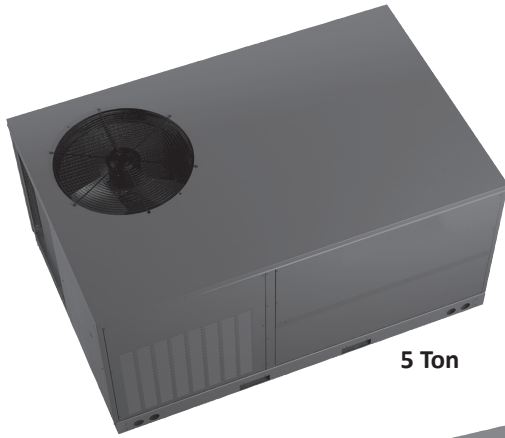
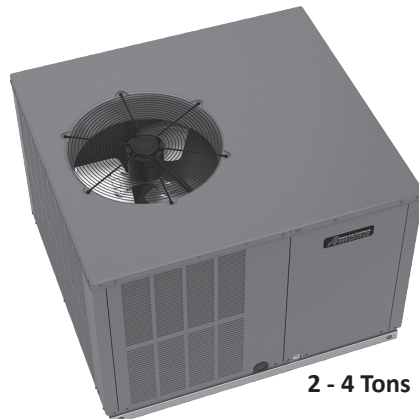


**HIGH-EFFICIENCY
 PACKAGED HEAT PUMP
 15.2 SEER2 / 6.7 HSPF2
 2 TO 5 TONS**



5 Ton



2 - 4 Tons

Contents

Nomenclature..... 2
 Product Specifications..... 3
 Expanded Cooling Data..... 4
 Expanded Heating Data..... 28
 Airflow Data..... 30
 Heat Kit Electrical Data..... 32
 Dimensions..... 34
 Wiring Diagrams..... 38
 Accessories..... 40

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

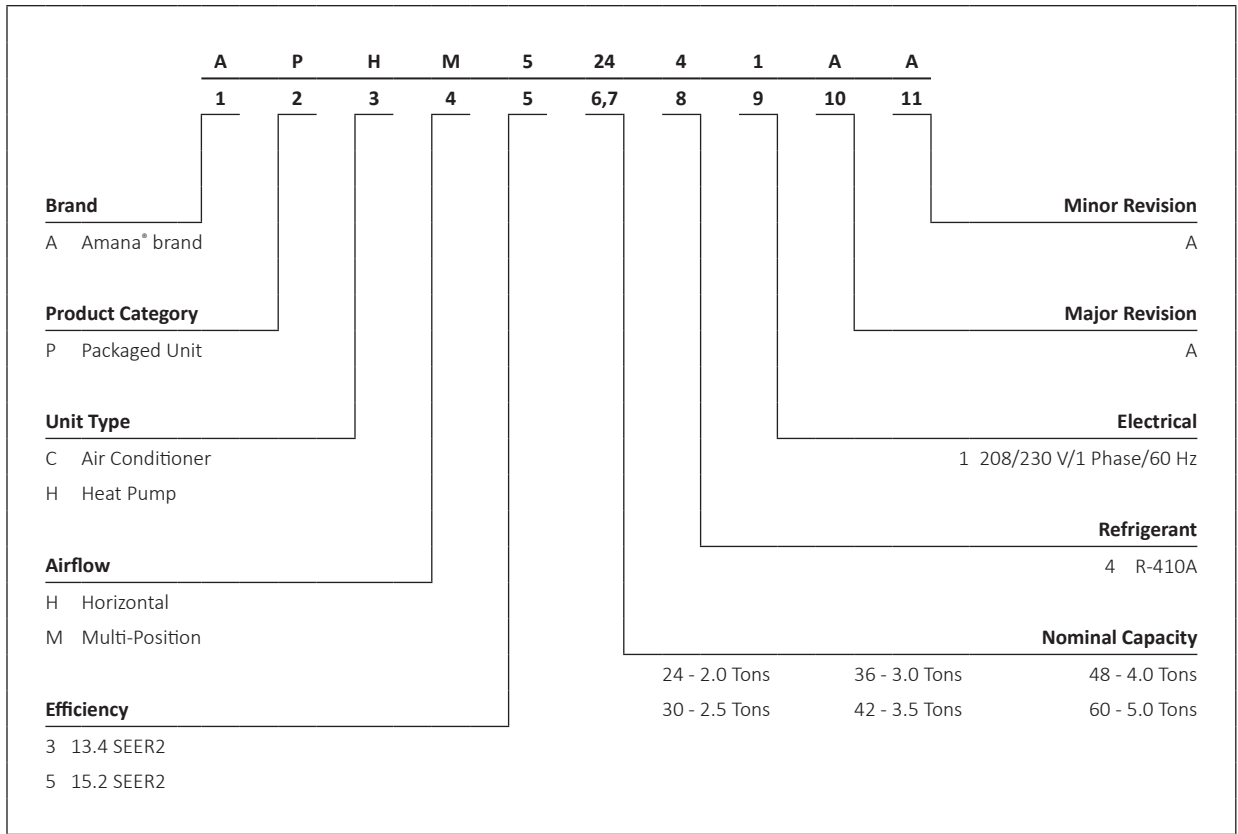
- Heavy-gauge galvanized-steel cabinet with attractive two-tone Architectural Gray powder-paint finish
- Aluminum foil-facing internal insulation reinforced with fiberglass scrim
- Fully insulated air-handling compartment with convenient access panels
- Louvered condenser coil protection
- Meets cabinet 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. 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 Québec. The duration of warranty coverages in Texas and Florida differs in some cases.



