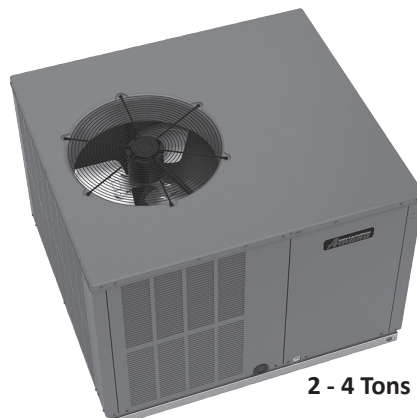
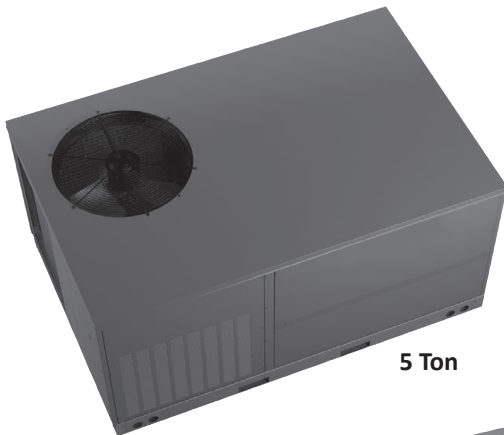


**HIGH-EFFICIENCY  
 PACKAGED HEAT PUMP  
 15.2 SEER2 / 6.7 HSPF2  
 2 TO 5 TONS**



**Contents**

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**Standard Features**

- High-efficiency two-stage scroll compressor
- Variable-speed ECM indoor blower motor  
2 to 4-ton units
- Multi-speed ECM indoor blower motor 5-ton units
- Convertible airflow: horizontal or downflow
- Copper tube / aluminum fin condenser coils
- Compressor sound blanket
- All-aluminum evaporator coil on 2- to 4-ton units
- Aluminum-copper evaporator coil on 5-ton units
- Electric heat kit available as a field-installed option
- AHRI Certified; ETL Listed

**Cabinet Features**

- Heavy-gauge galvanized-steel cabinet with attractive two-tone Architectural Gray powder-paint finish
- Aluminum foil-facing internal insulation reinforced with fiberglass scrim
- Fully insulated air-handling compartment with convenient access panels
- Louvered condenser coil protection
- Meets cabinet air leakage requirements when tested in accordance with ASHRAE standard 193
- When properly anchored, meets the 2020 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available)

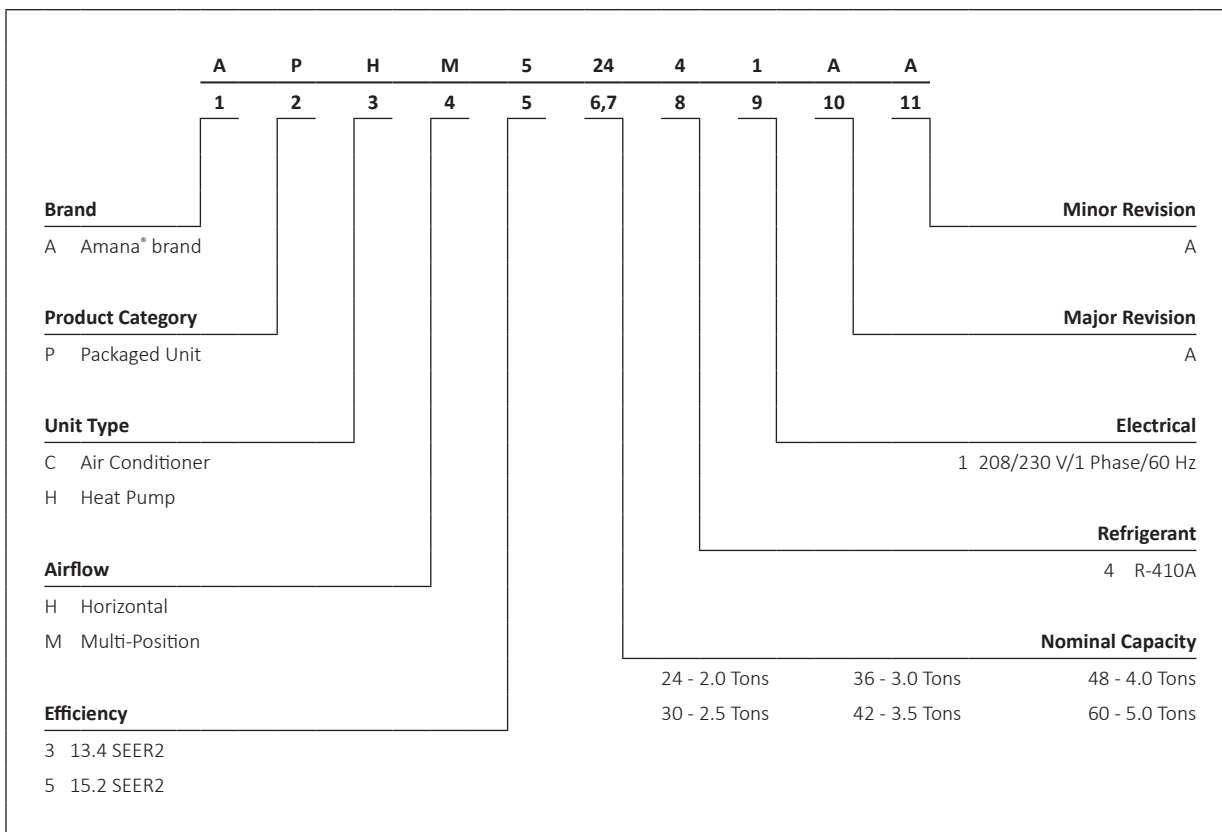


COMPANY WITH  
 QUALITY SYSTEM  
 CERTIFIED BY DNV GL  
 ■ ISO 9001 ■

COMPANY WITH  
 ENVIRONMENTAL SYSTEM  
 CERTIFIED BY DNV GL  
 ■ ISO 14001 ■

\* Complete warranty details available from your local dealer or at [www.amana-hac.com](http://www.amana-hac.com). To receive the Lifetime Compressor Limited Warranty (good for as long as you own your home) and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. The duration of warranty coverages in Texas differs in some cases.

NOMENCLATURE



	APHM52441** + OTHPPKG	APHM5 3041**	APHM5 3641**	APHM5 4241**	APHM5 4841**	APHM5 6041**
<b>COOLING CAPACITY</b>						
Total BTU/h	24,000	29,600	34,000	40,500	46,500	56,500
Sensible BTU/h	18,400	22,800	26,000	30,000	36,000	44,000
SEER2 / EER2	15.2 / 11.4	15.2 / 11.4	15.2 / 11.4	15.2 / 11.4	15.2 / 11.2	15.2 / 11.2
AHRI #s	210288035	210288036	210288037	210288038	210288039	210288040
<b>HEATING CAPACITY</b>						
BTU/h (47°F)	22,800	28,600	33,800	38,500	44,500	58,500
C.O.P (47°F)	3.68	3.45	3.70	3.60	3.53	3.73
BTU/h (17°F)	11,200	16,200	19,600	22,000	25,500	32,000
C.O.P (17°F)	1.95	2.23	2.28	2.15	2.23	2.45
HSPF2	6.70	6.70	6.80	6.80	6.80	6.80
<b>EVAPORATOR MOTOR</b>						
Type	ECM	ECM	ECM	ECM	ECM	ECM
Wheel (D x W)	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9	11 x 10
Nominal Cooling CFM	850	1050	1200	1300	1600	2000
No. of Speeds	Variable	Variable	Variable	Variable	Variable	5
Horsepower - RPM	½ -1,050	½ -1,050	½ -1,050	¾ - 1,050	¾ - 1,050	1 - 1,200
<b>EVAPORATOR COIL</b>						
Face Area (ft <sup>2</sup> )	4.55	4.55	6.2	6.2	6.2	9.16
Rows Deep	4	4	4	4	4	4
Fin per Inch	14	14	14	14	14	16
Metering Device Type	TXV	TXV	TXV	TXV	TXV	TXV
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
Refrigerant Charge (oz.)	147	150	165	170	170	225
<b>CONDENSER FAN</b>						
Horsepower - RPM	¼ - 830	¼ - 830	¼ - 1,075	¼ - 1,075	¼ - 1,075	⅓ - 1,090
Fan Diameter	22	22	22	22	22	22
# Fan Blades	3	3	3	3	3	3
<b>CONDENSER COIL</b>						
Face Area (ft <sup>2</sup> )	15.24	15.24	19.05	19.05	19.05	19.01
Rows Deep	2	2	2	2	2	2
Fin per Inch	16	16	16	16	16	16
Metering Device Type	TXV	TXV	TXV	TXV	TXV	TXV
<b>COMPRESSOR</b>						
Quantity	1	1	1	1	1	1
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Stage	Two	Two	Two	Two	Two	Two
<b>SOUND POWER</b>						
dBA	76	76	76	78	78	78
<b>ELECTRICAL DATA</b>						
Compressor RLA/ LRA	10.9 / 61.0	13.1 / 73	14.1 / 84.2	19.9 / 150.7	21.2 / 104	22.9 / 147.2
Voltage/ Phase (60 Hz)	208-230/ 1	208-230/ 1	208-230/ 1	208-230/ 1	208-230/ 1	208-230/ 1
Indoor Blower FLA	4.3	4.3	4.3	6.8	6.8	6.9
Outdoor Fan FLA	1.3	1.3	1.4	1.4	1.4	3.5
Min. Circuit Ampacity <sup>1</sup>	19.2	22	23.3	33.1	34.7	39
Max. Overcurrent Protection <sup>2</sup>	30	35	35	50	50	60
<b>SHIPPING WEIGHT (LBS)</b>						
	376	385	492	492	492	688

<sup>1</sup> Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

<sup>2</sup> Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

<sup>3</sup> Factory setting

**Note:** 1) Always check the S&R plate for electrical data on the unit being installed.

2) "OTHPPKG" stands for Outdoor Thermostat Heat-Pump Package





EXPANDED COOLING DATA — APHM52441\*\* (LOW STAGE)

IDB		OUTDOOR AMBIENT TEMPERATURE																																							
		65°F					75°F					85°F					95°F					105°F					115°F														
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	85	59	63	67	71	95	59	63	67	71	105	59	63	67	71	115										
70	MBh	17.5	17.7	18.2	-	17.3	17.6	18.1	-	16.9	17.1	17.6	-	16.1	16.3	16.8	-	15.1	15.4	15.9	-	14.2	14.5	15.0	-	15.1	15.4	15.9	-	14.2	14.5	15.0	-	15.1	15.4	15.9	-	14.2	14.5	15.0	-
	S/T	0.60	0.52	0.38	-	0.60	0.52	0.38	-	1.00	0.55	0.41	-	1.00	0.57	0.43	-	1.00	0.59	0.45	-	1.00	1.00	0.51	-	1.00	0.59	0.45	-	1.00	1.00	0.51	-	1.00	0.59	0.45	-	1.00	1.00	0.51	-
	ΔT	13.32	12.12	9.88	-	13.29	12.09	9.85	-	13.45	12.26	10.02	-	13.27	12.07	9.83	-	13.11	11.91	9.67	-	13.86	12.67	10.43	-	13.11	11.91	9.67	-	13.86	12.67	10.43	-	13.11	11.91	9.67	-	13.86	12.67	10.43	-
	kW	0.95	0.95	0.94	-	1.06	1.06	1.06	-	1.19	1.19	1.19	-	1.33	1.33	1.33	-	1.48	1.48	1.48	-	1.67	1.66	1.66	-	1.48	1.48	1.48	-	1.67	1.66	1.66	-	1.48	1.48	1.48	-	1.67	1.66	1.66	-
	Amps	3.57	3.57	3.56	-	4.07	4.06	4.06	-	4.63	4.62	4.61	-	5.23	5.22	5.22	-	5.90	5.90	5.89	-	6.69	6.69	6.68	-	5.90	5.90	5.89	-	6.69	6.69	6.68	-	5.90	5.90	5.89	-	6.69	6.69	6.68	-
75	Hi PR	231	232	234	-	268	269	271	-	306	307	309	-	348	349	350	-	392	393	395	-	440	441	443	-	392	393	395	-	440	441	443	-	392	393	395	-	440	441	443	-
	Lo PR	132	134	137	-	140	142	146	-	148	149	153	-	154	155	159	-	159	161	164	-	167	168	172	-	159	161	164	-	167	168	172	-	159	161	164	-	167	168	172	-
	MBh	17.8	18.0	18.6	-	17.6	17.9	18.4	-	17.2	17.4	17.9	-	16.4	16.6	17.2	-	15.4	15.7	16.2	-	14.5	14.8	15.3	-	15.4	15.7	16.2	-	14.5	14.8	15.3	-	15.4	15.7	16.2	-	14.5	14.8	15.3	-
	S/T	0.69	0.61	0.47	-	1.00	0.62	0.48	-	1.00	0.65	0.51	-	1.00	0.67	0.53	-	1.00	1.00	0.55	-	1.00	1.00	0.60	-	1.00	1.00	0.55	-	1.00	1.00	0.60	-	1.00	1.00	0.55	-	1.00	1.00	0.60	-
	ΔT	12.25	11.05	8.81	-	12.21	11.01	8.77	-	12.38	11.18	8.94	-	12.20	11.00	8.76	-	12.04	10.84	8.60	-	12.79	11.59	9.35	-	12.04	10.84	8.60	-	12.79	11.59	9.35	-	12.04	10.84	8.60	-	12.79	11.59	9.35	-

IDB		OUTDOOR AMBIENT TEMPERATURE																																							
		65°F					75°F					85°F					95°F					105°F					115°F														
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	85	59	63	67	71	95	59	63	67	71	105	59	63	67	71	115										
494	MBh	17.5	17.7	18.3	19.1	17.3	17.6	18.1	18.9	16.9	17.1	17.6	18.4	16.1	16.3	16.9	17.7	15.1	15.4	15.9	16.7	14.2	14.5	15.0	15.8	15.1	15.4	15.9	16.7	14.2	14.5	15.0	15.8	15.1	15.4	15.9	16.7	14.2	14.5	15.0	15.8
	S/T	0.73	0.65	0.51	0.4	1.00	0.66	0.52	0.4	1.00	0.68	0.54	0.4	1.00	0.70	0.56	0.4	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6
	ΔT	15.96	14.76	12.52	10.2	15.92	14.72	12.48	10.2	16.09	14.89	12.65	10.3	15.91	14.71	12.47	10.2	15.75	14.55	12.31	10.0	16.50	15.30	13.06	10.7	15.75	14.55	12.31	10.0	16.50	15.30	13.06	10.7	15.75	14.55	12.31	10.0	16.50	15.30	13.06	10.7
	kW	0.95	0.95	0.94	1.0	1.06	1.06	1.06	1.1	1.19	1.19	1.19	1.2	1.33	1.33	1.33	1.3	1.48	1.48	1.48	1.5	1.66	1.66	1.66	1.7	1.48	1.48	1.48	1.5	1.66	1.66	1.66	1.7	1.48	1.48	1.48	1.5	1.66	1.66	1.66	1.7
	Amps	3.57	3.56	3.55	3.6	4.07	4.06	4.05	4.1	4.62	4.62	4.61	4.6	5.22	5.22	5.21	5.2	5.90	5.89	5.88	5.9	6.69	6.68	6.67	6.7	5.90	5.89	5.88	5.9	6.69	6.68	6.67	6.7	5.90	5.89	5.88	5.9	6.69	6.68	6.67	6.7
75	Hi PR	232	233	234	238.3	268	269	271	275.0	307	308	309	313.4	348	349	351	354.7	393	394	395	399.3	440	441	443	446.9	393	394	395	399.3	440	441	443	446.9	393	394	395	399.3	440	441	443	446.9
	Lo PR	132	134	137	143.1	141	142	146	151.2	148	149	153	158.3	154	155	159	164.3	159	161	165	170.2	167	168	172	177.6	159	161	165	170.2	167	168	172	177.6	159	161	165	170.2	167	168	172	177.6
	MBh	17.8	18.0	18.6	19.4	17.6	17.9	18.4	19.2	17.2	17.4	18.0	18.8	16.4	16.6	17.2	18.0	15.4	15.7	16.2	17.0	14.5	14.8	15.3	16.1	15.4	15.7	16.2	17.0	14.5	14.8	15.3	16.1	15.4	15.7	16.2	17.0	14.5	14.8	15.3	16.1
	S/T	1.00	0.75	0.61	0.5	1.00	0.76	0.61	0.5	1.00	0.78	0.64	0.5	1.00	1.00	0.66	0.5	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6
	ΔT	14.88	13.68	11.44	9.1	14.85	13.65	11.41	9.1	15.02	13.82	11.58	9.3	14.84	13.64	11.40	9.1	14.68	13.48	11.24	8.9	15.43	14.23	11.99	9.7	14.68	13.48	11.24	8.9	15.43	14.23	11.99	9.7	14.68	13.48	11.24	8.9	15.43	14.23	11.99	9.7

IDB: Entering Indoor Dry Bulb Temperature  
 High and low pressures are measured at the liquid and suction access fittings.  
 Design Subcooling 8 ± 2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 15 ± 2 °F @ the compressor suction access fitting connection.  
 Shaded area reflects ACCA (TVA) conditions.  
 kW = Total system power  
 Amps = outdoor unit amps (comp. fan)









EXPANDED COOLING DATA — APHM53041\*\* (LOW STAGE)

IDB			OUTDOOR AMBIENT TEMPERATURE																																		
			65°F						75°F						85°F				95°F						105°F						115°F						
AIRFLOW	59		63		67		71		75		79		83		87		91		95		99		103		107		111		115		119		123		127		
	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR		
70	604	21.5	21.8	22.4	0.61	0.52	0.38	16.68	15.21	12.38	1.30	1.16	1.16	1.30	1.30	1.30	1.30	1.46	1.46	1.46	1.63	1.63	1.63	1.63	1.63	3.36	3.24	3.25	3.66	3.67	3.69	4.13	4.14	4.16	4.58	4.59	4.61
	725	21.9	22.2	22.8	0.70	0.62	0.48	15.41	13.90	11.07	1.31	1.31	1.31	1.31	1.48	1.48	1.47	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.69	3.70	3.72	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17
	777	22.0	22.4	23.0	0.72	0.64	0.50	14.96	13.45	10.62	1.32	1.32	1.31	1.31	1.48	1.48	1.48	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.70	3.71	3.73	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17
	604	21.5	21.8	22.5	0.61	0.52	0.38	16.68	15.21	12.38	1.30	1.16	1.16	1.30	1.30	1.30	1.30	1.46	1.46	1.46	1.63	1.63	1.63	1.63	1.63	3.36	3.24	3.25	3.66	3.67	3.69	4.13	4.14	4.16	4.58	4.59	4.61
	725	21.9	22.2	22.8	0.70	0.62	0.48	15.41	13.90	11.07	1.31	1.31	1.31	1.31	1.48	1.48	1.47	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.69	3.70	3.72	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17
	777	22.0	22.4	23.0	0.72	0.64	0.50	14.96	13.45	10.62	1.32	1.32	1.31	1.31	1.48	1.48	1.48	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.70	3.71	3.73	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17

