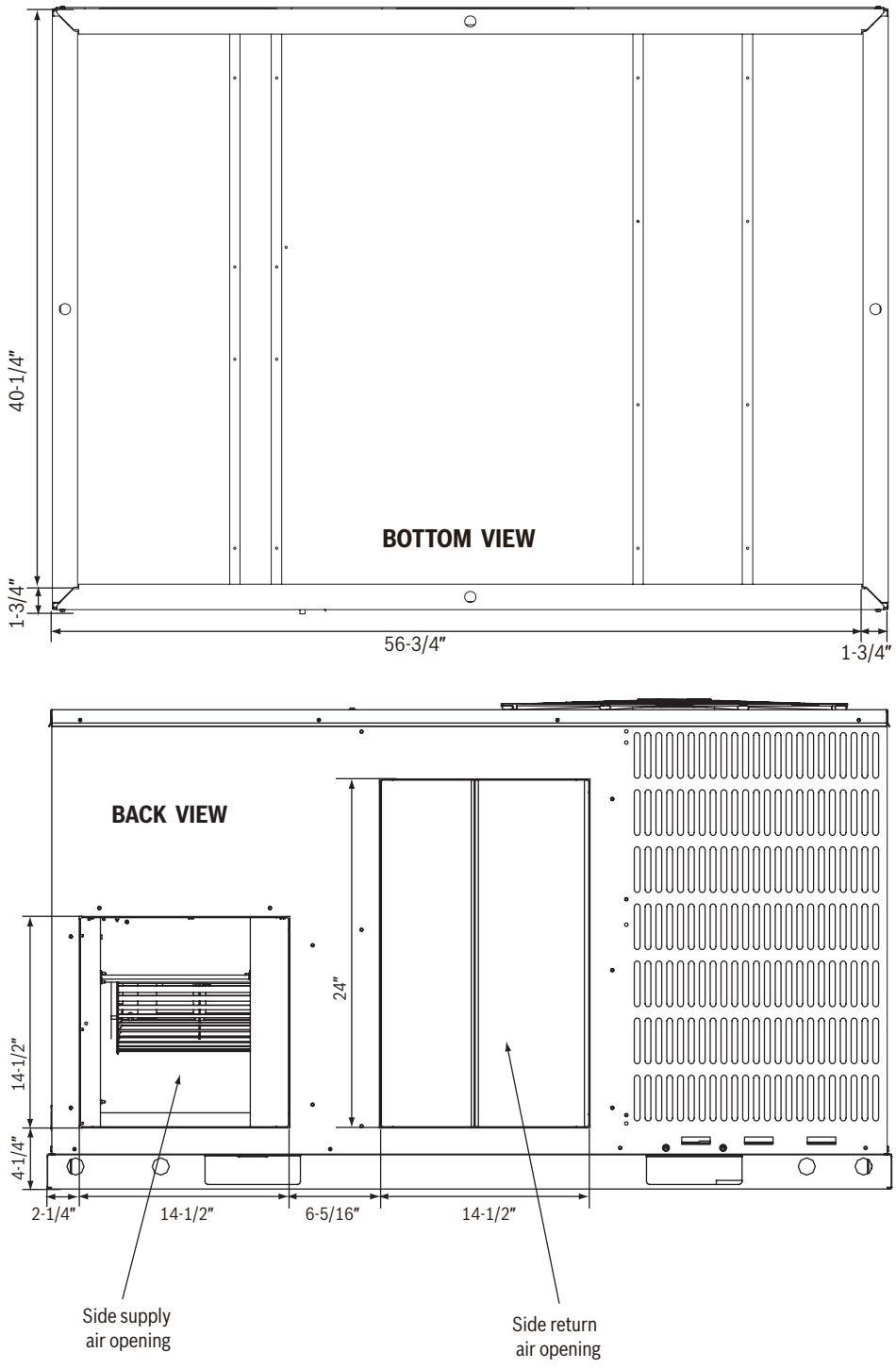


Figure 7

10.2.3 Dimensions - Left and Top

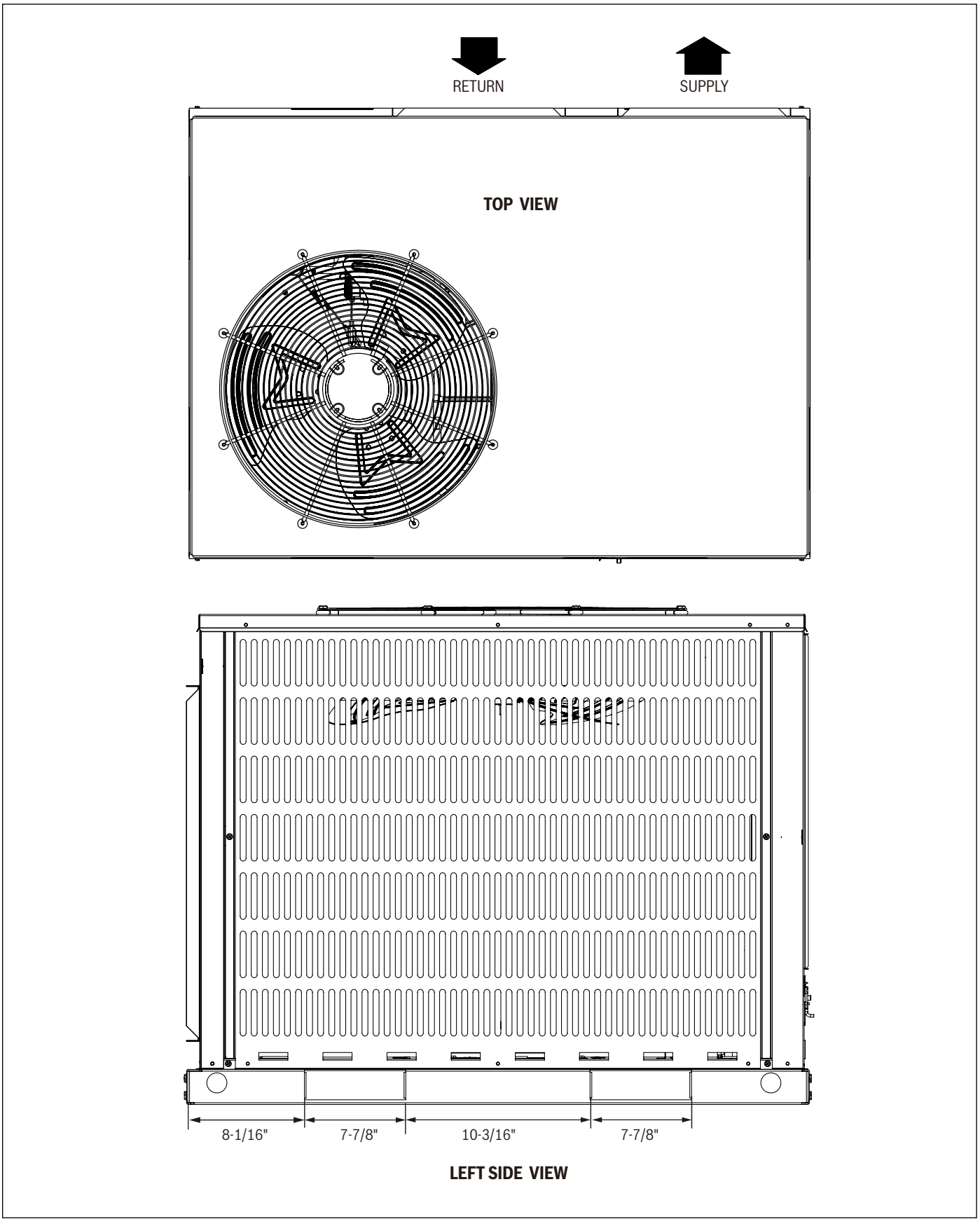