	APHM52441** + OTHPPKG	APHM5 3041**	APHM5 3641**	APHM5 4241**	APHM5 4841**	APHM5 6041**
COOLING CAPACITY						
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
HEATING CAPACITY						
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
EVAPORATOR MOTOR						
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
EVAPORATOR COIL						
Face Area (ft ²)	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
CONDENSER FAN						
Horsepower - RPM	¼ - 830	¼ - 830	¼ - 1,075	¼ - 1,075	¼ - 1,075	½ - 1,090
Fan Diameter	22	22	22	22	22	22
# Fan Blades	3	3	3	3	3	3
CONDENSER COIL						
Face Area (ft ²)	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
COMPRESSOR						
Quantity	1	1	1	1	1	1
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Stage	Two	Two	Two	Two	Two	Two
SOUND POWER						
dBA	76	76	76	78	78	78
ELECTRICAL DATA						
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 ¹	19.2	22	23.3	33.1	34.7	39
Max. Overcurrent Protection ²	30	35	35	50	50	60
SHIPPING WEIGHT (LBS)	376	385	492	492	492	688

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.

³ 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. OTHPPKG Kit is required for APHM52441 unit to achieve the published HSPF2 value.

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
70	MBh	24.3	24.6	25.4	-	24.1	24.4	25.2	-	23.4	23.8	24.5	-	22.3	22.7	23.4	-	21.0	21.4	22.1	-	19.8	20.1	20.9	-
	S/T	0.58	0.50	0.37	-	0.59	0.51	0.37	-	1.00	0.53	0.40	-	1.00	0.55	0.42	-	1.00	0.58	0.44	-	1.00	1.00	0.49	-
	ΔT	13.80	12.56	10.24	-	13.77	12.52	10.20	-	13.94	12.70	10.38	-	13.76	12.51	10.19	-	13.59	12.35	10.03	-	14.37	13.12	10.80	-
	kW	1.51	1.50	1.50	-	1.69	1.69	1.68	-	1.89	1.89	1.89	-	2.11	2.11	2.11	-	2.36	2.36	2.35	-	2.65	2.65	2.64	-
	Amps	5.68	5.67	5.66	-	6.47	6.46	6.45	-	7.35	7.35	7.33	-	8.31	8.30	8.29	-	9.38	9.37	9.36	-	10.64	10.63	10.62	-
	Hi/PR	242	243	245	-	280	281	283	-	321	322	323	-	364	365	367	-	410	411	413	-	460	461	463	-
	Lo/PR	129	130	134	-	137	138	142	-	144	145	148	-	149	151	154	-	155	157	160	-	162	164	167	-
	MBh	24.7	25.1	25.8	-	24.5	24.9	25.6	-	23.9	24.2	25.0	-	22.8	23.1	23.9	-	21.4	21.8	22.5	-	20.2	20.6	21.3	-
	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	12.69	11.45	9.13	-	12.66	11.41	9.09	-	12.83	11.59	9.27	-	12.64	11.40	9.08	-	12.48	11.24	8.91	-	13.26	12.01	9.69	-
kW	1.52	1.52	1.52	-	1.70	1.70	1.70	-	1.91	1.90	1.90	-	2.13	2.13	2.12	-	2.37	2.37	2.37	-	2.66	2.66	2.66	-	
Amps	5.74	5.73	5.72	-	6.53	6.52	6.51	-	7.41	7.41	7.39	-	8.37	8.37	8.35	-	9.44	9.44	9.42	-	10.70	10.69	10.68	-	
Hi/PR	245	246	248	-	283	284	286	-	324	325	326	-	367	368	370	-	413	414	416	-	463	464	466	-	
Lo/PR	131	133	136	-	139	141	144	-	146	148	151	-	152	154	157	-	158	159	163	-	165	167	170	-	
MBh	24.9	25.3	26.0	-	24.7	25.0	25.8	-	24.1	24.4	25.1	-	23.0	23.3	24.0	-	21.6	22.0	22.7	-	20.4	20.7	21.5	-	
S/T	0.69	0.62	0.48	-	0.70	0.62	0.49	-	1.00	0.65	0.51	-	1.00	0.67	0.53	-	1.00	0.69	0.55	-	1.00	1.00	0.61	-	
ΔT	12.38	11.14	8.82	-	12.35	11.10	8.78	-	12.52	11.28	8.96	-	12.34	11.09	8.77	-	12.17	10.93	8.60	-	12.95	11.70	9.38	-	