IDB			OUTDOOR AMBIENT TEMPERATURE																																		
			65°F						75°F						85°F				95°F						105°F						115°F						
AIRFLOW	59		63		67		71		75		79		83		87		91		95		99		103		107		111		115		119		123		127		
	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR		
75	604	21.5	21.8	22.4	0.61	0.52	0.38	16.68	15.21	12.38	1.30	1.16	1.16	1.30	1.30	1.30	1.30	1.46	1.46	1.46	1.63	1.63	1.63	1.63	1.63	3.36	3.24	3.25	3.66	3.67	3.69	4.13	4.14	4.16	4.58	4.59	4.61
	725	21.9	22.2	22.8	0.70	0.62	0.48	15.41	13.90	11.07	1.31	1.31	1.31	1.31	1.48	1.48	1.47	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.69	3.70	3.72	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17
	777	22.0	22.4	23.0	0.72	0.64	0.50	14.96	13.45	10.62	1.32	1.32	1.31	1.31	1.48	1.48	1.48	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.70	3.71	3.73	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17
	604	21.5	21.8	22.5	0.61	0.52	0.38	16.68	15.21	12.38	1.30	1.16	1.16	1.30	1.30	1.30	1.30	1.46	1.46	1.46	1.63	1.63	1.63	1.63	1.63	3.36	3.24	3.25	3.66	3.67	3.69	4.13	4.14	4.16	4.58	4.59	4.61
	725	21.9	22.2	22.8	0.70	0.62	0.48	15.41	13.90	11.07	1.31	1.31	1.31	1.31	1.48	1.48	1.47	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.69	3.70	3.72	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17
	777	22.0	22.4	23.0	0.72	0.64	0.50	14.96	13.45	10.62	1.32	1.32	1.31	1.31	1.48	1.48	1.48	1.64	1.64	1.64	1.83	1.83	1.83	1.83	1.83	3.70	3.71	3.73	4.16	4.17	4.19	4.66	4.67	4.69	5.14	5.15	5.17
	604	21.5	21.8	22.5	0.61	0.52	0.38	16.68	15.21	12.38	1.30	1.16	1.16	1.30	1.30	1.30	1.30	1.46	1.46	1.46	1.63	1.63	1.63	1.63	1.63	3.36	3.24	3.25	3.66	3.67	3.69	4.13	4.14	4.16	4.58	4.59	4.61

IDB: Entering Indoor Dry Bulb Temperature  
 High and low pressures are measured at the liquid and suction access fittings.  
 Design Subcooling 8 ±2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 15 ±2 °F @ the compressor suction access fitting connection.

Shaded area reflects ACCA (TVA) conditions.  
 kW = Total system power  
 Amps = outdoor unit amps (comp. + fan)

EXPANDED COOLING DATA — APHM53041 \*\* (LOW STAGE) (CONT.)

Table for model APHM53041 showing outdoor ambient temperature ranges (65°F to 115°F) and entering indoor wet bulb temperatures (75°F to 95°F). Columns include air flow (MBh, S/T, ΔT, kW, Amps) and performance metrics (Hi PR, Lo PR) for models 604, 725, and 777.

Table for model APHM53041 showing outdoor ambient temperature ranges (65°F to 115°F) and entering indoor wet bulb temperatures (75°F to 95°F). Columns include air flow (MBh, S/T, ΔT, kW, Amps) and performance metrics (Hi PR, Lo PR) for models 604, 725, and 777.

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
Design Subcooling 8 ±2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15 ±2 °F @ the compressor suction access fitting connection.

Shaded area reflects AHRI conditions.

kW = Total system power  
Amps = outdoor unit amps (comp.+fan)

EXPANDED COOLING DATA — APHM53641\*\* (HIGH STAGE)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																																																	
		65°F						75°F						85°F						95°F						105°F						115°F																			
		59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79														
70	1050	MBh	34.6	35.1	36.1	-	34.3	34.8	35.8	-	33.4	33.9	34.9	-	31.8	32.3	33.3	-	29.9	30.4	31.4	-	28.2	28.7	29.7	-	29.9	30.4	31.4	-	28.2	28.7	29.7	-	29.9	30.4	31.4	-	28.2	28.7	29.7	-	29.9	30.4	31.4	-	28.2	28.7	29.7	-	
		S/T	0.61	0.54	0.40	-	0.62	0.54	0.41	-	1.00	0.57	0.43	-	1.00	0.59	0.45	-	1.00	0.61	0.47	-	1.00	1.00	0.53	-	1.00	0.61	0.47	-	1.00	1.00	0.53	-	1.00	0.61	0.47	-	1.00	1.00	0.53	-	1.00	0.61	0.47	-	1.00	1.00	0.53	-	
	1200	ΔT	11.50	10.43	8.45	-	11.47	10.40	8.42	-	2.69	2.69	2.68	-	3.00	3.00	2.99	-	3.35	3.34	3.34	-	3.75	3.75	3.75	-	3.35	3.34	3.34	-	3.75	3.75	3.75	-	3.35	3.34	3.34	-	3.75	3.75	3.75	-	3.35	3.34	3.34	-	3.75	3.75	3.75	-	
		kW	7.94	7.93	7.92	-	9.06	9.05	9.04	-	10.31	10.30	10.29	-	11.67	11.66	11.64	-	13.18	13.17	13.15	-	14.95	14.94	14.92	-	13.18	13.17	13.15	-	14.95	14.94	14.92	-	13.18	13.17	13.15	-	14.95	14.94	14.92	-	13.18	13.17	13.15	-	14.95	14.94	14.92	-	
	1350	Amps	250	251	253	-	289	290	292	-	331	332	333	-	375	376	378	-	423	424	426	-	474	475	477	-	423	424	426	-	474	475	477	-	423	424	426	-	474	475	477	-	423	424	426	-	474	475	477	-	
		Lo PR	129	130	134	-	137	138	141	-	143	145	148	-	149	151	154	-	155	157	160	-	162	164	167	-	155	157	160	-	162	164	167	-	155	157	160	-	162	164	167	-	155	157	160	-	162	164	167	-	
	75	1050	MBh	34.6	35.1	36.1	37.1	34.3	34.8	35.8	36.8	33.4	33.9	34.9	35.9	32.3	32.8	33.8	34.3	30.9	31.4	32.4	33.4	28.2	28.7	29.7	31.3	30.9	31.4	32.4	33.4	29.2	29.7	30.7	31.3	30.9	31.4	32.4	33.4	29.2	29.7	30.7	31.3	30.9	31.4	32.4	33.4	29.2	29.7	30.7	31.3
			S/T	0.75	0.67	0.53	0.4	1.00	0.67	0.54	0.4	1.00	0.70	0.56	0.4	1.00	0.72	0.58	0.4	1.00	0.71	0.57	0.4	1.00	1.00	0.62	0.5	1.00	0.71	0.57	0.4	1.00	1.00	0.62	0.5	1.00	0.71	0.57	0.4	1.00	1.00	0.62	0.5	1.00	0.71	0.57	0.4	1.00	1.00	0.62	0.5
		1200	ΔT	13.83	12.77	10.78	8.7	13.80	12.74	10.76	8.7	2.69	2.68	2.68	2.7	3.00	3.00	2.99	3.0	3.34	3.34	3.34	3.4	3.75	3.75	3.75	3.8	3.34	3.34	3.34	3.4	3.75	3.75	3.75	3.8	3.34	3.34	3.34	3.4	3.75	3.75	3.75	3.8	3.34	3.34	3.34	3.4	3.75	3.75	3.75	3.8
			kW	7.94	7.93	7.91	8.0	9.06	9.05	9.03	9.1	10.31	10.30	10.28	10.4	11.66	11.65	11.63	11.7	13.17	13.16	13.14	13.2	14.94	14.93	14.91	15.0	13.17	13.16	13.14	13.2	14.94	14.93	14.91	15.0	13.17	13.16	13.14	13.2	14.94	14.93	14.91	15.0	13.17	13.16	13.14	13.2	14.94	14.93	14.91	15.0
1350		Amps	250	251	253	257.3	290	291	292	296.8	331	332	334	338.1	375	376	378	382.5	423	424	426	430.5	474	475	477	481.7	423	424	426	430.5	474	475	477	481.7	423	424	426	430.5	474	475	477	481.7	423	424	426	430.5	474	475	477	481.7	
		Lo PR	129	130	134	139.1	137	138	141	147.0	143	145	148	153.8	149	151	154	159.6	155	157	160	165.3	162	164	167	172.5	155	157	160	165.3	162	164	167	172.5	155	157	160	165.3	162	164	167	172.5	155	157	160	165.3	162	164	167	172.5	

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																																																
		65°F						75°F						85°F						95°F						105°F						115°F																		
		59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79													
75	1050	MBh	34.6	35.1	36.1	37.7	34.3	34.8	35.8	37.4	33.4	33.9	34.9	36.5	31.8	32.3	33.4	34.9	30.4	30.9	31.9	33.5	28.2	28.7	29.7	31.3	30.4	30.9	31.9	33.5	28.2	28.7	29.7	31.3	30.4	30.9	31.9	33.5	28.2	28.7	29.7	31.3	30.4	30.9	31.9	33.5	28.2	28.7	29.7	31.3
		S/T	0.75	0.67	0.53	0.4	1.00	0.67	0.54	0.4	1.00	0.70	0.56	0.4	1.00	0.72	0.58	0.4	1.00	0.71	0.57	0.4	1.00	1.00	0.66	0.5	1.00	0.71	0.57	0.4	1.00	1.00	0.66	0.5	1.00	0.71	0.57	0.4	1.00	1.00	0.66	0.5	1.00	0.71	0.57	0.4	1.00	1.00	0.66	0.5
	1200	ΔT	13.19	12.13	10.14	8.1	13.16	12.10	10.11	8.1	2.41	2.41	2.41	2.4	3.01	3.01	3.00	3.0	3.36	3.36	3.35	3.4	3.77	3.76	3.76	3.8	3.36	3.36	3.35	3.4	3.77	3.76	3.76	3.8	3.36	3.36	3.35	3.4	3.77	3.76	3.76	3.8	3.36	3.36	3.35	3.4	3.77	3.76	3.76	3.8
		kW	7.99	7.99	7.97	8.1	9.11	9.11	9.09	9.2	10.36	10.36	10.34	10.4	11.72	11.71	11.69	11.8	13.23	13.22	13.20	13.3	15.00	14.99	14.97	15.1	13.23	13.22	13.20	13.3	15.00	14.99	14.97	15.1	13.23	13.22	13.20	13.3	15.00	14.99	14.97	15.1	13.23	13.22	13.20	13.3	15.00	14.99	14.97	15.1
	1350	Amps	252	253	255	259.4	292	293	295	298.9	333	334	336	340.2	377	379	380	384.7	425	427	428	432.6	477	478	479	483.8	425	427	428	432.6	477	478	479	483.8	425	427	428	432.6	477	478	479	483.8	425	427	428	432.6	477	478	479	483.8
		Lo PR	131	132	136	141.0	139	140	143	148.9	145	147	150	155.7	151	153	156	161.5	157	158	162	167.2	164	166	169	174.4	157	158	162	167.2	164	166	169	174.4	157	158	162	167.2	164	166	169	174.4	157	158	162	167.2	164	166	169	174.4

IDB: Entering Indoor Dry Bulb Temperature  
 High and low pressures are measured at the liquid and suction access fittings.  
 Design Subcooling 8 ±2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 15 ±2 °F @ the compressor suction access fitting connection.  
 Shaded area reflects ACCA (TVA) conditions.  
 kW = Total system power  
 Amps = outdoor unit amps (comp. +fan)

EXPANDED COOLING DATA – APHM53641\*\* (HIGH STAGE) (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE											105°F											115°F																					
		85°F											95°F											105°F											115°F										
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																
80	MBh	34.8	35.3	36.3	37.9	34.5	35.0	36.0	37.6	33.6	34.1	35.1	36.7	32.0	32.5	33.5	35.1	30.1	30.6	31.6	33.2	28.4	28.9	29.9	31.5																				
	S/T	1.00	0.80	0.66	0.5	1.00	0.80	0.66	0.5	1.00	1.00	0.69	0.5	1.00	1.00	0.71	0.6	1.00	1.00	0.73	0.6	1.00	1.00	1.00	0.6																				
	ΔT	16.19	15.12	13.14	11.1	16.16	15.09	13.11	11.1	16.31	15.24	13.26	11.2	16.15	15.08	13.10	11.0	16.00	14.94	12.96	10.9	16.67	15.61	13.62	11.6																				
	kW	2.14	2.14	2.14	2.2	2.40	2.40	2.39	2.4	2.69	2.69	2.68	2.7	3.00	3.00	2.99	3.0	3.35	3.34	3.34	3.4	3.75	3.75	3.75	3.8																				
	Amps	7.94	7.93	7.91	8.0	9.06	9.05	9.03	9.1	10.31	10.30	10.28	10.4	11.66	11.66	11.64	11.7	13.18	13.17	13.15	13.2	14.95	14.94	14.92	15.0																				
	Hi PR	251	252	253	257.8	290	291	293	297.2	331	332	334	338.5	376	377	379	383.0	424	425	427	431.0	475	476	478	482.2																				
	Lo PR	129	131	134	139.7	137	139	142	147.6	144	146	149	154.4	150	151	155	160.2	156	157	160	165.9	163	164	168	173.0																				
	MBh	35.2	35.7	36.8	38.3	34.9	35.4	36.5	38.0	34.0	34.5	35.6	37.1	32.5	33.0	<b>34.0</b>	35.6	30.6	31.1	32.1	33.7	28.8	29.3	30.4	31.9																				
	S/T	1.00	0.86	0.72	0.6	1.00	0.86	0.73	0.6	1.00	1.00	0.75	0.6	1.00	1.00	<b>0.77</b>	0.6	1.00	1.00	0.79	0.6	1.00	1.00	1.00	0.7																				
ΔT	15.54	14.48	12.50	10.4	15.51	14.45	12.47	10.4	15.66	14.60	12.62	10.6	15.50	14.44	<b>12.46</b>	10.4	15.36	14.30	12.31	10.3	16.03	14.96	12.98	10.9																					
kW	2.16	2.15	2.15	2.2	2.41	2.41	2.41	2.4	2.70	2.70	2.69	2.7	3.01	3.01	<b>3.01</b>	3.0	3.36	3.36	3.35	3.4	3.77	3.77	3.76	3.8																					
Amps	8.00	7.99	7.97	8.1	9.12	9.11	9.09	9.2	10.37	10.36	10.34	10.4	11.72	11.71	<b>11.69</b>	11.8	13.23	13.22	13.21	13.3	15.01	15.00	14.98	15.1																					
Hi PR	253	254	256	259.9	292	293	295	299.3	333	335	336	340.6	378	379	<b>381</b>	385.1	426	427	429	433.1	477	478	480	484.3																					
Lo PR	131	133	136	141.6	139	141	144	149.4	146	148	151	156.3	152	153	<b>157</b>	162.1	157	159	162	167.8	165	166	169	174.9																					
MBh	35.8	36.3	37.3	38.9	35.5	36.0	37.0	38.6	34.6	35.1	36.1	37.7	33.0	33.5	34.5	36.1	31.1	31.6	32.6	34.2	29.4	29.9	30.9	32.5																					
S/T	1.00	0.89	0.75	0.6	1.00	0.90	0.76	0.6	1.00	1.00	0.78	0.6	1.00	1.00	0.80	0.7	1.00	1.00	0.83	0.7	1.00	1.00	1.00	0.7																					
ΔT	15.00	13.94	11.95	9.9	14.97	13.91	11.93	9.9	15.12	14.06	12.08	10.0	14.96	13.90	11.92	9.9	14.82	13.76	11.77	9.7	15.49	14.42	12.44	10.4																					
kW	2.17	2.17	2.16	2.2	2.42	2.42	2.42	2.4	2.71	2.71	2.71	2.7	3.02	3.02	3.02	3.0	3.37	3.37	3.36	3.4	3.78	3.78	3.77	3.8																					
Amps	8.05	8.04	8.02	8.1	9.17	9.16	9.14	9.2	10.42	10.41	10.39	10.5	11.77	11.76	11.74	11.8	13.28	13.27	13.25	13.3	15.06	15.05	15.03	15.1																					
Hi PR	255	256	258	262.0	294	295	297	301.4	336	337	338	342.7	380	381	<b>383</b>	387.2	428	429	431	435.2	479	480	482	486.3																					
Lo PR	133	135	138	143.7	141	143	146	151.5	148	150	153	158.4	154	155	<b>159</b>	164.2	160	161	164	169.9	167	168	172	177.0																					