Figure 8

11 Wiring Diagram

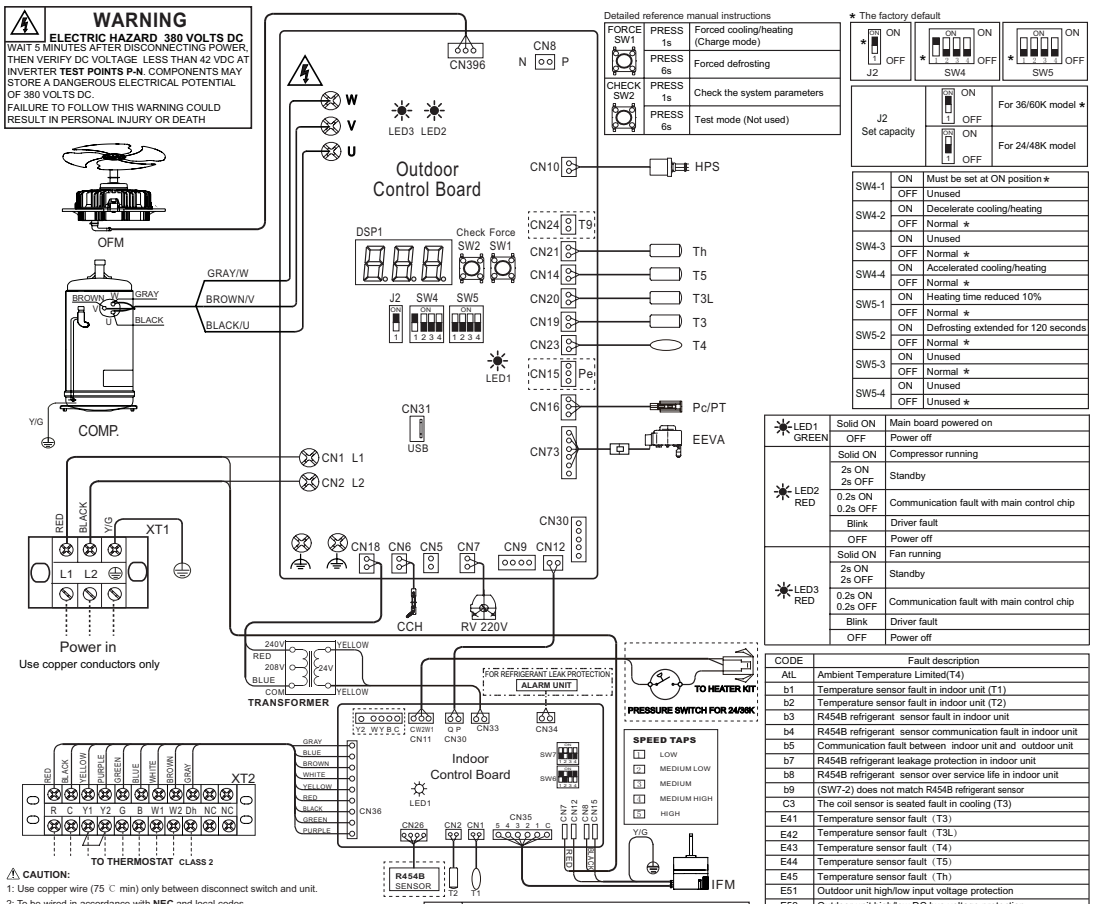


Figure 9

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