kW	1.52	1.52	1.52	-	1.71	1.71	1.70	-	1.91	1.91	1.91	-	2.13	2.13	2.13	-	2.38	2.38	2.37	-	2.67	2.66	2.66	-	
Amps	5.75	5.75	5.73	-	6.55	6.54	6.53	-	7.43	7.42	7.41	-	8.39	8.38	8.37	-	9.46	9.45	9.44	-	10.71	10.71	10.69	-	
Hi/PR	246	247	249	-	284	285	287	-	324	326	327	-	368	369	370	-	414	415	417	-	464	465	467	-	
Lo/PR	132	134	137	-	140	142	145	-	147	149	152	-	153	155	158	-	159	160	164	-	166	167	171	-	
75	MBh	24.3	24.7	25.4	26.5	24.1	24.4	25.2	26.3	23.5	23.8	24.5	25.6	22.4	22.7	23.4	24.6	21.0	21.4	22.1	23.2	19.8	20.1	20.9	22.0
	S/T	0.71	0.63	0.50	0.4	1.00	0.64	0.50	0.4	1.00	0.67	0.53	0.4	1.00	0.69	0.55	0.4	1.00	1.00	0.57	0.4	1.00	1.00	0.62	0.5
	ΔT	16.54	15.29	12.97	10.6	16.50	15.26	12.94	10.5	16.68	15.43	13.11	10.7	16.49	15.25	12.92	10.5	16.32	15.08	12.76	10.4	17.10	15.86	13.54	11.1
	kW	1.51	1.50	1.50	1.5	1.69	1.69	1.68	1.7	1.89	1.89	1.89	1.9	2.11	2.11	2.11	2.1	2.36	2.36	2.35	2.4	2.65	2.64	2.64	2.7
	Amps	5.67	5.66	5.65	5.7	6.46	6.46	6.44	6.5	7.35	7.34	7.33	7.4	8.31	8.30	8.29	8.3	9.38	9.37	9.36	9.4	10.63	10.63	10.61	10.7
	Hi/PR	242	243	245	249.3	281	282	283	287.6	321	322	324	327.8	364	365	367	371.0	411	412	413	417.7	460	461	463	467.4
	Lo/PR	129	130	134	139.2	137	138	142	147.1	144	145	148	154.0	149	151	154	159.8	155	157	160	165.6	162	164	167	172.7
	MBh	24.8	25.1	25.8	26.9	24.5	24.9	25.6	26.7	23.9	24.2	25.0	26.1	22.8	23.1	23.9	25.0	21.5	21.8	22.5	23.6	20.2	20.6	21.3	22.4
	S/T	0.81	0.73	0.59	0.4	1.00	0.74	0.60	0.5	1.00	0.76	0.62	0.5	1.00	0.78	0.64	0.5	1.00	1.00	0.67	0.5	1.00	1.00	0.72	0.6
	ΔT	15.42	14.18	11.86	9.5	15.39	14.15	11.83	9.4	15.56	14.32	12.00	9.6	15.38	14.13	11.81	9.4	15.21	13.97	11.65	9.2	15.99	14.75	12.43	10.0
kW	1.52	1.52	1.51	1.5	1.70	1.70	1.70	1.7	1.91	1.90	1.90	1.9	2.13	2.12	2.12	2.1	2.37	2.37	2.37	2.4	2.66	2.66	2.66	2.7	
Amps	5.73	5.72	5.71	5.8	6.52	6.52	6.50	6.6	7.41	7.40	7.39	7.4	8.37	8.36	8.35	8.4	9.44	9.43	9.42	9.5	10.69	10.69	10.67	10.7	
Hi/PR	245	246	248	252.2	284	285	286	290.6	324	325	327	330.7	367	368	370	374.0	414	415	416	420.6	463	464	466	470.4	
Lo/PR	131	133	136	141.9	139	141	144	149.7	146	148	151	156.6	152	154	157	162.5	158	159	163	168.2	165	167	170	175.4	
MBh	24.9	25.3	26.0	27.1	24.7	25.1	25.8	26.9	24.1	24.4	25.1	26.3	23.0	23.3	24.0	25.2	21.6	22.0	22.7	23.8	20.4	20.8	21.5	22.6	
S/T	0.83	0.75	0.61	0.5	1.00	0.75	0.62	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	15.12	13.87	11.55	9.1	15.08	13.84	11.52	9.1	15.26	14.01	11.69	9.3	15.07	13.83	11.50	9.1	14.90	13.66	11.34	8.9	15.68	14.44	12.12	9.7	
kW	1.52	1.52	1.52	1.5	1.71	1.70	1.70	1.7	1.91	1.91	1.90	1.9	2.13	2.13	2.12	2.1	2.38	2.37	2.37	2.4	2.66	2.66	2.66	2.7	
Amps	5.75	5.74	5.73	5.8	6.54	6.53	6.52	6.6	7.43	7.42	7.41	7.5	8.38	8.38	8.36	8.4	9.45	9.45	9.43	9.5	10.71	10.70	10.69	10.7	
Hi/PR	246	247	249	253.2	285	286	287	291.5	325	326	327	331.7	368	369	371	374.9	415	416	417	421.6	464	465	467	471.3	
Lo/PR	132	134	137	142.8	140	142	145	150.7	147	149	152	157.6	153	155	158	163.4	159	160	164	169.2	166	168	171	176.3	