85	MBh	35.4	35.9	36.9	38.5	35.1	35.6	36.6	38.2	34.2	34.6	35.7	37.3	32.6	33.1	34.1	35.7	30.7	31.2	32.2	33.8	29.0	29.5	30.5	32.1
	S/T	1.00	0.90	0.76	0.6	1.00	1.00	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.7
	ΔT	18.27	17.21	15.23	13.2	18.24	17.18	15.20	13.1	18.39	17.33	15.35	13.3	18.23	17.17	15.19	13.1	18.09	17.03	15.04	13.0	18.76	17.69	15.71	13.7
	kW	2.15	2.15	2.14	2.2	2.41	2.40	2.40	2.4	2.69	2.69	2.69	2.7	3.00	3.00	3.00	3.0	3.35	3.35	3.34	3.4	3.76	3.76	3.75	3.8
	Amps	7.96	7.95	7.94	8.0	9.08	9.07	9.06	9.1	10.33	10.32	10.31	10.4	11.69	11.68	11.66	11.7	13.20	13.19	13.17	13.3	14.97	14.96	14.94	15.0
	Hi PR	252	253	255	259.0	291	292	294	298.4	333	334	335	339.7	377	378	<b>380</b>	384.2	425	426	428	432.1	476	477	479	483.3
	Lo PR	131	133	136	141.6	139	141	144	149.5	146	148	151	156.3	152	153	<b>157</b>	162.1	157	159	162	167.8	165	166	169	175.0
	MBh	35.8	36.3	37.3	38.9	35.5	36.0	37.0	38.6	34.6	35.1	36.1	37.7	33.1	33.5	34.6	36.2	31.2	31.7	32.7	34.3	29.4	29.9	30.9	32.5
	S/T	1.00	0.96	0.82	0.7	1.00	1.00	0.83	0.7	1.00	1.00	0.85	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8
ΔT	17.63	16.57	14.58	12.5	17.60	16.54	14.55	12.5	17.75	16.69	14.70	12.6	17.59	16.53	14.54	12.5	17.45	16.39	14.40	12.3	18.11	17.05	15.07	13.0	
kW	2.16	2.16	2.15	2.2	2.42	2.42	2.41	2.4	2.71	2.70	2.70	2.7	3.02	3.02	3.01	3.0	3.36	3.36	3.36	3.4	3.77	3.77	3.77	3.8	
Amps	8.02	8.01	7.99	8.1	9.14	9.13	9.11	9.2	10.39	10.38	10.36	10.4	11.74	11.73	11.72	11.8	13.25	13.25	13.23	13.3	15.03	15.02	15.00	15.1	
Hi PR	254	255	257	261.1	293	294	296	300.5	335	336	337	341.8	379	380	<b>382</b>	386.3	427	428	430	434.3	478	479	481	485.5	
Lo PR	133	135	138	143.5	141	143	146	151.4	148	149	153	158.2	154	155	<b>159</b>	164.0	159	161	164	169.7	167	168	171	176.9	
MBh	36.4	36.9	37.9	39.5	36.1	36.6	37.6	39.2	35.2	35.6	36.7	38.3	33.6	34.1	35.1	36.7	31.7	32.2	33.2	34.8	30.0	30.5	31.5	33.1	
S/T	1.00	1.00	0.86	0.7	1.00	1.00	0.86	0.7	1.00	1.00	0.89	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8	
ΔT	17.09	16.03	14.04	12.0	17.06	16.00	14.01	12.0	17.21	16.15	14.16	12.1	17.05	15.99	14.00	11.9	16.91	15.85	13.86	11.8	17.57	16.51	14.53	12.5	
kW	2.17	2.17	2.17	2.2	2.43	2.43	2.42	2.4	2.72	2.72	2.71	2.7	3.03	3.03	3.02	3.0	3.38	3.37	3.37	3.4	3.78	3.78	3.78	3.8	
Amps	8.07	8.06	8.04	8.1	9.19	9.18	9.16	9.2	10.44	10.43	10.41	10.5	11.79	11.78	11.76	11.9	13.30	13.29	13.28	13.4	15.08	15.07	15.05	15.1	
Hi PR	256	257	259	263.1	295	296	298	302.6	337	338	340	343.9	381	382	<b>384</b>	388.4	429	430	432	436.3	480	481	483	487.5	
Lo PR	135	137	140	145.6	143	145	148	153.5	150	152	155	160.3	156	157	<b>161</b>	166.1	161	163	166	171.8	169	170	173	179.0	

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
Design Subcooling 8 ±2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15 ±2 °F @ the compressor suction access fitting connection.  
kW = Total system power  
Amps = outdoor unit amps (comp.+fan)

Shaded area reflects AHRI conditions.

EXPANDED COOLING DATA — APHM53641\*\* (LOW STAGE)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																							
		65°F				75°F				85°F				95°F				105°F				115°F			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
<b>70</b>	MBh	24.9	25.2	26.0	-	24.6	25.0	25.7	-	24.0	24.4	25.1	-	22.9	23.2	24.0	-	21.5	21.9	22.6	-	20.3	20.6	21.4	-
	S/T	0.63	0.55	0.41	-	0.64	0.56	0.42	-	1.00	0.58	0.44	-	1.00	0.60	0.46	-	1.00	0.63	0.49	-	1.00	1.00	0.54	-
	ΔT	11.09	10.07	8.15	-	11.06	10.04	8.12	-	11.21	10.18	8.27	-	11.05	10.03	8.11	-	10.92	9.89	7.98	-	11.56	10.53	8.62	-
	kW	1.35	1.35	1.34	-	1.51	1.51	1.51	-	1.69	1.69	1.69	-	1.89	1.89	1.88	-	2.11	2.10	2.10	-	2.36	2.36	2.36	-
	Amps	5.00	4.99	4.98	-	5.70	5.70	5.68	-	6.49	6.48	6.47	-	7.34	7.33	7.32	-	8.29	8.28	8.27	-	9.40	9.40	9.39	-
	Hi PR	239	240	242	-	277	278	279	-	316	317	319	-	359	360	361	-	404	406	407	-	453	454	456	-
	Lo PR	132	134	137	-	140	142	145	-	147	149	152	-	153	155	158	-	159	161	164	-	167	168	172	-
<b>825</b>	MBh	25.2	25.5	26.3	-	25.0	25.3	26.1	-	24.3	24.7	25.4	-	23.2	23.6	24.3	-	21.8	22.2	22.9	-	20.6	20.9	21.7	-
	S/T	0.69	0.61	0.47	-	0.70	0.62	0.48	-	1.00	0.65	0.51	-	1.00	0.67	0.53	-	1.00	0.69	0.55	-	1.00	1.00	0.60	-
	ΔT	10.47	9.45	7.53	-	10.45	9.42	7.50	-	10.59	9.56	7.65	-	10.43	9.41	7.49	-	10.30	9.27	7.36	-	10.94	9.91	8.00	-
	kW	1.36	1.36	1.35	-	1.52	1.52	1.51	-	1.70	1.70	1.70	-	1.89	1.89	1.89	-	2.11	2.11	2.11	-	2.37	2.37	2.37	-
	Amps	5.03	5.03	5.02	-	5.74	5.73	5.72	-	6.52	6.52	6.51	-	7.37	7.37	7.36	-	8.32	8.32	8.31	-	9.44	9.43	9.42	-
	Hi PR	241	242	244	-	279	280	281	-	318	319	321	-	361	362	363	-	407	408	409	-	455	456	458	-
	Lo PR	134	136	139	-	142	144	147	-	149	151	154	-	155	157	160	-	161	163	166	-	169	170	174	-
<b>928</b>	MBh	25.6	25.9	26.7	-	25.4	25.7	26.5	-	24.7	25.1	25.8	-	23.6	24.0	24.7	-	22.2	22.6	23.3	-	21.0	21.3	22.1	-
	S/T	0.73	0.65	0.51	-	1.00	0.66	0.51	-	1.00	0.68	0.54	-	1.00	0.70	0.56	-	1.00	1.00	0.58	-	1.00	1.00	0.64	-
	ΔT	9.95	8.93	7.01	-	9.92	8.90	6.98	-	10.07	9.04	7.13	-	9.91	8.89	6.97	-	9.78	8.75	6.83	-	10.42	9.39	7.48	-
	kW	1.36	1.36	1.36	-	1.53	1.52	1.52	-	1.71	1.70	1.70	-	1.90	1.90	1.90	-	2.12	2.12	2.12	-	2.38	2.38	2.37	-
	Amps	5.06	5.06	5.05	-	5.77	5.76	5.75	-	6.55	6.55	6.54	-	7.40	7.40	7.39	-	8.36	8.35	8.34	-	9.47	9.46	9.45	-
	Hi PR	243	244	246	-	281	282	283	-	320	321	323	-	363	364	365	-	408	410	411	-	457	458	460	-
	Lo PR	136	138	141	-	145	146	150	-	152	153	157	-	158	159	163	-	163	165	168	-	171	172	176	-

<b>722</b>	MBh	24.9	25.2	26.0	27.1	24.7	25.0	25.8	26.9	24.0	24.4	25.1	26.2	22.9	23.2	24.0	25.1	21.5	21.9	22.6	23.8	20.3	20.6	21.4	22.5
	S/T	0.77	0.69	0.55	0.4	1.00	0.69	0.55	0.4	1.00	0.72	0.58	0.4	1.00	1.00	0.60	0.4	1.00	1.00	0.62	0.5	1.00	1.00	0.67	0.5
	ΔT	13.35	12.32	10.41	8.4	13.32	12.29	10.38	8.4	13.46	12.44	10.52	8.5	13.31	12.28	10.37	8.4	13.17	12.15	10.23	8.2	13.82	12.79	10.87	8.9
	kW	1.35	1.35	1.34	1.4	1.51	1.51	1.50	1.5	1.69	1.69	1.69	1.7	1.89	1.88	1.88	1.9	2.10	2.10	2.10	2.1	2.36	2.36	2.36	2.4
	Amps	4.99	4.99	4.97	5.0	5.70	5.69	5.68	5.7	6.48	6.48	6.46	6.5	7.33	7.33	7.32	7.4	8.28	8.28	8.27	8.3	9.40	9.39	9.38	9.4
	Hi PR	239	240	242	246.0	277	278	280	283.7	316	317	319	323.2	359	360	362	365.7	405	406	407	411.6	454	455	456	460.5
	Lo PR	132	134	137	143.0	140	142	145	151.1	148	149	153	158.2	153	155	158	164.1	159	161	164	170.0	167	168	172	177.3
<b>825</b>	MBh	25.2	25.6	26.3	27.4	25.0	25.3	26.1	27.2	24.3	24.7	25.4	26.6	23.2	23.6	24.3	25.5	21.9	22.2	23.0	24.1	20.6	21.0	21.7	22.8
	S/T	1.00	0.75	0.61	0.5	1.00	0.76	0.61	0.5	1.00	0.78	0.64	0.5	1.00	1.00	0.66	0.5	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6
	ΔT	12.73	11.70	9.79	7.8	12.70	11.67	9.76	7.8	12.84	11.82	9.90	7.9	12.69	11.66	9.75	7.8	12.55	11.53	9.61	7.6	13.20	12.17	10.25	8.3
	kW	1.36	1.35	1.35	1.4	1.52	1.52	1.51	1.5	1.70	1.70	1.69	1.7	1.89	1.89	1.89	1.9	2.11	2.11	2.11	2.1	2.37	2.37	2.36	2.4
	Amps	5.03	5.02	5.01	5.1	5.73	5.73	5.72	5.8	6.52	6.51	6.50	6.6	7.37	7.36	7.35	7.4	8.32	8.31	8.30	8.4	9.44	9.43	9.42	9.5
	Hi PR	241	242	244	248.0	279	280	282	285.7	318	319	321	325.2	361	362	364	367.7	407	408	409	413.6	456	457	458	462.5
	Lo PR	134	136	139	145.0	142	144	147	153.0	149	151	154	160.1	155	157	160	166.1	161	163	166	171.9	169	170	174	179.2
<b>928</b>	MBh	25.6	26.0	26.7	27.8	25.4	25.7	26.5	27.6	24.7	25.1	25.8	27.0	23.6	24.0	24.7	25.8	22.2	22.6	23.3	24.5	21.0	21.4	22.1	23.2
	S/T	1.00	0.78	0.64	0.5	1.00	0.79	0.65	0.5	1.00	0.82	0.68	0.5	1.00	1.00	0.70	0.5	1.00	1.00	0.72	0.6	1.00	1.00	1.00	0.6
	ΔT	12.21	11.18	9.27	7.3	12.18	11.15	9.24	7.3	12.32	11.30	9.38	7.4	12.17	11.14	9.23	7.2	12.03	11.01	9.09	7.1	12.67	11.65	9.73	7.7
	kW	1.36	1.36	1.36	1.4	1.52	1.52	1.52	1.5	1.71	1.70	1.70	1.7	1.90	1.90	1.90	1.9	2.12	2.12	2.12	2.1	2.38	2.37	2.37	2.4
	Amps	5.06	5.05	5.04	5.1	5.76	5.76	5.75	5.8	6.55	6.54	6.53	6.6	7.40	7.39	7.38	7.4	8.35	8.35	8.33	8.4	9.47	9.46	9.45	9.5
	Hi PR	243	244	246	250.0	281	282	284	287.7	320	321	323	327.2	363	364	366	369.7	409	410	411	415.6	458	459	460	464.5
	Lo PR	137	138	142	147.1	145	146	150	155.2	152	153	157	162.3	158	159	163	168.2	163	165	168	174.1	171	172	176	181.4

IDB: Entering Indoor Dry Bulb Temperature  
 High and low pressures are measured at the liquid and suction access fittings.  
 Design Subcooling 8 ±2 °F @ the liquid access fitting connection AHR1.95 test conditions. Design Superheat 15 ±2 °F @ the compressor suction access fitting connection.  
 Shaded area reflects ACCA (TVA) conditions.  
 kW = Total system power  
 Amps = outdoor unit amps (comp.-fan)

EXPANDED COOLING DATA — APHM53641\*\* (LOW STAGE) (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB TEMPERATURE											
		65°F				75°F				85°F				95°F				105°F				115°F			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	25.0	25.4	26.1	27.2	24.8	25.1	25.9	27.0	24.1	24.5	25.2	26.4	23.0	23.4	24.1	25.3	21.7	22.0	22.8	23.9	20.4	20.8	21.5	22.6
	S/T	1.00	0.82	0.68	0.5	1.00	0.82	0.68	0.5	1.00	1.00	0.71	0.6	1.00	1.00	0.73	0.6	1.00	1.00	0.75	0.6	1.00	1.00	1.00	0.7
	ΔT	15.62	14.59	12.68	10.7	15.59	14.57	12.65	10.7	15.74	14.71	12.79	10.8	15.58	14.55	12.64	10.7	15.44	14.42	12.50	10.5	16.09	15.06	13.14	11.2
	kW	1.35	1.35	1.34	1.4	1.51	1.51	1.51	1.5	1.69	1.69	1.69	1.7	1.89	1.88	1.88	1.9	2.11	2.10	2.10	2.1	2.36	2.36	2.36	2.4
	Amps	5.00	4.99	4.98	5.0	5.70	5.69	5.68	5.7	6.49	6.48	6.47	6.5	7.34	7.33	7.32	7.4	8.29	8.28	8.27	8.3	9.40	9.40	9.40	9.4
825	Hi PR	240	241	242	246.4	277	278	280	284.1	317	318	319	323.6	359	360	362	366.2	405	406	408	412.0	454	455	457	460.9
	Lo PR	133	135	138	143.6	141	143	146	151.7	148	150	153	158.7	154	156	159	164.7	160	162	165	170.6	167	169	172	177.9
	MBh	25.3	25.7	26.4	27.6	25.1	25.5	26.2	27.3	24.5	24.8	25.6	26.7	23.4	23.7	24.4	25.6	22.0	22.3	23.1	24.2	20.7	21.1	21.8	23.0
	S/T	1.00	0.88	0.74	0.6	1.00	0.89	0.74	0.6	1.00	1.00	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	1.00	0.7
	ΔT	15.00	13.97	12.06	10.1	14.97	13.95	12.03	10.0	15.12	14.09	12.17	10.2	14.96	13.94	12.02	10.0	14.82	13.80	11.88	9.9	15.47	14.44	12.52	10.5
928	kW	1.36	1.35	1.35	1.4	1.52	1.52	1.51	1.5	1.70	1.70	1.69	1.7	1.89	1.89	1.89	1.9	2.11	2.11	2.11	2.1	2.37	2.37	2.37	2.4
	Amps	5.03	5.03	5.01	5.1	5.74	5.73	5.72	5.8	6.52	6.52	6.50	6.6	7.37	7.37	7.36	7.4	8.32	8.32	8.31	8.4	9.44	9.43	9.42	9.5
	Hi PR	242	243	244	248.5	279	280	282	286.2	319	320	321	325.7	361	362	364	368.2	407	408	410	414.0	456	457	459	463.0
	Lo PR	135	137	140	145.6	143	145	148	153.6	150	152	155	160.7	156	158	161	166.6	162	163	167	172.5	169	171	174	179.8
	MBh	25.7	26.1	26.8	28.0	25.5	25.9	26.6	27.7	24.9	25.2	26.0	27.1	23.7	24.1	24.8	26.0	22.4	22.7	23.5	24.6	21.1	21.5	22.2	23.4

85	MBh	25.4	25.8	26.5	27.7	25.2	25.6	26.3	27.4	24.6	24.9	25.7	26.8	23.4	23.8	24.5	25.7	22.1	22.4	23.2	24.3	20.8	21.2	21.9	23.1
	S/T	1.00	1.00	0.78	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.8
	ΔT	17.63	16.61	14.69	12.7	17.61	16.58	14.66	12.7	17.75	16.72	14.81	12.8	17.60	16.57	14.65	12.7	17.46	16.43	14.52	12.5	18.10	17.07	15.16	13.2
	kW	1.35	1.35	1.35	1.4	1.51	1.51	1.51	1.5	1.69	1.69	1.69	1.7	1.89	1.89	1.89	1.9	2.11	2.11	2.10	2.1	2.36	2.36	2.36	2.4
	Amps	5.01	5.00	4.99	5.0	5.71	5.71	5.70	5.7	6.50	6.49	6.48	6.5	7.35	7.34	7.33	7.4	8.30	8.30	8.28	8.3	9.42	9.41	9.40	9.5
825	Hi PR	241	242	243	247.6	278	279	281	285.3	318	319	321	324.8	360	361	363	367.3	406	407	409	413.1	455	456	458	462.1
	Lo PR	135	137	140	145.6	143	145	148	153.7	150	152	155	160.7	156	158	161	166.7	162	164	167	172.5	169	171	174	179.9
	MBh	25.8	26.1	26.9	28.0	25.5	25.9	26.6	27.8	24.9	25.2	26.0	27.1	23.8	24.1	24.9	26.0	22.4	22.8	23.5	24.6	21.2	21.5	22.3	23.4
	S/T	1.00	1.00	0.84	0.7	1.00	1.00	0.85	0.7	1.00	1.00	0.88	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	1.0
	ΔT	17.01	15.99	14.07	12.1	16.99	15.96	14.04	12.1	17.13	16.10	14.19	12.2	16.98	15.95	14.03	12.0	16.84	15.81	13.90	11.9	17.48	16.45	14.54	12.6
928	kW	1.36	1.36	1.36	1.4	1.52	1.52	1.52	1.5	1.70	1.70	1.70	1.7	1.90	1.90	1.89	1.9	2.12	2.12	2.11	2.1	2.37	2.37	2.37	2.4
	Amps	5.05	5.04	5.03	5.1	5.75	5.74	5.73	5.8	6.54	6.53	6.52	6.6	7.39	7.38	7.37	7.4	8.34	8.33	8.32	8.4	9.45	9.45	9.43	9.5
	Hi PR	243	244	245	249.6	280	281	283	287.3	320	321	323	326.8	362	363	365	369.3	408	409	411	415.2	457	458	460	464.1
	Lo PR	137	139	142	147.6	145	147	150	155.6	152	154	157	162.7	158	160	163	168.6	164	165	169	174.5	171	173	176	181.8
	MBh	26.2	26.5	27.2	28.4	25.9	26.3	27.0	28.2	25.3	25.6	26.4	27.5	24.2	24.5	25.3	26.4	22.8	23.1	23.9	25.0	21.6	21.9	22.6	23.8

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
Shaded area reflects AHRI conditions.  
kW = Total system power  
Amps = outdoor unit amps (comp.+fan)

EXPANDED COOLING DATA — APHM54241\*\* (HIGH STAGE)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
		59	63	67	71	71	59	63	67	71	71	59	63	67	71	71	59	63	67	71	71	59	63	67	71	71	59	63	67	71	71						
<b>70</b>	<b>1225</b>	MBh	42.0	42.6	43.8	-	41.6	42.2	43.5	-	40.5	41.1	42.4	-	38.7	39.2	40.5	-	36.4	37.0	38.2	-	34.3	34.9	36.1	-											
		S/T	0.63	0.56	0.42	-	0.64	0.56	0.43	-	0.66	0.59	0.46	-	1.00	0.61	0.48	-	1.00	0.63	0.50	-	1.00	0.68	0.55	-											
		ΔT	12.03	10.88	8.74	-	12.00	10.85	8.71	-	12.16	11.01	8.87	-	11.99	10.84	8.69	-	11.83	10.69	8.54	-	12.55	11.41	9.26	-											
		kW	2.56	2.56	2.55	-	2.88	2.88	2.87	-	3.24	3.24	3.23	-	3.63	3.62	3.62	-	4.06	4.06	4.05	-	4.56	4.56	4.56	-											
		Amps	9.63	9.62	9.60	-	11.03	11.01	10.99	-	12.58	12.57	12.54	-	14.26	14.25	14.22	-	16.14	16.13	16.10	-	18.34	18.33	18.30	-											
		Hi-PR	261	262	264	-	302	303	305	-	345	346	348	-	391	392	394	-	441	442	444	-	494	495	497	-											
	Lo-PR	126	128	131	-	134	135	139	-	141	142	145	-	146	148	151	-	152	153	156	-	159	160	163	-												
	MBh	42.3	42.8	44.1	-	41.9	42.5	43.7	-	40.8	41.4	42.6	-	38.9	39.5	40.8	-	36.6	37.2	38.5	-	34.5	35.1	36.4	-												
	S/T	0.66	0.58	0.45	-	0.66	0.59	0.45	-	0.69	0.61	0.48	-	1.00	0.63	0.50	-	1.00	0.65	0.52	-	1.00	0.71	0.57	-												
	ΔT	11.73	10.58	8.43	-	11.70	10.55	8.40	-	11.86	10.71	8.56	-	11.69	10.54	8.39	-	11.53	10.38	8.24	-	12.25	11.10	8.96	-												
	kW	2.57	2.57	2.56	-	2.89	2.89	2.88	-	3.25	3.24	3.24	-	3.63	3.63	3.63	-	4.07	4.06	4.06	-	4.57	4.57	4.56	-												
	Amps	9.67	9.66	9.63	-	11.06	11.05	11.02	-	12.61	12.60	12.58	-	14.29	14.28	14.26	-	16.17	16.16	16.13	-	18.37	18.36	18.34	-												
Hi-PR	262	263	265	-	303	304	306	-	346	347	349	-	392	393	395	-	442	443	445	-	495	496	498	-													
Lo-PR	127	129	132	-	135	136	139	-	141	143	146	-	147	149	152	-	153	154	157	-	160	161	164	-													
MBh	43.5	44.0	45.3	-	43.1	43.7	44.9	-	42.0	42.6	43.8	-	40.1	40.7	41.9	-	37.8	38.4	39.7	-	35.7	36.3	37.6	-													
S/T	0.70	0.63	0.49	-	0.71	0.63	0.50	-	1.00	0.66	0.52	-	1.00	0.68	0.54	-	1.00	0.70	0.56	-	1.00	1.00	0.61	-													
ΔT	10.78	9.63	7.49	-	10.75	9.60	7.45	-	10.91	9.76	7.62	-	10.74	9.59	7.44	-	10.58	9.43	7.29	-	11.30	10.15	8.01	-													
kW	2.59	2.59	2.58	-	2.91	2.91	2.90	-	3.27	3.27	3.26	-	3.66	3.65	3.65	-	4.09	4.09	4.08	-	4.59	4.59	4.59	-													
Amps	9.76	9.75	9.73	-	11.16	11.14	11.12	-	12.71	12.70	12.67	-	14.39	14.38	14.35	-	16.27	16.25	16.23	-	18.47	18.46	18.43	-													
Hi-PR	265	267	268	-	306	308	309	-	349	350	352	-	396	397	399	-	445	447	448	-	499	500	502	-													
Lo-PR	131	132	135	-	138	140	143	-	145	147	150	-	151	152	155	-	156	158	161	-	163	165	168	-													

<b>75</b>	<b>1225</b>	MBh	42.0	42.6	43.9	45.8	41.6	42.2	43.5	45.4	40.6	41.1	42.4	44.3	38.7	39.3	40.5	42.4	36.4	37.0	38.2	40.1	34.3	34.9	36.1	38.0
		S/T	0.76	0.69	0.55	0.41	1.00	0.69	0.56	0.42	1.00	0.72	0.58	0.44	1.00	0.74	0.60	0.46	1.00	0.76	0.62	0.48	1.00	1.00	0.68	0.53
		ΔT	14.56	13.41	11.26	9.04	14.53	13.38	11.23	9.01	14.69	13.54	11.39	9.17	14.51	13.37	11.22	9.00	14.36	13.21	11.07	8.84	15.08	13.93	11.79	9.56
		kW	2.56	2.56	2.55	2.58	2.88	2.88	2.87	2.90	3.24	3.24	3.23	3.25	3.62	3.62	3.62	3.64	4.06	4.05	4.05	4.07	4.56	4.56	4.55	4.58
		Amps	9.63	9.61	9.59	9.70	11.02	11.01	10.98	11.09	12.57	12.56	12.53	12.64	14.25	14.24	14.21	14.32	16.13	16.12	16.09	16.20	18.33	18.32	18.30	18.40
		Hi-PR	261	262	264	269	302	303	305	309	345	346	348	352	391	392	394	399	441	442	444	448	494	495	497	502
	Lo-PR	126	128	131	136	134	135	139	144	141	142	145	151	146	148	151	156	152	153	156	162	159	160	163	169	
	MBh	42.3	42.9	44.1	46.0	41.9	42.5	43.7	45.7	40.8	41.4	42.7	44.6	38.9	<b>39.5</b>	40.8	42.7	36.7	37.2	38.5	40.4	34.6	35.2	36.4	38.3	
	S/T	0.79	0.71	0.58	0.44	1.00	0.72	0.58	0.44	1.00	0.74	0.61	0.47	1.00	<b>0.76</b>	0.63	0.49	1.00	0.78	0.65	0.51	1.00	1.00	0.70	0.56	
	ΔT	14.25	13.11	10.96	8.74	14.22	13.07	10.93	8.71	14.38	13.24	11.09	8.87	14.21	<b>13.06</b>	10.92	8.69	14.06	12.91	10.76	8.54	14.78	13.63	11.48	9.26	
	kW	2.57	2.57	2.56	2.58	2.89	2.89	2.88	2.90	3.25	3.24	3.24	3.26	3.63	<b>3.63</b>	3.62	3.65	4.06	4.06	4.06	4.08	4.57	4.57	4.56	4.59	
	Amps	9.66	9.65	9.62	9.73	11.05	11.04	11.01	11.12	12.60	12.59	12.57	12.67	14.28	<b>14.27</b>	14.25	14.35	16.16	16.15	16.12	16.23	18.36	18.35	18.33	18.43	
Hi-PR	262	263	265	270	303	304	306	310	346	347	349	353	392	<b>393</b>	395	400	442	443	445	449	495	496	498	503		
Lo-PR	127	129	132	137	135	136	139	145	141	143	146	151	147	<b>149</b>	152	157	153	154	157	163	160	161	164	170		
MBh	43.5	44.1	45.3	47.2	43.1	43.7	44.9	46.8	42.0	42.6	43.8	45.8	40.1	40.7	42.0	43.9	37.8	38.4	39.7	41.6	35.8	36.3	37.6	39.5		
S/T	0.83	0.75	0.62	0.48	1.00	0.76	0.63	0.48	1.00	0.78	0.65	0.51	1.00	0.80	0.67	0.53	1.00	1.00	0.69	0.55	1.00	1.00	0.74	0.60		
ΔT	13.31	12.16	10.01	7.79	13.27	12.13	9.98	7.76	13.44	12.29	10.14	7.92	13.26	12.11	9.97	7.75	13.11	11.96	9.82	7.59	13.83	12.68	10.53	8.31		
kW	2.59	2.59	2.58	2.61	2.91	2.91	2.90	2.93	3.27	3.27	3.26	3.28	3.65	3.65	3.65	3.67	4.09	4.08	4.08	4.10	4.59	4.59	4.58	4.61		
Amps	9.76	9.74	9.72	9.83	11.15	11.14	11.11	11.22	12.70	12.69	12.66	12.77	14.38	14.37	14.34	14.45	16.26	16.25	16.22	16.33	18.46	18.45	18.42	18.53		
Hi-PR	266	267	269	273	307	308	310	314	350	351	353	357	396	397	399	403	446	447	449	453	499	500	502	506		
Lo-PR	131	132	135	141	138	140	143	148	145	147	150	155	151	152	155	161	156	158	161	166	163	165	168	173		

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
Design Subcooling 8 ±2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 15 ±2 °F @ the compressor suction access fitting connection.

Shaded area reflects ACCA (TVA) conditions.

kW = Total system power  
Amps = outdoor unit amps (comp.+fan)



EXPANDED COOLING DATA — APHM54241\*\* (HIGH STAGE) (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																													
		65°F					75°F					85°F					95°F					105°F					115°F				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
80	1225	MBh	42.24	42.83	44.07	45.97	41.86	42.45	43.70	45.60	40.77	41.36	42.61	44.51	38.90	39.49	40.73	42.64	36.61	37.20	38.44	40.35	34.52	35.11	36.35	38.26					
		S/T	1.00	0.81	0.68	0.54	1.00	0.84	0.71	0.57	1.00	1.00	0.71	0.57	1.00	1.00	0.73	0.59	1.00	1.00	0.75	0.61	1.00	1.00	0.80	0.66					
	1300	ΔT	17.10	15.95	13.81	11.58	17.07	15.92	13.78	11.55	17.23	16.08	13.94	11.71	17.06	15.91	13.76	11.54	16.90	15.75	13.61	11.39	17.62	16.47	14.33	12.11					
		kW	2.56	2.56	2.55	2.58	2.88	2.88	2.87	2.90	3.24	3.24	3.23	3.26	3.63	3.62	3.62	3.64	4.06	4.06	4.05	4.07	4.56	4.56	4.56	4.58					
	1575	Amps	9.63	9.62	9.60	9.70	11.02	11.01	10.99	11.10	12.58	12.57	12.54	12.65	14.26	14.25	14.22	14.33	16.13	16.12	16.10	16.21	18.34	18.33	18.30	18.41					
		Hi PR	261.53	262.65	264.48	269.00	302.49	303.62	305.44	309.97	345.41	346.54	348.36	352.89	391.62	392.75	394.58	399.10	441.45	442.58	444.40	448.93	494.62	495.75	497.57	502.10					
		Lo PR	126.82	128.36	131.55	136.89	134.44	135.99	139.18	144.51	141.11	142.66	145.85	151.18	146.76	148.30	151.49	156.83	152.29	153.84	157.03	162.37	159.23	160.78	163.97	169.30					
80	1300	MBh	42.50	43.09	44.34	46.24	42.13	42.72	43.96	45.87	41.04	41.63	42.87	44.78	39.16	39.75	41.00	42.90	36.87	37.46	38.71	40.61	34.78	35.37	36.62	38.52					
		S/T	1.00	0.83	0.70	0.56	1.00	0.84	0.71	0.57	1.00	1.00	0.86	0.73	0.59	1.00	1.00	0.77	0.63	1.00	1.00	0.77	0.63	1.00	1.00	0.82	0.68				
	1575	ΔT	16.80	15.65	13.50	11.28	16.77	15.62	13.47	11.25	16.93	15.78	13.63	11.41	16.75	15.61	13.46	11.24	16.60	15.45	13.31	11.08	17.32	16.17	14.03	11.80					
		kW	2.57	2.57	2.56	2.59	2.89	2.89	2.88	2.91	3.25	3.24	3.24	3.26	3.63	3.63	3.63	3.65	4.07	4.06	4.06	4.08	4.57	4.57	4.56	4.59					
	1575	Amps	9.66	9.65	9.63	9.74	11.06	11.04	11.02	11.13	12.61	12.60	12.57	12.68	14.29	14.28	14.25	14.36	16.17	16.15	16.13	16.24	18.37	18.36	18.33	18.44					
		Hi PR	262.53	263.65	265.48	270.00	303.49	304.62	306.44	310.97	346.41	347.54	349.36	353.89	392.62	393.75	395.58	400.10	442.45	443.58	445.40	449.93	495.62	496.75	498.58	503.10					
		Lo PR	127.69	129.23	132.42	137.76	135.31	136.85	140.04	145.38	141.98	143.53	146.72	152.05	147.63	149.17	152.36	157.70	153.16	154.71	157.90	163.24	160.10	161.65	164.84	170.17					
80	1575	MBh	43.69	44.28	45.53	47.43	43.32	43.91	45.15	47.06	42.23	42.82	44.06	45.97	40.35	40.94	42.19	44.09	38.06	38.65	39.90	41.80	35.97	36.56	37.81	39.71					
		S/T	1.00	0.88	0.74	0.60	1.00	0.88	0.75	0.61	1.00	1.00	0.77	0.63	1.00	1.00	0.79	0.65	1.00	1.00	0.82	0.67	1.00	1.00	0.82	0.73					
	1575	ΔT	15.85	14.70	12.56	10.33	15.82	14.67	12.52	10.30	15.98	14.83	12.69	10.46	15.81	14.66	12.51	10.29	15.65	14.50	12.36	10.14	16.37	15.22	13.08	10.86					
		kW	2.59	2.59	2.58	2.61	2.91	2.91	2.90	2.93	3.27	3.27	3.26	3.29	3.66	3.65	3.65	3.67	4.09	4.09	4.08	4.10	4.59	4.59	4.59	4.61					
	1575	Amps	9.76	9.75	9.73	9.83	11.15	11.14	11.12	11.23	12.71	12.70	12.67	12.78	14.39	14.38	14.35	14.46	16.26	16.25	16.23	16.34	18.47	18.46	18.43	18.54					
		Hi PR	266.17	267.30	269.13	273.65	307.14	308.27	310.09	314.62	350.06	351.19	353.01	357.54	396.27	397.40	399.22	403.75	446.10	447.22	449.05	453.58	499.27	500.40	502.22	506.75					
		Lo PR	131.30	132.85	136.04	141.37	138.92	140.47	143.66	148.99	145.60	147.14	150.33	155.67	151.24	152.79	155.98	161.31	156.78	158.32	161.51	166.85	163.71	165.26	168.45	173.78					

85	1225	MBh	42.9	43.5	44.8	46.7	42.6	43.2	44.4	46.3	41.5	42.1	43.3	45.2	39.6	40.2	41.4	43.3	37.3	37.9	39.1	41.1	35.2	35.8	37.1	39.0
		S/T	1.00	0.91	0.78	0.64	1.00	1.00	0.78	0.64	1.00	1.00	0.81	0.67	1.00	1.00	0.83	0.69	1.00	1.00	0.71	0.57	1.00	1.00	0.76	0.76
	1225	ΔT	19.36	18.21	16.06	13.84	19.32	18.18	16.03	13.81	19.49	18.34	16.19	13.97	19.31	18.16	16.02	13.80	19.16	18.01	15.87	13.64	19.88	18.73	16.58	14.36
		kW	2.57	2.57	2.56	2.59	2.89	2.89	2.88	2.91	3.25	3.24	3.24	3.26	3.63	3.63	3.62	3.65	4.06	4.06	4.06	4.08	4.57	4.57	4.56	4.59
	1300	Amps	9.66	9.65	9.62	9.73	11.05	11.04	11.02	11.12	12.60	12.59	12.57	12.67	14.28	14.27	14.25	14.36	16.16	16.15	16.13	16.23	18.36	18.35	18.33	18.44
		Hi PR	263	264	266	270	304	305	307	311	347	348	350	354	393	394	396	400	443	444	446	450	496	497	499	503
		Lo PR	129	130	133	139	136	138	141	146	143	145	148	153	149	150	153	159	154	156	159	164	161	163	166	171
85	1300	MBh	43.2	43.8	45.0	46.9	42.8	43.4	44.7	46.6	41.7	42.3	43.6	45.5	39.9	40.5	41.7	43.6	37.6	38.2	39.4	41.3	35.5	36.1	37.3	39.2
		S/T	1.00	0.93	0.80	0.66	1.00	1.00	0.81	0.67	1.00	1.00	0.83	0.69	1.00	1.00	0.85	0.71	1.00	1.00	0.73	0.59	1.00	1.00	0.78	0.78
	1300	ΔT	19.05	17.90	15.76	13.54	19.02	17.87	15.73	13.51	19.18	18.03	15.89	13.67	19.01	17.86	15.72	13.49	18.86	17.71	15.56	13.34	19.58	18.43	16.28	14.06
		kW	2.58	2.57	2.57	2.59	2.90	2.89	2.89	2.91	3.25	3.25	3.24	3.27	3.64	3.64	3.63	3.66	4.07	4.07	4.06	4.09	4.58	4.58	4.57	4.59
	1575	Amps	9.69	9.68	9.66	9.76	11.08	11.07	11.05	11.15	12.63	12.62	12.60	12.71	14.32	14.30	14.28	14.39	16.19	16.18	16.16	16.26	18.40	18.38	18.36	18.47
		Hi PR	264	265	267	271	305	306	308	312	348	349	351	355	394	395	397	401	444	445	447	451	497	498	500	504
		Lo PR	130	131	134	140	137	139	142	147	144	145	149	154	150	151	154	160	155	157	160	165	162	164	167	172
85	1575	MBh	44.4	45.0	46.2	48.1	44.0	44.6	45.9	47.8	42.9	43.5	44.8	46.7	41.1	41.6	42.9	44.8	38.8	39.4	40.6	42.5	36.7	37.3	38.5	40.4
		S/T	1.00	0.98	0.84	0.70	1.00	1.00	0.85	0.71	1.00	1.00	0.87	0.73	1.00	1.00	0.89	0.75	1.00	1.00	0.77	0.63	1.00	1.00	0.83	0.83
	1575	ΔT	18.10	16.96	14.81	12.59	18.07	16.92	14.78	12.56	18.23	17.09	14.94	12.72	18.06	16.91	14.77	12.55	17.91	16.76	14.61	12.39	18.63	17.48	15.33	13.11
		kW	2.60	2.60	2.59	2.61	2.92	2.92	2.91	2.93	3.28	3.27	3.27	3.29	3.66	3.66	3.65	3.68	4.09	4.09	4.09	4.11	4.60	4.60	4.59	4.62
	1575	Amps	9.79	9.78	9.75	9.86	11.18	11.17	11.15	11.25	12.73	12.72	12.70	12.80	14.41	14.40	14.38	14.48	16.29	16.28	16.26	16.36	18.49	18.48	18.46	18.56
		Hi PR	267	269	270	275	308	309	311	316	351	352	354	359	397	399	400	405	447	448	450	455	500	502	503	508
		Lo PR	133	135	138	143	141	142	146	151	147	149	152	158	153	155	158	163	159	160	163	169	166	167	170	176

Shaded area reflects AHRI conditions.