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)

IDB	AIRFLOW	Outdoor Ambient Temperature												115°F																																																																												
		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																																																					
80	700	MBh	24.4	24.8	25.5	26.6	24.2	24.6	25.3	26.4	23.6	23.9	24.7	25.8	22.5	22.8	23.6	24.7	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1	21.1	21.5	22.2	23.3	19.9	20.3	21.0	22.1
		S/T	1.00	0.76	0.62	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5	1.00	0.77	0.63	0.5
		ΔT	19.29	18.04	15.72	13.3	19.25	18.01	15.69	13.3	19.43	18.18	15.86	13.5	19.24	18.00	15.68	13.3	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9	19.07	17.83	15.51	13.1	19.85	18.61	16.29	13.9
		kW	1.51	1.50	1.50	1.5	1.69	1.69	1.68	1.7	1.89	1.89	1.89	1.9	2.11	2.11	2.11	2.1	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7	2.36	2.36	2.35	2.4	2.65	2.65	2.64	2.7								
		Amps	5.67	5.67	5.65	5.7	6.47	6.46	6.45	6.5	7.35	7.35	7.33	7.4	8.31	8.30	8.29	8.4	9.38	9.37	9.36	9.4	10.64	10.63	10.62	10.7	9.38	9.37	9.36	9.4	10.64	10.63	10.62	10.7	9.38	9.37	9.36	9.4	10.64	10.63	10.62	10.7	9.38	9.37	9.36	9.4	10.64	10.63	10.62	10.7	9.38	9.37	9.36	9.4	10.64	10.63	10.62	10.7	9.38	9.37	9.36	9.4	10.64	10.63	10.62	10.7	9.38	9.37	9.36	9.4	10.64	10.63	10.62	10.7																
	HiPR	243	244	245	249.7	281	282	284	288.1	321	322	324	328.2	364	366	367	371.5	411	412	414	418.1	461	462	464	467.9	364	366	367	371.5	411	412	414	418.1	461	462	464	467.9	364	366	367	371.5	411	412	414	418.1	461	462	464	467.9	364	366	367	371.5	411	412	414	418.1	461	462	464	467.9	364	366	367	371.5	411	412	414	418.1	461	462	464	467.9	364	366	367	371.5	411	412	414	418.1	461	462	464	467.9					
	LoPR	129	131	134	139.8	137	139	142	147.7	144	146	149	154.6	150	152	155	160.4	156	157	161	166.1	163	164	168	173.3	144	146	149	154.6	150	152	155	160.4	156	157	161	166.1	163	164	168	173.3	144	146	149	154.6	150	152	155	160.4	156	157	161	166.1	163	164	168	173.3	144	146	149	154.6	150	152	155	160.4	156	157	161	166.1	163	164	168	173.3	144	146	149	154.6	150	152	155	160.4	156	157	161	166.1	163	164	168	173.3	
	850	MBh	24.9	25.2	26.0	27.1	24.7	25.0	25.7	26.8	24.0	24.4	25.1	26.2	22.9	23.3	24.0	25.1	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5	21.6	21.9	22.7	23.8	20.4	20.7	21.4	22.5								
		S/T	1.00	0.86	0.74	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6	1.00	0.86	0.73	0.6																								
		ΔT	18.18	16.93	14.61	12.2	18.14	16.90	14.58	12.2	18.32	17.07	14.75	12.3	18.13	16.89	14.57	12.2	17.96	16.72	14.40	12.0	18.74	17.50	15.18	12.8	17.96	16.72	14.40	12.0	18.74	17.50	15.18	12.8	17.96	16.72	14.40	12.0	18.74	17.50	15.18	12.8	17.96	16.72	14.40	12.0	18.74	17.50	15.18	12.8	17.96	16.72	14.40	12.0	18.74	17.50	15.18	12.8																																