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.

kW = Total system power  
Amps = outdoor unit amps (comp.+fan)

EXPANDED COOLING DATA — APHM54241\*\* (LOW STAGE)

IDB		OUTDOOR AMBIENT TEMPERATURE																																																																																																																																																																																	
		65°F						75°F						85°F						95°F						105°F						115°F																																																																																																																																																			
		59	63	67	71	71	71	59	63	67	71	71	71	59	63	67	71	71	71	59	63	67	71	71	71	59	63	67	71	71	71	59	63	67	71	71	71																																																																																																																																														
70		MBh	30.2	30.6	31.5	-	29.9	30.4	31.2	-	29.1	29.6	30.5	-	27.8	28.2	29.1	-	26.1	26.6	27.5	-	24.6	25.1	26.0	-	S/T	0.65	0.57	0.44	-	0.66	0.58	0.44	-	1.00	0.61	0.47	-	1.00	0.63	0.49	-	1.00	0.65	0.51	-	1.00	1.00	0.56	-	ΔT	11.61	10.50	8.43	-	11.58	10.47	8.40	-	11.74	10.63	8.56	-	11.57	10.46	8.39	-	11.42	10.31	8.24	-	12.11	11.01	8.94	-	kW	1.61	1.61	1.61	-	1.81	1.81	1.81	-	2.04	2.04	2.03	-	2.28	2.28	2.28	-	2.55	2.55	2.55	-	2.87	2.87	2.87	-	Amps	6.06	6.05	6.04	-	6.94	6.93	6.91	-	7.91	7.90	7.89	-	8.97	8.96	8.95	-	10.15	10.14	10.13	-	11.54	11.53	11.51	-	Hi PR	249	250	252	-	289	290	291	-	330	331	332	-	374	375	377	-	421	422	424	-	472	473	475	-	Lo PR	130	131	135	-	138	139	142	-	144	146	149	-	150	152	155	-	156	158	161	-	163	165	168	-			
		MBh	30.4	30.8	31.7	-	30.1	30.5	31.4	-	29.3	29.8	30.7	-	28.0	28.4	29.3	-	26.3	26.8	27.7	-	24.8	25.3	26.2	-	S/T	0.68	0.60	0.46	-	0.68	0.60	0.47	-	1.00	0.63	0.49	-	1.00	0.65	0.51	-	1.00	0.67	0.53	-	1.00	1.00	0.59	-	ΔT	11.32	10.21	8.14	-	11.29	10.18	8.11	-	11.44	10.33	8.26	-	11.28	10.17	8.10	-	11.13	10.02	7.95	-	11.82	10.71	8.64	-	kW	1.62	1.62	1.61	-	1.82	1.82	1.81	-	2.04	2.04	2.04	-	2.29	2.28	2.28	-	2.56	2.56	2.55	-	2.88	2.87	2.87	-	Amps	6.08	6.07	6.06	-	6.95	6.95	6.93	-	7.93	7.92	7.91	-	8.99	8.98	8.97	-	10.17	10.16	10.15	-	11.55	11.55	11.53	-	Hi PR	250	251	253	-	289	291	292	-	330	332	333	-	375	376	377	-	422	423	425	-	473	474	476	-	Lo PR	131	132	136	-	138	140	143	-	145	147	150	-	151	153	156	-	157	158	162	-	164	166	169	-			
		MBh	31.2	31.7	32.6	-	31.0	31.4	32.3	-	30.2	30.6	31.5	-	28.8	29.3	30.2	-	27.2	27.6	28.5	-	25.7	26.1	27.0	-	S/T	0.72	0.64	0.51	-	0.73	0.65	0.51	-	1.00	0.67	0.54	-	1.00	0.69	0.56	-	1.00	0.72	0.58	-	1.00	1.00	0.63	-	ΔT	10.40	9.29	7.22	-	10.37	9.26	7.19	-	10.53	9.42	7.35	-	10.36	9.25	7.18	-	10.21	9.10	7.03	-	10.91	9.80	7.73	-	kW	1.63	1.63	1.63	-	1.83	1.83	1.83	-	2.06	2.06	2.05	-	2.30	2.30	2.29	-	2.57	2.57	2.57	-	2.89	2.89	2.89	-	Amps	6.14	6.13	6.12	-	7.02	7.01	6.99	-	7.99	7.99	7.97	-	9.05	9.04	9.03	-	10.23	10.22	10.21	-	11.62	11.61	11.59	-	Hi PR	254	255	257	-	293	294	296	-	334	335	337	-	378	379	381	-	426	427	429	-	477	478	479	-	Lo PR	134	136	139	-	142	144	147	-	149	151	154	-	155	156	160	-	161	162	165	-	168	169	173	-			
		75		MBh	30.2	30.6	31.5	32.9	29.9	30.4	31.3	32.6	29.2	29.6	30.5	31.8	27.8	28.2	29.1	30.5	26.2	26.6	27.5	28.9	24.7	25.1	26.0	27.4	S/T	0.78	0.70	0.57	0.42	1.00	0.71	0.57	0.43	1.00	0.74	0.60	0.48	1.00	0.76	0.62	0.47	1.00	1.00	0.64	0.50	1.00	1.00	0.69	0.55	ΔT	14.05	12.94	10.87	8.72	14.02	12.91	10.84	8.69	14.17	13.06	10.99	8.85	14.01	12.90	10.83	8.68	13.86	12.75	10.68	8.54	14.55	13.44	11.37	9.23	kW	1.61	1.61	1.61	1.62	1.81	1.81	1.81	1.82	2.04	2.04	2.03	2.05	2.28	2.28	2.27	2.29	2.55	2.55	2.55	2.56	2.87	2.87	2.87	2.88	Amps	6.05	6.05	6.03	6.10	6.93	6.92	6.91	6.97	7.91	7.90	7.88	7.95	8.96	8.96	8.94	9.01	10.14	10.14	10.12	10.19	11.53	11.52	11.51	11.57	Hi PR	250	251	252	257	289	290	292	296	330	331	333	337	374	375	377	381	422	423	424	429	472	473	475	480	Lo PR	130	131	135	140	138	139	143	148	144	146	149	155	150	152	155	161	156	156	158	161	163	165	168	173	
				MBh	30.4	30.8	31.7	33.1	30.1	30.6	31.5	32.8	29.4	29.8	30.7	32.0	28.0	28.4	29.3	30.7	28.4	26.4	26.8	27.7	29.0	24.9	25.3	26.2	27.5	S/T	0.81	0.73	0.59	0.45	1.00	0.74	0.60	0.45	1.00	0.76	0.62	0.48	1.00	0.78	0.64	0.50	1.00	1.00	0.67	0.52	1.00	1.00	0.72	0.57	ΔT	13.76	12.65	10.58	8.43	13.72	12.62	10.55	8.40	13.88	12.77	10.70	8.56	13.71	12.60	10.53	8.39	13.57	12.46	10.39	8.24	14.26	13.15	11.08	8.94	kW	1.62	1.61	1.61	1.63	1.82	1.81	1.81	1.83	2.04	2.04	2.04	2.05	2.28	2.28	2.28	2.29	2.56	2.55	2.55	2.57	2.87	2.87	2.87	2.88	Amps	6.07	6.07	6.05	6.12	6.95	6.94	6.93	6.99	7.93	7.92	7.90	7.97	8.98	8.98	8.96	9.03	10.16	10.16	10.14	10.21	11.55	11.54	11.53	11.59	Hi PR	251	252	253	258	290	291	293	297	331	332	334	338	375	376	378	382	423	424	425	430	473	474	476	481	Lo PR	131	132	136	141	139	140	143	149	145	147	150	156	151	153	156	162	157	157	158	162	164	166	169	174
				MBh	31.3	31.7	32.6	33.9	31.0	31.4	32.3	33.7	30.2	30.6	31.5	32.9	28.9	29.3	30.2	31.5	27.2	27.6	28.5	29.9	25.7	26.1	27.0	28.4	S/T	1.00	0.77	0.64	0.49	1.00	0.78	0.64	0.50	1.00	0.81	0.67	0.52	1.00	0.81	0.69	0.54	1.00	1.00	0.71	0.57	1.00	1.00	0.76	0.62	ΔT	12.84	11.73	9.66	7.52	12.81	11.70	9.63	7.49	12.97	11.86	9.79	7.64	12.80	11.69	9.62	7.48	12.65	11.54	9.47	7.33	13.34	12.24	10.17	8.02	kW	1.63	1.63	1.62	1.64	1.83	1.83	1.83	1.84	2.06	2.05	2.05	2.07	2.30	2.30	2.29	2.31	2.57	2.57	2.57	2.58	2.89	2.89	2.88	2.90	Amps	6.14	6.13	6.11	6.18	7.01	7.00	6.99	7.06	7.99	7.98	7.97	8.03	9.04	9.04	9.02	9.09	10.23	10.22	10.20	10.27	11.61	11.60	11.59	11.66	Hi PR	254	255	257	261	293	294	296	300	334	335	337	341	378	379	381	386	426	427	429	433	477	478	480	484	Lo PR	134	136	139	145	142	144	147	153	149	151	154	159	155	156	160	165	161	161	162	165	171	168	169	173	178

IDB: Entering Indoor Dry Bulb Temperature  
 High and low pressures are measured at the liquid and suction access fittings.  
 Design Subcooling 8 ±2 °F @ the liquid access fitting connection AHRJ 95 test conditions. Design Superheat 15 ±2 °F @ the compressor suction access fitting connection.  
 Shaded area reflects ACCA (TVA) conditions.  
 kW = Total system power  
 Amps = outdoor unit amps (comp.+fan)







**EXPANDED COOLING DATA — APHM54841\*\* (LOW STAGE)**

IDB		OUTDOOR AMBIENT TEMPERATURE																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
		AIRFLOW		ENTERING INDOOR WET BULB TEMPERATURE																																	
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
<b>70</b>	MBh	34.0	34.5	35.5	-	33.7	34.2	35.2	-	32.8	33.3	34.3	-	31.3	31.8	32.8	-	29.4	29.9	30.9	-	27.7	28.2	29.2	-	-	-	-	-	-							
	S/T	0.64	0.56	0.42	-	0.65	0.57	0.42	-	0.67	0.59	0.45	-	1.00	0.61	0.47	-	1.00	0.64	0.49	-	1.00	0.69	0.55	-	-	-	-	-	-							
	ΔT	12.97	11.77	9.53	-	12.94	11.74	9.50	-	13.11	11.91	9.67	-	12.93	11.73	9.49	-	12.77	11.57	9.33	-	13.52	12.32	10.08	-	-	-	-	-	-							
	kW	1.87	1.87	1.87	-	2.10	2.10	2.09	-	2.35	2.35	2.35	-	2.63	2.62	2.62	-	2.93	2.93	2.93	-	3.29	3.29	3.29	-	-	-	-	-	-							
	Amps	6.75	6.74	6.72	-	7.74	7.73	7.71	-	8.84	8.83	8.81	-	10.03	10.02	10.01	-	11.36	11.36	11.34	-	12.93	12.92	12.90	-	-	-	-	-	-							
	Hi PR	259	260	262	-	300	301	303	-	343	344	346	-	389	390	392	-	438	440	441	-	491	493	494	-	-	-	-	-	-							
	Lo PR	128	129	132	-	135	137	140	-	142	144	147	-	148	149	153	-	154	155	158	-	161	162	165	-	-	-	-	-	-							
MBh	34.5	34.9	36.0	-	34.2	34.6	35.7	-	33.3	33.7	34.8	-	31.7	32.2	33.2	-	29.9	30.4	31.4	-	28.2	28.6	29.7	-	-	-	-	-	-								
S/T	0.70	0.62	0.48	-	0.71	0.63	0.49	-	1.00	0.66	0.51	-	1.00	0.68	0.53	-	1.00	0.70	0.56	-	1.00	1.00	0.61	-	-	-	-	-	-								
ΔT	12.25	11.05	8.81	-	12.21	11.01	8.77	-	12.38	11.18	8.94	-	12.20	11.00	8.76	-	12.04	10.84	8.60	-	12.79	11.59	9.35	-	-	-	-	-	-								
kW	1.88	1.88	1.88	-	2.11	2.11	2.10	-	2.36	2.36	2.36	-	2.64	2.64	2.63	-	2.94	2.94	2.94	-	3.30	3.30	3.30	-	-	-	-	-	-								
Amps	6.80	6.79	6.77	-	7.79	7.78	7.76	-	8.89	8.88	8.86	-	10.08	10.07	10.06	-	11.42	11.41	11.39	-	12.98	12.97	12.96	-	-	-	-	-	-								
Hi PR	261	262	264	-	302	303	305	-	345	346	348	-	391	392	394	-	441	442	444	-	494	495	497	-	-	-	-	-	-								
Lo PR	129	131	134	-	137	139	142	-	144	146	149	-	150	151	155	-	155	157	160	-	162	164	167	-	-	-	-	-	-								
MBh	35.0	35.5	36.5	-	34.7	35.2	36.2	-	33.8	34.3	35.3	-	32.3	32.8	33.8	-	30.4	30.9	31.9	-	28.7	29.2	30.2	-	-	-	-	-	-								
S/T	0.74	0.66	0.52	-	0.74	0.66	0.52	-	1.00	0.69	0.55	-	1.00	0.71	0.57	-	1.00	0.73	0.59	-	1.00	1.00	0.65	-	-	-	-	-	-								
ΔT	11.64	10.44	8.20	-	11.60	10.40	8.16	-	11.77	10.57	8.33	-	11.59	10.39	8.15	-	11.43	10.23	7.99	-	12.18	10.98	8.74	-	-	-	-	-	-								
kW	1.89	1.89	1.89	-	2.12	2.12	2.11	-	2.37	2.37	2.37	-	2.65	2.65	2.64	-	2.95	2.95	2.95	-	3.31	3.31	3.31	-	-	-	-	-	-								
Amps	6.84	6.83	6.82	-	7.83	7.82	7.80	-	8.93	8.92	8.91	-	10.13	10.12	10.10	-	11.46	11.45	11.43	-	13.02	13.02	13.00	-	-	-	-	-	-								
Hi PR	263	264	266	-	304	305	307	-	347	348	350	-	393	394	396	-	443	444	446	-	496	497	499	-	-	-	-	-	-								
Lo PR	132	133	136	-	139	141	144	-	146	148	151	-	152	153	157	-	157	159	162	-	165	166	169	-	-	-	-	-	-								

<b>75</b>	MBh	34.0	34.5	35.5	37.1	33.7	34.2	35.2	36.8	32.8	33.3	34.3	35.9	31.3	31.8	32.8	34.4	29.4	29.9	30.9	32.5	27.7	28.2	29.2	30.8
	S/T	0.78	0.70	0.55	0.40	1.00	0.70	0.56	0.41	1.00	0.73	0.59	0.43	1.00	0.75	0.61	0.45	1.00	1.00	0.63	0.48	1.00	1.00	0.68	0.53
	ΔT	15.61	14.41	12.17	9.85	15.58	14.38	12.14	9.82	15.74	14.55	12.31	9.98	15.56	14.36	12.12	9.80	15.40	14.20	11.96	9.64	16.15	14.96	12.72	10.39
	kW	1.87	1.87	1.86	1.88	2.10	2.09	2.09	2.11	2.35	2.35	2.34	2.36	2.62	2.62	2.62	2.64	2.93	2.93	2.93	2.94	3.29	3.29	3.29	3.30
	Amps	6.74	6.73	6.72	6.79	7.73	7.72	7.70	7.78	8.83	8.82	8.81	8.88	10.03	10.02	10.00	10.08	11.36	11.35	11.33	11.41	12.92	12.91	12.90	12.97
	Hi PR	259	260	262	267	300	301	303	307	343	344	346	350	389	390	392	396	439	440	442	446	492	493	495	499
	Lo PR	128	129	132	138	135	137	140	146	142	144	147	152	148	149	153	158	154	155	158	164	161	162	165	171
MBh	34.48	35.0	36.0	37.5	34.2	34.7	35.7	37.2	33.3	33.8	34.8	36.3	31.8	<b>32.2</b>	33.3	34.8	29.9	30.4	31.4	32.9	28.2	28.7	29.7	31.2	
S/T	0.84	0.76	0.62	0.46	1.00	0.77	0.62	0.47	1.00	0.79	0.65	0.50	1.00	<b>0.81</b>	0.67	0.52	1.00	1.00	0.69	0.54	1.00	1.00	0.75	0.60	
ΔT	14.88	13.68	11.44	9.12	14.85	13.65	11.41	9.09	15.02	13.82	11.58	9.26	14.84	<b>13.64</b>	11.40	9.08	14.68	13.48	11.24	8.92	15.43	14.23	11.99	9.67	
kW	1.88	1.88	1.88	1.89	2.11	2.11	2.10	2.12	2.36	2.36	2.36	2.37	2.64	<b>2.63</b>	2.63	2.65	2.94	2.94	2.94	2.95	3.30	3.30	3.30	3.31	
Amps	6.79	6.78	6.77	6.84	7.78	7.77	7.76	7.83	8.88	8.88	8.86	8.93	10.08	<b>10.07</b>	10.05	10.13	11.41	11.40	11.38	11.46	12.97	12.97	12.95	13.02	
Hi PR	261	262	264	269	302	303	305	310	345	346	348	352	391	<b>392</b>	394	399	441	442	444	448	494	495	497	501	
Lo PR	129	131	134	140	137	139	142	147	144	146	149	154	150	<b>151</b>	155	160	155	157	160	166	162	164	167	173	
MBh	35.0	35.5	36.5	38.1	34.7	35.2	36.2	37.8	33.8	34.3	35.3	36.9	32.3	32.8	33.8	35.3	30.4	30.9	31.9	33.5	28.7	29.2	30.2	31.8	
S/T	0.87	0.79	0.65	0.50	1.00	0.80	0.66	0.51	1.00	0.83	0.68	0.53	1.00	0.85	0.70	0.55	1.00	1.00	0.73	0.58	1.00	1.00	0.78	0.63	
ΔT	14.27	13.07	10.83	8.51	14.24	13.04	10.80	8.48	14.41	13.21	10.97	8.65	14.23	13.03	10.79	8.47	14.07	12.87	10.63	8.31	14.82	13.62	11.38	9.06	
kW	1.89	1.89	1.89	1.90	2.12	2.12	2.11	2.13	2.37	2.37	2.37	2.38	2.65	2.64	2.64	2.66	2.95	2.95	2.95	2.96	3.31	3.31	3.31	3.32	
Amps	6.84	6.83	6.81	6.89	7.82	7.82	7.80	7.87	8.93	8.92	8.90	8.98	10.12	10.11	10.09	10.17	11.45	11.44	11.43	11.50	13.02	13.01	12.99	13.07	
Hi PR	263	265	266	271	304	305	307	312	347	348	350	355	393	394	396	401	443	444	446	450	496	497	499	503	
Lo PR	132	133	136	142	139	141	144	150	146	148	151	156	152	153	157	162	157	159	162	168	165	166	169	175	

IDB: Entering Indoor Dry Bulb Temperature  
 High and low pressures are measured at the liquid and suction access fittings.  
 Design Subcooling 8 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15 ± 2 °F @ the compressor suction access fitting connection.  
 Shaded area reflects ACCA (TVA) conditions.

kW = Total system power  
 Amps = outdoor unit amps (comp.+fan)













**EXPANDED HEATING DATA**

**APHM52441**

**HIGH STAGE**

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	30.28	28.21	26.35	24.20	22.80	21.68	18.93	16.48	14.49	12.98	11.82	11.20	10.43	8.49	6.56	4.63	2.69
T/R	31.49	29.45	27.40	25.36	24.13	22.94	20.03	17.44	15.33	13.74	12.51	11.85	11.03	8.99	6.94	4.90	2.85
kW	2.09	2.05	2.00	1.96	1.94	1.92	1.88	1.84	1.79	1.75	1.71	1.68	1.67	1.62	1.58	1.54	1.50
Amps	7.69	7.51	7.33	7.14	7.03	6.96	6.78	6.59	6.41	6.22	6.04	5.93	5.86	5.67	5.49	5.31	5.12
COP	4.25	4.04	3.85	3.61	3.45	3.31	2.95	2.63	2.37	2.17	2.03	1.95	1.83	1.53	1.22	0.88	0.53
HI PR	389.62	376.95	364.28	351.60	344.00	338.93	326.26	313.58	300.91	288.24	275.57	267.96	262.89	250.22	237.55	224.87	212.20
LO PR	140.98	132.20	123.43	114.66	109.40	105.89	97.12	88.35	79.58	70.81	62.04	56.77	53.27	44.50	35.72	26.95	18.18

**APHM52441**

**LOW STAGE**

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	21.85	20.35	19.01	17.47	16.45	15.53	13.32	11.38	9.80	8.60	7.66	7.15	6.53	4.98	3.43	1.88	0.33
T/R	33.03	30.77	28.61	26.27	24.87	23.48	20.13	17.20	14.82	13.00	11.57	10.81	9.87	7.53	5.19	2.84	0.50
kW	1.27	1.23	1.19	1.14	1.12	1.10	1.06	1.02	0.97	0.93	0.89	0.86	0.84	0.80	0.76	0.71	0.67
Amps	4.57	4.38	4.19	4.01	3.89	3.82	3.63	3.44	3.25	3.07	2.88	2.77	2.69	2.50	2.32	2.13	1.94
COP	5.02	4.84	4.69	4.47	4.31	4.13	3.69	3.28	2.96	2.71	2.53	2.44	2.27	1.83	1.33	0.77	0.15
HI PR	377.60	365.31	353.03	340.75	333.38	328.47	316.19	303.91	291.62	279.34	267.06	259.69	254.78	242.50	230.21	217.93	205.65
LO PR	138.50	129.88	121.26	112.65	107.48	104.03	95.41	86.80	78.18	69.56	60.95	55.78	52.33	43.71	35.10	26.48	17.86

**APHM53041**

**HIGH STAGE**

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	35.76	33.47	31.23	29.02	27.60	26.56	23.91	21.46	19.46	17.98	16.89	16.30	15.55	13.66	11.78	9.90	8.01
T/R	30.32	28.66	27.00	25.34	24.34	23.42	21.09	18.93	17.16	15.86	14.89	14.37	13.71	12.05	10.39	8.73	7.07
kW	2.41	2.39	2.37	2.36	2.34	2.34	2.32	2.30	2.28	2.26	2.24	2.23	2.22	2.21	2.19	2.17	2.15
Amps	8.82	8.74	8.66	8.58	8.53	8.50	8.41	8.33	8.25	8.17	8.09	8.04	8.01	7.93	7.84	7.76	7.68
COP	4.34	4.10	3.85	3.61	3.45	3.33	3.02	2.74	2.50	2.33	2.21	2.14	2.05	1.82	1.58	1.34	1.09
HI PR	411.82	398.43	385.03	371.64	363.60	358.24	344.85	331.45	318.06	304.66	291.27	283.23	277.87	264.48	251.08	237.69	224.29
LO PR	132.73	124.47	116.21	107.95	103.00	99.70	91.44	83.18	74.92	66.67	58.41	53.45	50.15	41.89	33.63	25.38	17.12

**APHM53041**

**LOW STAGE**

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	26.45	24.64	22.89	21.07	19.91	19.00	16.76	14.74	13.09	11.85	10.91	10.41	9.77	8.19	6.60	5.02	3.44
T/R	32.71	30.69	28.67	26.64	25.43	24.27	21.40	18.82	16.72	15.14	13.94	13.29	12.48	10.46	8.43	6.41	4.39
kW	1.48	1.45	1.41	1.38	1.35	1.34	1.30	1.27	1.23	1.20	1.16	1.14	1.13	1.09	1.05	1.02	0.98
Amps	5.30	5.14	4.99	4.83	4.74	4.68	4.52	4.37	4.21	4.06	3.90	3.81	3.74	3.59	3.43	3.28	3.12
COP	5.23	4.99	4.75	4.49	4.31	4.16	3.77	3.40	3.11	2.90	2.75	2.68	2.54	2.20	1.84	1.44	1.02
HI PR	399.11	386.13	373.15	360.17	352.38	347.18	334.20	321.22	308.24	295.26	282.28	274.49	269.29	256.31	243.33	230.35	217.37
LO PR	130.40	122.28	114.17	106.06	101.19	97.94	89.83	81.72	73.61	65.49	57.38	52.51	49.27	41.16	33.04	24.93	16.82

**APHM53641**

**HIGH STAGE**

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	41.29	38.75	36.24	33.78	32.20	31.05	28.15	25.42	23.18	21.54	20.34	19.70	18.87	16.78	14.70	12.62	10.53
T/R	30.63	29.03	27.42	25.81	24.85	23.97	21.72	19.61	17.89	16.62	15.70	15.20	14.56	12.95	11.34	9.73	8.13
kW	2.76	2.75	2.75	2.74	2.74	2.73	2.73	2.72	2.71	2.71	2.70	2.70	2.70	2.69	2.68	2.68	2.67
Amps	10.09	10.06	10.03	10.01	9.99	9.98	9.95	9.92	9.90	9.87	9.84	9.83	9.82	9.79	9.76	9.73	9.71
COP	4.39	4.13	3.87	3.61	3.45	3.33	3.03	2.74	2.50	2.33	2.21	2.14	2.05	1.83	1.61	1.38	1.16
HI PR	428.36	414.43	400.49	386.56	378.20	372.63	358.69	344.76	330.83	316.90	302.96	294.60	289.03	275.10	261.16	247.23	233.30
LO PR	198.83	186.46	174.09	161.72	154.30	149.35	136.98	124.61	112.24	99.87	87.50	80.08	75.13	62.76	50.39	38.02	25.65

**APHM53641**

**LOW STAGE**

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	30.81	28.68	26.59	24.54	23.23	22.22	19.71	17.43	15.58	14.19	13.14	12.58	11.87	10.09	8.32	6.54	4.77
T/R	33.25	31.25	29.26	27.27	26.07	24.94	22.12	19.57	17.49	15.93	14.75	14.12	13.32	11.33	9.33	7.34	5.35
kW	1.70	1.67	1.63	1.60	1.58	1.57	1.53	1.50	1.47	1.43	1.40	1.38	1.36	1.33	1.30	1.26	1.23
Amps	6.09	5.94	5.80	5.65	5.56	5.50	5.36	5.21	5.06	4.92	4.77	4.68	4.62	4.48	4.33	4.18	4.04
COP	5.31	5.04	4.77	4.49	4.31	4.16	3.77	3.41	3.12	2.90	2.75	2.68	2.55	2.22	1.88	1.52	1.14
HI PR	415.14	401.63	388.13	374.63	366.53	361.13	347.62	334.12	320.62	307.11	293.61	285.51	280.11	266.61	253.10	239.60	226.10
LO PR	195.34	183.19	171.03	158.88	151.59	146.73	134.57	122.42	110.27	98.11	85.96	78.67	73.81	61.65	49.50	37.35	25.19

**Notes**

Calculations are based on nominal CFM and 70 °F indoor dry bulb.  
Shaded area is AHRI Rating Conditions at 47°F outdoor ambient temperature.

Amps = Outdoor unit amps (comp.+fan)  
kW = Total system power

EXPANDED HEATING DATA (CONT.)

APHM54241

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	52.83	49.23	45.70	42.22	40.00	38.31	34.07	30.21	27.07	24.72	22.95	22.00	20.80	17.80	14.80	11.80	8.80
T/R	36.18	34.05	31.91	29.77	28.49	27.28	24.26	21.52	19.28	17.60	16.35	15.67	14.81	12.68	10.54	8.40	6.27
kW	3.63	3.56	3.50	3.44	3.40	3.37	3.31	3.24	3.18	3.12	3.05	3.01	2.99	2.92	2.86	2.79	2.73
Amps	13.72	13.44	13.16	12.88	12.71	12.60	12.32	12.04	11.76	11.48	11.20	11.04	10.93	10.65	10.37	10.09	9.81
COP	4.27	4.05	3.83	3.60	3.45	3.33	3.02	2.73	2.49	2.33	2.20	2.14	2.04	1.78	1.52	1.24	0.94
HI PR	445.01	430.53	416.06	401.58	392.90	387.11	372.64	358.16	343.69	329.21	314.74	306.05	300.26	285.79	271.31	256.84	242.37
LO PR	193.42	181.39	169.35	157.32	150.10	145.29	133.25	121.22	109.18	97.15	85.12	77.90	73.08	61.05	49.02	36.98	24.95

APHM54241

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	38.33	35.71	33.35	30.64	28.86	27.42	23.91	20.79	18.25	16.32	14.84	14.05	13.06	10.59	8.12	5.65	3.18
T/R	33.29	31.11	28.93	26.75	25.45	24.18	21.09	18.33	16.09	14.39	13.09	12.39	11.52	9.34	7.16	4.98	2.81
kW	2.22	2.15	2.08	2.01	1.96	1.93	1.86	1.79	1.72	1.65	1.58	1.54	1.51	1.44	1.37	1.30	1.23
Amps	7.98	7.67	7.36	7.05	6.87	6.75	6.44	6.13	5.82	5.52	5.21	5.02	4.90	4.59	4.29	3.98	3.67
COP	5.07	4.87	4.71	4.48	4.31	4.15	3.76	3.40	3.10	2.90	2.75	2.68	2.53	2.16	1.74	1.28	0.76
HI PR	431.27	417.24	403.22	389.19	380.77	375.16	361.13	347.11	333.08	319.05	305.02	296.61	291.00	276.97	262.94	248.91	234.88
LO PR	190.02	178.20	166.38	154.56	147.46	142.73	130.91	119.09	107.27	95.44	83.62	76.53	71.80	59.98	48.15	36.33	24.51

APHM54841

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	57.18	53.49	49.86	46.29	44.00	42.31	38.02	34.06	30.82	28.43	26.65	25.70	24.48	21.43	18.38	15.33	12.28
T/R	31.82	30.05	28.29	26.52	25.46	24.49	22.00	19.71	17.84	16.45	15.42	14.87	14.17	12.40	10.64	8.87	7.11
kW	3.87	3.83	3.80	3.76	3.74	3.72	3.69	3.65	3.61	3.58	3.54	3.52	3.51	3.47	3.43	3.40	3.36
Amps	14.28	14.12	13.97	13.81	13.71	13.65	13.49	13.33	13.18	13.02	12.86	12.76	12.70	12.54	12.38	12.23	12.07
COP	4.33	4.09	3.85	3.61	3.45	3.33	3.02	2.73	2.50	2.33	2.21	2.14	2.05	1.81	1.57	1.32	1.07
HI PR	464.26	449.16	434.06	418.96	409.90	403.86	388.76	373.66	358.56	343.46	328.36	319.30	313.26	298.15	283.05	267.95	252.85
LO PR	191.62	179.70	167.77	155.85	148.70	143.93	132.01	120.09	108.17	96.24	84.32	77.17	72.40	60.48	48.56	36.64	24.71

APHM54841

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	42.16	39.28	36.55	33.61	31.74	30.27	26.65	23.39	20.75	18.75	17.22	16.41	15.39	12.83	10.27	7.72	5.16
T/R	32.97	30.91	28.85	26.79	25.56	24.38	21.46	18.84	16.70	15.09	13.87	13.21	12.39	10.33	8.27	6.21	4.16
kW	2.38	2.32	2.26	2.20	2.16	2.14	2.08	2.01	1.95	1.89	1.83	1.80	1.77	1.71	1.65	1.59	1.53
Amps	8.51	8.25	7.98	7.72	7.56	7.46	7.20	6.93	6.67	6.41	6.15	5.99	5.89	5.62	5.36	5.10	4.84
COP	5.20	4.97	4.75	4.49	4.31	4.16	3.76	3.40	3.11	2.90	2.75	2.68	2.54	2.19	1.82	1.42	0.99
HI PR	449.93	435.30	420.66	406.03	397.25	391.39	376.76	362.12	347.49	332.86	318.22	309.44	303.59	288.95	274.32	259.68	245.05
LO PR	188.25	176.54	164.83	153.11	146.09	141.40	129.69	117.98	106.27	94.55	82.84	75.81	71.13	59.42	47.70	35.99	24.28

APHM56041

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	70.72	66.18	61.71	57.32	54.50	52.43	47.15	42.28	38.30	35.35	33.17	32.00	30.50	26.75	23.00	19.25	15.50
T/R	37.04	35.00	32.95	30.91	29.69	28.56	25.68	23.03	20.86	19.25	18.07	17.43	16.61	14.57	12.53	10.48	8.44
kW	4.78	4.74	4.70	4.65	4.63	4.61	4.57	4.53	4.49	4.45	4.41	4.38	4.37	4.32	4.28	4.24	4.20
Amps	18.08	17.90	17.72	17.54	17.43	17.36	17.18	17.00	16.82	16.64	16.46	16.36	16.29	16.11	15.93	15.75	15.57
COP	4.34	4.09	3.85	3.61	3.45	3.33	3.02	2.73	2.50	2.33	2.21	2.14	2.05	1.81	1.57	1.33	1.08
HI PR	402.19	389.11	376.03	362.95	355.10	349.87	336.79	323.70	310.62	297.54	284.46	276.61	271.38	258.29	245.21	232.13	219.05
LO PR	130.15	122.05	113.96	105.86	101.00	97.76	89.66	81.57	73.47	65.37	57.27	52.42	49.18	41.08	32.98	24.88	16.79

APHM56041

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	52.22	48.65	45.24	41.62	39.32	37.51	33.05	29.03	25.77	23.31	21.43	20.43	19.17	16.02	12.88	9.73	6.58
T/R	39.41	36.96	34.51	32.06	30.59	29.19	25.72	22.59	20.05	18.14	16.68	15.90	14.92	12.47	10.02	7.57	5.12
kW	2.94	2.86	2.79	2.72	2.67	2.65	2.57	2.50	2.43	2.35	2.28	2.24	2.21	2.14	2.06	1.99	1.92
Amps	10.88	10.56	10.25	9.93	9.74	9.61	9.30	8.98	8.67	8.35	8.03	7.84	7.72	7.40	7.08	6.77	6.45
COP	5.21	4.98	4.75	4.49	4.31	4.16	3.76	3.40	3.11	2.90	2.75	2.68	2.54	2.20	1.83	1.43	1.01
HI PR	389.78	377.10	364.42	351.75	344.14	339.07	326.39	313.71	301.03	288.36	275.68	268.07	263.00	250.32	237.64	224.97	212.29
LO PR	127.86	119.91	111.95	104.00	99.22	96.04	88.09	80.13	72.18	64.22	56.27	51.49	48.31	40.36	32.40	24.45	16.49

Notes

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

Shaded area is AHRI Rating Conditions at 47°F outdoor ambient temperature.