kW		1.52	1.52	1.52	1.5	1.70	1.70	1.70	1.7	1.91	1.91	1.90	1.9	2.13	2.12	2.12	2.1	2.37	2.37	2.37	2.4	2.66	2.66	2.66	2.7	2.37	2.37	2.37	2.4	2.66	2.66	2.66	2.7	2.37	2.37	2.37	2.4	2.66	2.66	2.66	2.7	2.37	2.37	2.37	2.4	2.66	2.66	2.66	2.7																																									
Amps		5.74	5.73	5.72	5.8	6.53	6.52	6.51	6.6	7.41	7.41	7.39	7.5	8.37	8.36	8.35	8.4	9.44	9.43	9.42	9.5	10.70	10.69	10.68	10.7	8.37	8.36	8.35	8.4	9.44	9.43	9.42	9.5	10.70	10.69	10.68	10.7	8.37	8.36	8.35	8.4	9.44	9.43	9.42	9.5	10.70	10.69	10.68	10.7																																									
HiPR	246	247	248	252.7	284	285	287	291.0	324	325	327	331.2	367	368	370	374.4	414	415	417	421.1	464	465	467	470.8	324	325	327	331.2	367	368	370	374.4	414	415	417	421.1	464	465	467	470.8	324	325	327	331.2	367	368	370	374.4	414	415	417	421.1	464	465	467	470.8																																		
LoPR	132	134	137	142.4	140	142	145	150.3	147	148	152	157.2	153	154	158	163.1	158	160	163	168.8	166	167	170	176.0	147	148	152	157.2	153	154	158	163.1	158	160	163	168.8	166	167	170	176.0	147	148	152	157.2	153	154	158	163.1	158	160	163	168.8	166	167	170	176.0																																		
900	MBh	25.1	25.4	26.1	27.2	24.8	25.2	25.9	27.0	24.2	24.5	25.3	26.4	23.1	23.4	24.2	25.3	21.8	22.1	22.8	23.9	20.5	20.9	21.6	22.7	21.8	22.1	22.8	23.9	20.5	20.9	21.6	22.7	21.8	22.1	22.8	23.9	20.5	20.9	21.6	22.7	21.8	22.1	22.8	23.9	20.5	20.9	21.6	22.7	21.8	22.1	22.8	23.9	20.5	20.9	21.6	22.7																																	
	S/T	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6																																									
	ΔT	17.87	16.62	14.30	11.9	17.83	16.59	14.27	11.9	18.01	16.76	14.44	12.0	17.82	16.58	14.26	11.9	17.65	16.41	14.09	11.7	18.43	17.19	14.87	12.5	17.65	16.41	14.09	11.7	18.43	17.19	14.87	12.5	17.65	16.41	14.09	11.7	18.43	17.19	14.87	12.5																																																	
	kW	1.52	1.52	1.52	1.5	1.71	1.70	1.70	1.7	1.91	1.91	1.91	1.9	2.13	2.13	2.13	2.1	2.38	2.37	2.37	2.4	2.67	2.66	2.66	2.7	2.38	2.37	2.37	2.4	2.67	2.66	2.66	2.7	2.38	2.37	2.37	2.4	2.67	2.66	2.66	2.7																																																	
	Amps	5.75	5.75	5.73	5.8	6.54	6.54	6.52	6.6	7.43	7.42	7.41	7.5	8.39	8.38	8.37	8.4	9.46	9.45	9.44	9.5	10.71	10.71	10.69	10.8	8.37	8.37	8.37	8.4	9.46	9.45	9.44	9.5	10.71	10.71	10.69	10.8																																																					
HiPR	247	248	249	253.6	285	286	288	292.0	325	326	328	332.1	368	369	371	375.4	415	416	418	422.0	465	466	468	471.8	325	326	328	332.1	368	369	371	375.4	415	416	418	422.0	465	466	468	471.8																																																		
LoPR	133	135	138	143.4	141	142	146	151.3	148	149	153	158.2	154	155	159	164.0	159	161	164	169.7	166	168	171	176.9	148	149																																																																