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

APHM52441**					
COOLING / HP SPEED	ADJUST TAP	CFM*	ELECTRIC HEAT	ADJUST TAP	CFM*
D	Minus	630	D	Minus	630
	Normal	700		Normal	700
	Plus	770		Plus	770
C	Minus	743	C	Minus	743
	Normal	825		Normal	825
	Plus	908		Plus	908
B	Minus**	855	B	Minus**	855
	Normal	950		Normal	950
	Plus	1,045		Plus	1,045
A	Minus	945	A	Minus	945
	Normal	1,050		Normal	1,050
	Plus	1,155		Plus	1,155

\* @ 0.1 - 0.8 ESP  
 \*\* Factory default

APHM54241**					
COOLING / HP SPEED	ADJUST TAP	CFM*	ELECTRIC HEAT	ADJUST TAP	CFM*
D	Minus	1,103	D	Minus	1,103
	Normal	1,225		Normal	1,225
	Plus**	1,348		Plus**	1,348
C	Minus	1,260	C	Minus	1,260
	Normal	1,400		Normal	1,400
	Plus	1,540		Plus	1,540
B	Minus	1,530	B	Minus	1,530
	Normal	1,700		Normal	1,700
	Plus	1,870		Plus	1,870
A	Minus	1,620	A	Minus	1,620
	Normal	1,800		Normal	1,800
	Plus	1,980		Plus	1,980

\* @ 0.1 - 0.8 ESP  
 \*\* Factory default

APHM53041**					
COOLING / HP SPEED	ADJUST TAP	CFM*	ELECTRIC HEAT	ADJUST TAP	CFM*
D	Minus	720	D	Minus	720
	Normal	800		Normal	800
	Plus	880		Plus	880
C	Minus	900	C	Minus	900
	Normal	1,000		Normal	1,000
	Plus	1,100		Plus	1,100
B	Minus	990	B	Minus	990
	Normal**	1,100		Normal**	1,100
	Plus	1,210		Plus	1,210
A	Minus	1,125	A	Minus	1,125
	Normal	1,250		Normal	1,250
	Plus	1,375		Plus	1,375

\* @ 0.1 - 0.8 ESP  
 \*\* Factory default

APHM54841**					
COOLING / HP SPEED	ADJUST TAP	CFM*	ELECTRIC HEAT	ADJUST TAP	CFM*
D	Minus	1,103	D	Minus	1,103
	Normal	1,225		Normal	1,225
	Plus	1,348		Plus	1,348
C	Minus	1,260	C	Minus	1,260
	Normal	1,400		Normal	1,400
	Plus	1,540		Plus	1,540
B	Minus	1,530	B	Minus	1,530
	Normal	1,700		Normal	1,700
	Plus	1,870		Plus	1,870
A	Minus**	1,620	A	Minus**	1,620
	Normal	1,800		Normal	1,800
	Plus	1,980		Plus	1,980

\* @ 0.1 - 0.8 ESP  
 \*\* Factory default

APHM53641**					
COOLING / HP SPEED	ADJUST TAP	CFM*	ELECTRIC HEAT	ADJUST TAP	CFM*
D	Minus	720	D	Minus	720
	Normal	800		Normal	800
	Plus	880		Plus	880
C	Minus	900	C	Minus	900
	Normal	1,000		Normal	1,000
	Plus	1,100		Plus	1,100
B	Minus	990	B	Minus	990
	Normal	1,100		Normal	1,100
	Plus**	1,210		Plus**	1,210
A	Minus	1,125	A	Minus	1,125
	Normal	1,250		Normal	1,250
	Plus	1,375		Plus	1,375

\* @ 0.1 - 0.8 ESP  
 \*\* Factory default

**NOTES**

1. Data shown is dry coil. Wet coil pressure drop is approximately 0.2" H<sub>2</sub>O, for three-row indoor coil; and 0.3" H<sub>2</sub>O, for four-row indoor coil.
2. Data shown does not include filter pressure drop, approx. 0.08" H<sub>2</sub>O.
3. Reduce airflow by 2% for 208V operation.
4. ALL MODELS SHOULD RUN NO LESS THAN 300 CFM/TON.
5. For high static applications, see blower performance table for selecting appropriate speed tap.

APHM56041\*\*

HORIZONTAL FLOW

MOTOR TAP	EXTERNAL STATIC PRESSURE IN W.C.	SCFM	RPM	BHP
T1	0.2	1372	665	0.20
	0.4	1259	734	0.23
	0.6	1133	813	0.25
	0.8	1016	888	0.27
T2	0.2	2176	878	0.69
	0.4	2080	939	0.74
	0.6	1973	1000	0.79
	0.8	1887	1048	0.83
T3	0.2	2176	878	0.69
	0.4	2080	939	0.74
	0.6	1973	1000	0.79
	0.8	1887	1048	0.83
T4	0.2	2234	960	0.86
	0.4	2162	1003	0.9
	0.6	2101	1042	0.83
	0.8	2053	1073	0.96
T5	0.2	2300	982	0.93
	0.4	2222	1025	0.98
	0.6	2170	1061	1.01
	0.8	2120	1095	1.04

DOWNFLOW

MOTOR TAP	EXTERNAL STATIC PRESSURE IN W.C.	SCFM	RPM	BHP
T1	0.2	1380	664	0.20
	0.4	1262	735	0.23
	0.6	1132	811	0.25
	0.8	1006	884	0.27
T2	0.2	2145	902	0.71
	0.4	2056	952	0.75
	0.6	1967	1003	0.79
	0.8	1890	1051	0.83
T3	0.2	2145	902	0.71
	0.4	2056	952	0.75
	0.6	1976	1003	0.79
	0.8	1890	1051	0.83
T4	0.2	2293	950	0.85
	0.4	2195	995	0.89
	0.6	2112	1042	0.93
	0.8	2034	1088	0.97
T5	0.2	2364	971	0.92
	0.4	2274	1019	0.97
	0.6	2190	1063	1.01
	0.8	2113	1110	1.06

NOTES

- Shaded area indicates air flow below 1500 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating.

## HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

MODEL AND HEAT KIT USAGE	CIRCUIT #1		CIRCUIT #2		SINGLE-POINT KIT		ACTUAL kW / BTU @ 240V
	MCA <sup>1</sup>	MOP <sup>2</sup>	MCA <sup>1</sup>	MOP <sup>2</sup>	MCA <sup>1</sup>	MOP <sup>2</sup>	
<b>APHM52441**</b>	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	46	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	58	60	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	71	80	9.5 / 32,400
<b>APHM53041**</b>	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	48	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	60	60	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	73	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	97	100	14.25 / 48,600
<b>APHM53641**</b>	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	51	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	63	70	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	76	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	101	110	14.25 / 48,600
<b>APHM54241**</b>	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	53	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	65	70	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	78	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	102	110	14.25 / 48,600
HKP-20C	43 / 49	45 / 50	43 / 49	45 / 50	127	150	19.0 / 64,800
<b>APHM54841**</b>	5.4	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	59	70	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	71	80	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	84	90	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	109	110	14.25 / 48,600
HKP-20C	43 / 49	45 / 50	43 / 49	45 / 50	134	150	19.0 / 64,800

<sup>1</sup> Minimum Circuit Ampacity @ 208 / 240 V

<sup>2</sup> Maximum Overcurrent Protection device @ 208 / 240 V

\* Revision level that may or may not be designated

C Circuit Breaker option

^ Heat Kit requires three-phase power supply

HKP-15C and HKP-20C replace HKR-15C and HKR-20C respectively to meet new UL1995 requirements.

MODEL AND HEAT KIT USAGE	MCA <sup>1</sup>	MOP <sup>2</sup>	ACTUAL kW / BTU @ 240V	RECOMMENDED AIRFLOW RANGE
<b>APHM56041**</b>	---	---	---	---
EHXD-1S05	65.1	80	5 / 17,000	1500-2500 CFM
EHXD-1S10	91.1	100	10 / 34,000	1500-2500 CFM
EHXD-1S15	117.2	125	15 / 51,000	1500-2500 CFM
EHXD-1S20	143.2	150	20 / 68,200	1500-2500 CFM

<sup>1</sup> Minimum Circuit Ampacity @ 208 / 240 V

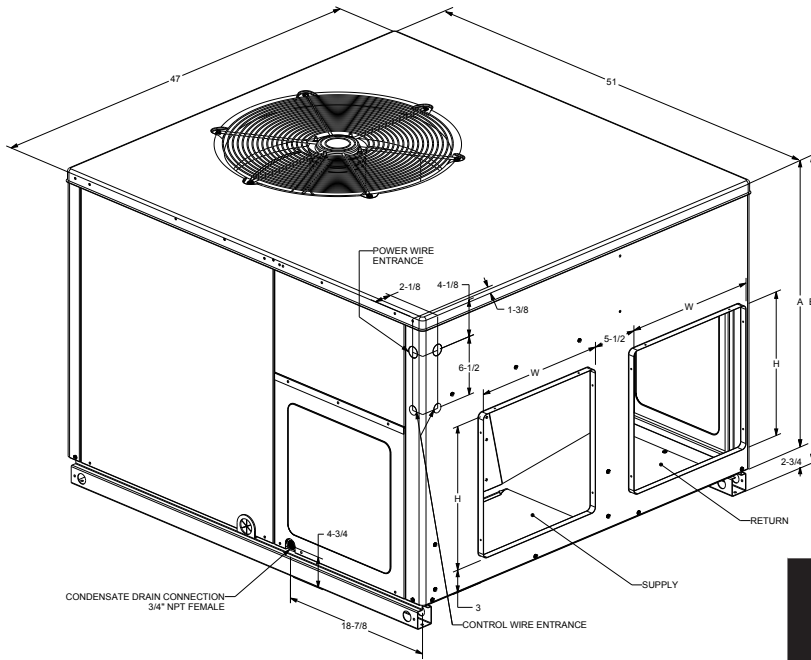
<sup>2</sup> Maximum Overcurrent Protection Device @ 208 / 240 V

### KW CORRECTION FACTORS

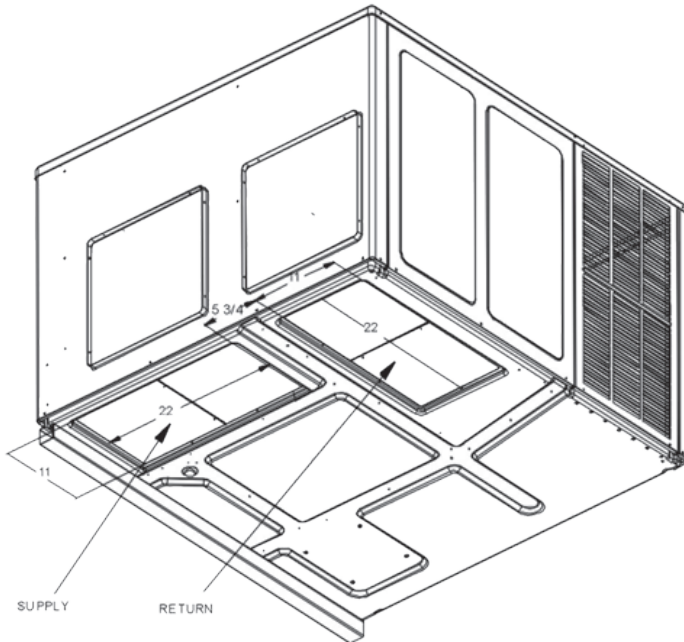
HEATING KW CORRECTION FACTOR					
SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1.0	0.93	0.85	0.78	0.76

Multiply rated kW by correction factor to get actual kW

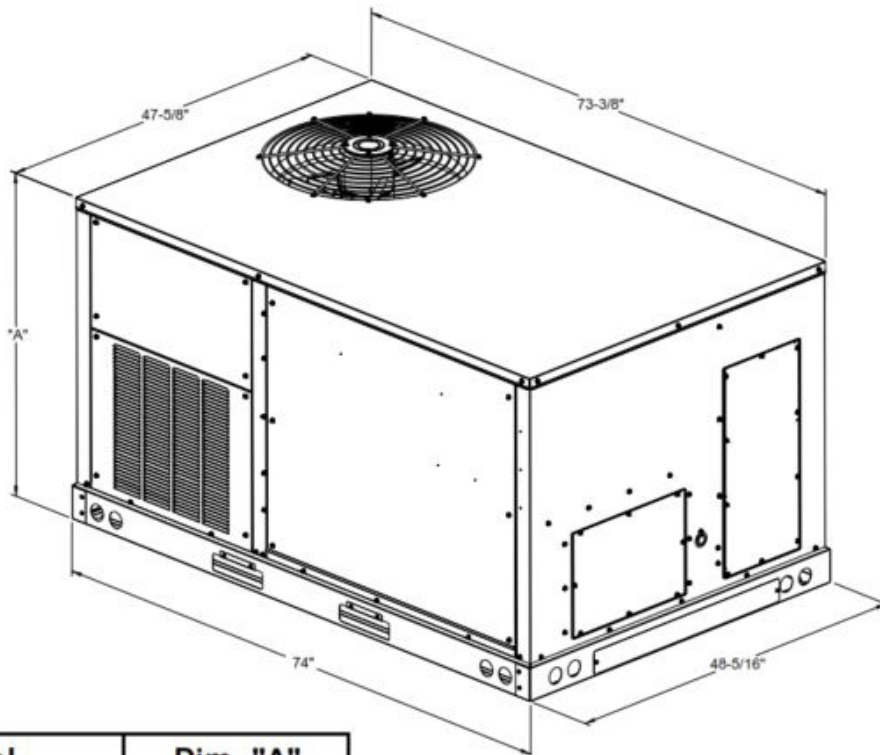




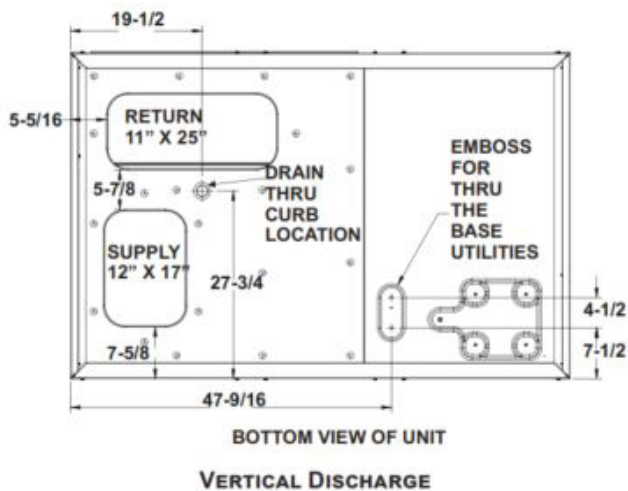
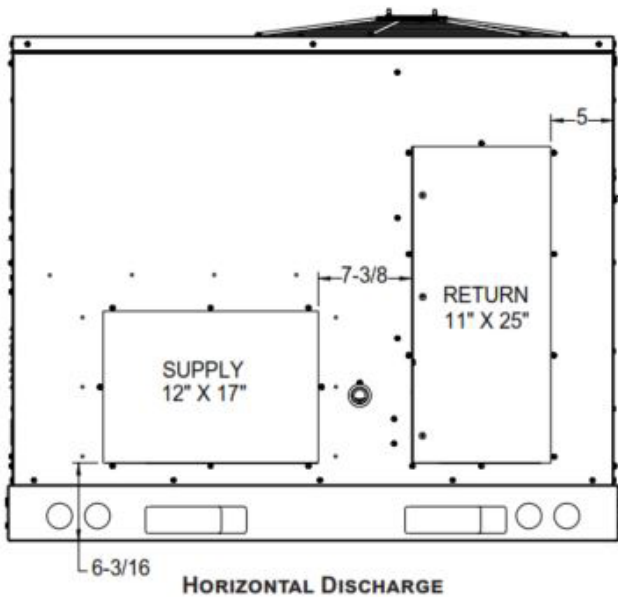
MODEL	UNIT DIMENSIONS (INCHES)				CHASSIS SIZE
	WIDTH		HEIGHT		
	W	D	A	B	
APHM52441**	47	51	32	34 3/4	Medium
APHM53041**	47	51	32	34 3/4	Medium
APHM53641**	47	51	40	42 3/4	Large
APHM54241**	47	51	40	42 3/4	Large
APHM54841**	47	51	40	42 3/4	Large



MODEL	DUCT OPENINGS			
	SUPPLY		RETURN	
	W	H	W	H
APHM52441**	16	16	16	16
APHM53041**	16	16	16	16
APHM53641**	16	18	16	18
APHM54241**	16	18	16	18
APHM54841**	16	18	16	18



Model	Dim. "A"
5 Ton Heat Pump	43-1/2"



NOTE: REFER TO IOD-7082 INCLUDED IN THE LITERATURE PACK FOR INSTALLING HORIZONTAL DUCT COVERS.

Provisions for forks have been included in the unit base frame. No other fork locations are approved.

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from fork lift damage. To remove the struts, extract the sheet metal retainers and pull the struts through the base of the unit. Refer to rigging label on the unit.

Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Duct-work dimensions are shown in Roof Curb Installation Instructions Manual.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end.

Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, take care to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

To assist in determining rigging requirements, unit weights are shown on the following page.

Curb installations must comply with local codes and should follow the established guidelines of the National Roofing Contractors Association.

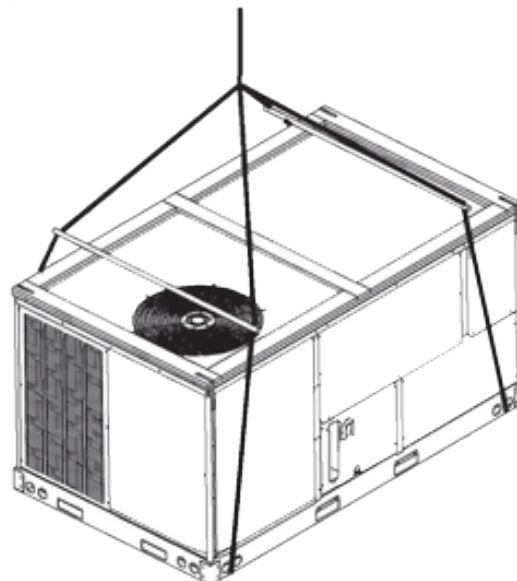
Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory package.

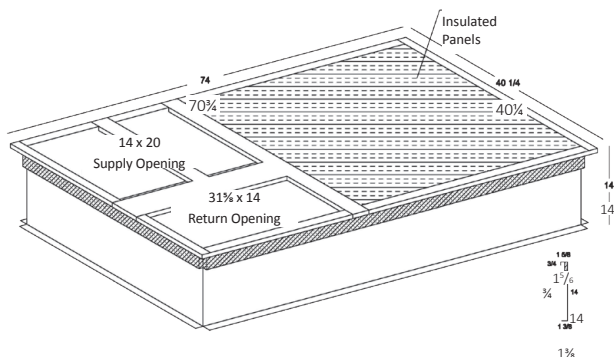
- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered-type curbs are not available from the factory.
- Contractor furnishes curb insulation, cant strips, flashing, and general roofing material.
- Support curbs on parallel sides with roof members. To prevent damage to the unit, the roof members cannot penetrate supply and return duct openings.

Note: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

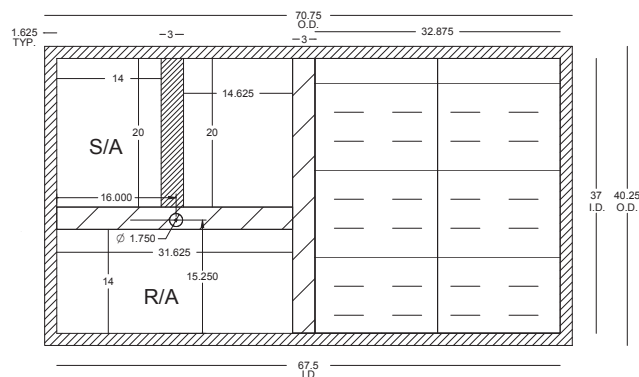
See the manual shipped with the roof curb for assembly and installation instructions.



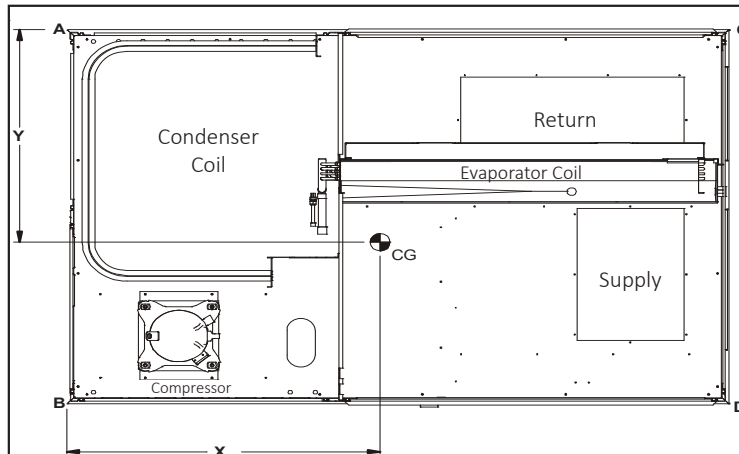
3-D VIEW



TOP VIEW



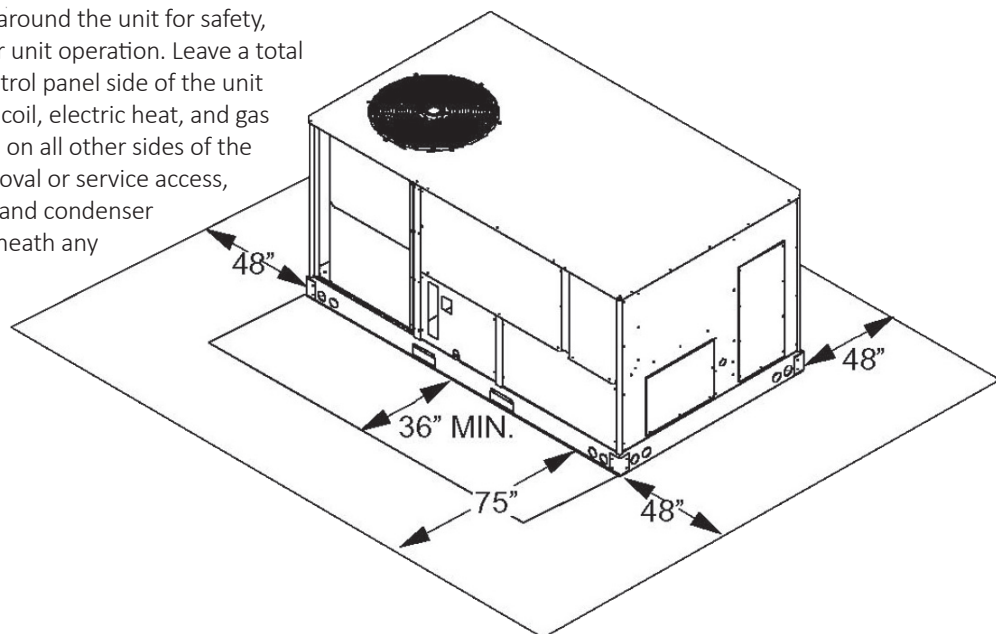
CORNER & CENTER-OF-GRAVITY LOCATIONS

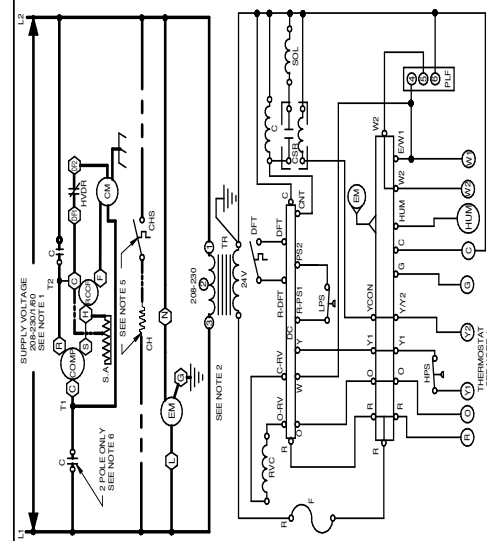
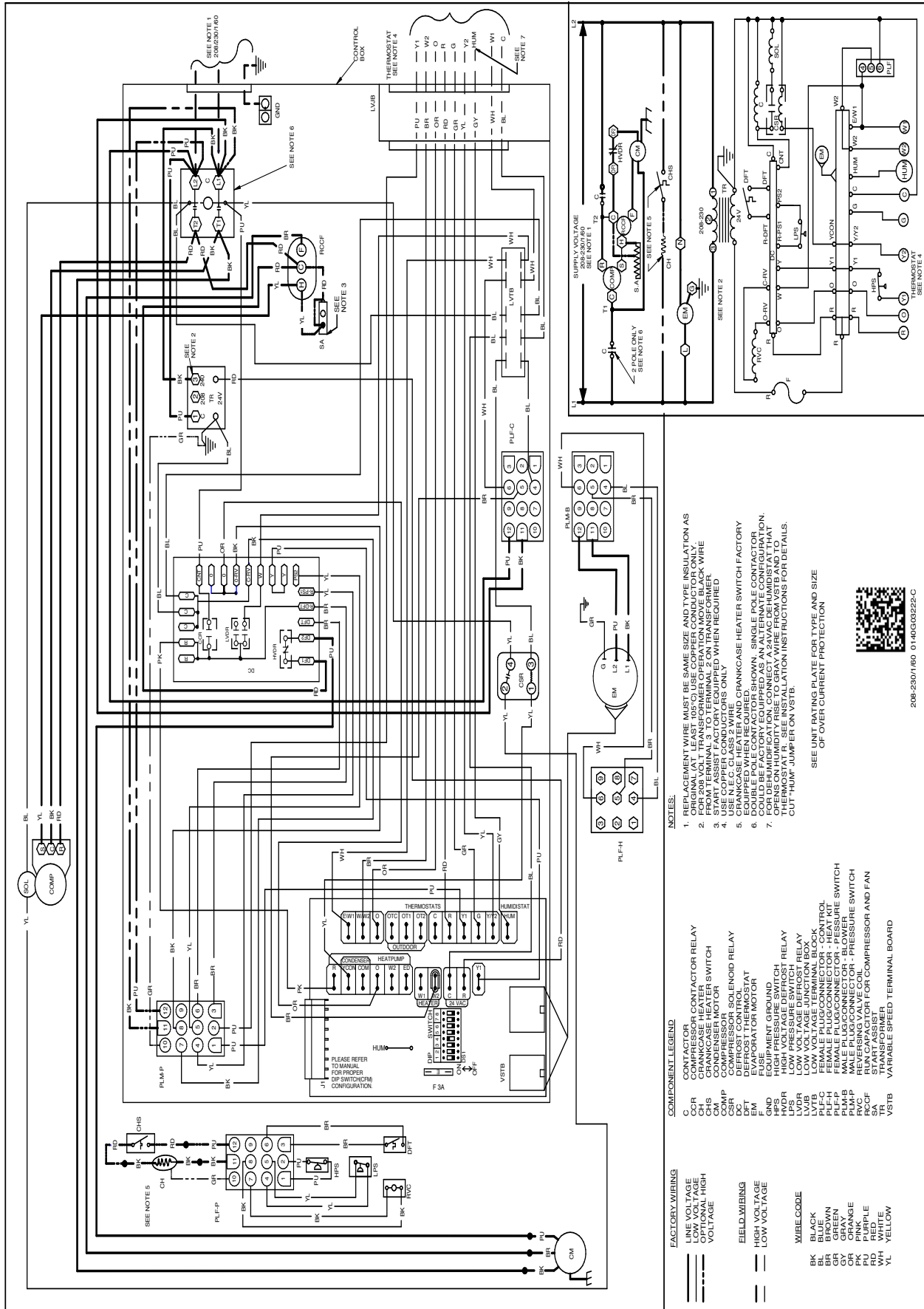


MODEL	X (IN)	Y (IN)	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	CORNER WEIGHTS (LBS.)			
					A	B	C	D
APHM56041**	33.5	27.6	688	630	150	194	165	121

UNIT CLEARANCES

Maintain an adequate clearance around the unit for safety, service, maintenance, and proper unit operation. Leave a total clearance of 75" on the main control panel side of the unit for possible removal of fan shaft, coil, electric heat, and gas furnace. Leave a clearance of 48" on all other sides of the unit for possible compressor removal or service access, and to ensure proper ventilation and condenser airflow. Do not install the unit beneath any obstruction. Install the unit away from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh-air intake.





- NOTES:**
1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL WIRE.
  2. FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
  3. USE COPPER CONDUCTORS ONLY.
  4. USE COPPER CONDUCTORS ONLY WHEN REQUIRED.
  5. USE N.E.C. CLASS 2 WIRE CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
  6. FOR DEHUMIDIFICATION, CONNECT A SAVAC DEHUMIDISTAT THAT COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.
  7. HIGH VOLTAGE DEFOST RELAY IS FACTORY EQUIPPED ON THERMOSTAT R. SEE INSTALLATION INSTRUCTIONS FOR DETAILS. CUT "HUM" JUMPER ON VSTB.

- COMPONENT LEGEND:**
- C CONTACTOR
  - CHS CONTACTOR RELAY
  - CHT CRANKCASE HEATER
  - CHV CRANKCASE HEATER
  - CHW CRANKCASE HEATER
  - CHX COMPRESSOR
  - CHY COMPRESSOR
  - CHZ COMPRESSOR
  - CH1 COMPRESSOR SOLENOID RELAY
  - CH2 DEFROST THERMOSTAT
  - CH3 DEFROST THERMOSTAT
  - CH4 FUSE
  - CH5 EQUIPMENT GROUND
  - CH6 HIGH VOLTAGE DEFOST RELAY
  - CH7 HIGH VOLTAGE DEFOST RELAY
  - CH8 LOW VOLTAGE DEFOST RELAY
  - CH9 LOW VOLTAGE DEFOST RELAY
  - CH10 LOW VOLTAGE DEFOST RELAY
  - CH11 LOW VOLTAGE DEFOST RELAY
  - CH12 LOW VOLTAGE DEFOST RELAY
  - CH13 FEMALE PLUG/CONNECTOR - BLOWER
  - CH14 FEMALE PLUG/CONNECTOR - BLOWER
  - CH15 FEMALE PLUG/CONNECTOR - BLOWER
  - CH16 FEMALE PLUG/CONNECTOR - BLOWER
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  - CH99 FEMALE PLUG/CONNECTOR - BLOWER
  - CH100 FEMALE PLUG/CONNECTOR - BLOWER

- FACTORY WIRING:**
- LOW VOLTAGE
  - HIGH VOLTAGE
- FIELD WIRING:**
- LOW VOLTAGE
- WIRE CODE:**
- BK BLACK
  - BR BROWN
  - GY GRAY
  - OR ORANGE
  - PU PURPLE
  - RD RED
  - SA START ASSIST
  - WH WHITE
  - YL YELLOW



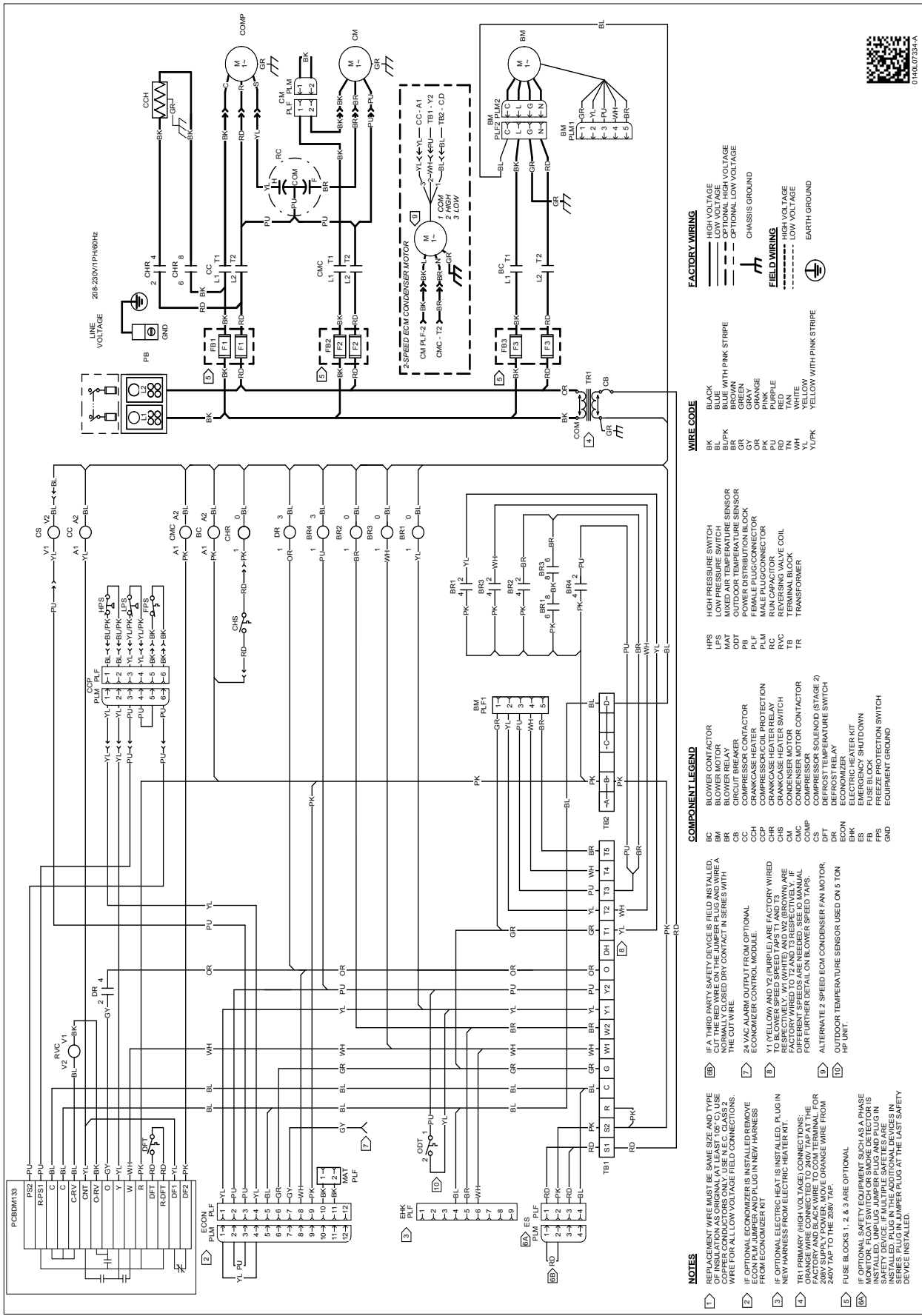
208-230T/160 01-40G03222-C

SEE UNIT RATING PLATE FOR WIRE AND SIZE OF OVER CURRENT PROTECTION

**WARNING**

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.



**WARNING** High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

**FOR APHM5(24-48)41 UNITS**

ACCESSORY DESCRIPTION	ITEM NUMBER	
	MEDIUM CHASSIS	LARGE CHASSIS
Concentric Kit	CDK36	CDK4872
Downflow Economizer	GPJMED102	GPJMED103
Downflow Internal Filter Rack	DDNIFRPCHMM	DDNIFRPCHML
Downflow Manual Damper	PGMDD101/102	PGMDD103
Downflow Motorized Damper	PGMDMD101/102	PGMDMD103
Downflow Square to Round	SQRPG101/102	SQRPG103
Economizer Wiring Harness	0259L00411	0259L00411
External Horizontal Filter Rack	DPHFRA	DPHFRA
Horizontal Duct Cover	20464501PDGK	20464502PDGK
Horizontal Economizer	DHZECNJPGCHM	DHZECNJPGCHL
Horizontal Manual Damper	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH102	PGMDMH103
Horizontal Square to Round	SQRPGH102	SQRPGH103
Outdoor Thermostat Kit w/ Lockout Stat	OT18-60A	OT18-60A
Outdoor Thermostat Kit (Used only with APHM52441 and APHM53041 models)	OTHPKG-01	N/A
Roof Curb	D14CRBPGCHMA	D14CRBPGCHMA

**FOR APHM56041 UNIT**

ITEM #	DESCRIPTION
0221L00014	14" Roof Curb
0270L01166	25% Manual Fresh Air Damper
0270L01165	25% Motorized Fresh Air Damper
0270L01338	Concentric Duct Adapter Kit 18"
0270L01753	Downflow Low-Leak Economizer Enthalpy
0270L01755	Downflow Ultra Low-Leak Economizer Enthalpy
0270L01757	Horizontal Ultra Low-Leak Economizer Enthalpy
EHXD-1S (05, 10, 15, 20)	Electric Heat Kits
0270L01250	Hurricane Restraint Clips (for 0221L00014 Roof Clips)
0270L01261	Hurricane Restraint Clips

**SINGLE-POINT KIT ACCESSORY KITS**

Select the single-point kit accessory based on the unit model.

MODEL	SINGLE-POINT KIT
APHM52441**	SPK-30
APHM53041**	SPK-35
APHM53641**	SPK-35
APHM54241**	SPK-50
APHM54841**	SPK-50
APHM56041**	SPKT01/02

NOTES

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