IDB		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	59	63	67	71	59	63	67	71				
70	494	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	-											
		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	-											
		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	-											
		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	-											
		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	-											
	Hi PR	231	232	234	-	268	269	271	-	306	307	309	-	348	349	350	-	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	-												
	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	-												
	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	-												
	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	0.96	0.96	0.95	-	1.07	1.07	1.07	-	1.20	1.20	1.20	-	1.34	1.34	1.33	-	1.49	1.49	1.49	-	1.67	1.67	1.67	-													
Amps	3.61	3.60	3.60	-	4.11	4.10	4.09	-	4.66	4.66	4.65	-	5.27	5.26	5.25	-	5.94	5.94	5.93	-	6.73	6.72	6.72	-													
Hi PR	234	235	237	-	271	272	274	-	309	310	312	-	351	352	353	-	395	396	398	-	443	444	445	-													
Lo PR	135	137	140	-	143	145	148	-	150	152	155	-	156	158	161	-	162	164	167	-	170	171	175	-													
MBh	17.9	18.2	18.7	-	17.8	18.0	18.5	-	17.3	17.5	18.1	-	16.5	16.8	17.3	-	15.5	15.8	16.3	-	14.7	14.9	15.4	-													
S/T	0.71	0.63	0.49	-	1.00	0.64	0.50	-	1.00	0.67	0.53	-	1.00	0.69	0.55	-	1.00	1.00	0.57	-	1.00	1.00	0.62	-													
ΔT	11.95	10.75	8.51	-	11.92	10.72	8.48	-	12.08	10.88	8.64	-	11.90	10.70	8.46	-	11.74	10.54	8.30	-	12.49	11.29	9.05	-													
KW	0.96	0.96	0.96	-	1.07	1.07	1.07	-	1.20	1.20	1.20	-	1.34	1.34	1.34	-	1.49	1.49	1.49	-	1.68	1.68	1.67	-													
Amps	3.62	3.61	3.61	-	4.12	4.11	4.10	-	4.67	4.67	4.66	-	5.28	5.27	5.26	-	5.95	5.95	5.94	-	6.74	6.74	6.73	-													
Hi PR	235	236	238	-	272	273	274	-	310	311	313	-	352	353	354	-	396	397	399	-	444	445	446	-													
Lo PR	136	138	141	-	144	146	149	-	151	153	156	-	157	159	162	-	163	165	168	-	171	172	176	-													

75	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
		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	1.00	0.56	0.4	1.00	1.00	0.59	0.4	1.00	1.00	0.64	0.5
		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
		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
		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
	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	
	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	
	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	
	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	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	
KW	0.96	0.95	0.95	1.0	1.07	1.07	1.07	1.1	1.20	1.20	1.20	1.2	1.34	1.34	1.33	1.3	1.49	1.49	1.49	1.5	1.67	1.67	1.67	1.7		
Amps	3.60	3.60	3.59	3.6	4.10	4.10	4.09	4.1	4.66	4.66	4.65	4.7	5.26	5.26	5.25	5.3	5.94	5.93	5.92	6.0	6.73	6.72	6.71	6.8		
Hi PR	234	235	237	241.1	271	272	274	277.8	310	311	312	316.2	351	352	353	357.5	395	396	398	402.1	443	444	446	449.7		
Lo PR	135	137	140	145.8	143	145	148	153.9	150	152	155	161.0	156	161	167.0	156	162	164	167	172.9	170	171	175	180.3		
MBh	17.9	18.2	18.7	19.5	17.8	18.0	18.5	19.3	17.3	17.6	18.1	18.9	16.5	16.8	17.3	18.1	15.6	15.8	16.3	17.1	14.7	14.9	15.4	16.2		
S/T	1.00	0.77	0.63	0.5	1.00	0.78	0.63	0.5	1.00	0.80	0.66	0.5	1.00	1.00	0.68	0.5	1.00	1.00	0.70	0.6	1.00	1.00	0.74	0.6		
ΔT	14.59	13.39	11.15	8.8	14.55	13.35	11.11	8.8	14.72	13.52	11.28	9.0	14.54	13.34	11.10	8.8	14.38	13.18	10.94	8.6	15.13	13.93	11.69	9.4		
KW	0.96	0.96	0.96	1.0	1.07	1.07	1.07	1.1	1.20	1.20	1.20	1.2	1.34	1.34	1.34	1.3	1.49	1.49	1.49	1.5	1.68	1.67	1.67	1.7		
Amps	3.62	3.61	3.60	3.6	4.11	4.11	4.10	4.1	4.67	4.67	4.66	4.7	5.27	5.27	5.26	5.3	5.95	5.94	5.93	6.0	6.74	6.73	6.72	6.8		
Hi PR	235	236	238	242.0	272	273	275	278.7	310	311	313	317.1	352	353	354	358.4	396	397	399	403.0	444	445	447	450.6		
Lo PR	136	138	141	146.8	144	146	149	154.9	151	153	156	162.0	157	159	162	168.0	163	165	168	173.9	171	172	176	181.3		

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)

IDB	AIRFLOW	Outdoor Ambient Temperature												115°F																				
		65°F						75°F						85°F						95°F						105°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			
80	494	MBh	17.6	17.8	18.3	19.1	17.4	17.7	18.2	19.0	17.0	17.2	17.7	18.5	16.2	16.4	16.9	17.7	15.2	15.5	16.0	16.8	14.3	14.6	15.1	15.9	14.3	14.6	15.1	15.9	14.3	14.6	15.1	15.9
		S/T	1.00	0.78	0.64	0.5	1.00	0.79	0.65	0.5	1.00	1.00	0.67	0.5	1.00	1.00	0.69	0.5	1.00	1.00	0.72	0.6	1.00	1.00	0.72	0.6	1.00	1.00	0.72	0.6	1.00	1.00	0.72	0.6
		ΔT	18.61	17.41	15.17	12.9	18.58	17.38	15.14	12.8	18.75	17.55	15.31	13.0	18.57	17.37	15.13	12.8	18.41	17.21	14.97	12.6	19.16	17.96	15.72	13.4	19.16	17.96	15.72	13.4	19.16	17.96	15.72	13.4
		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	1.67	1.66	1.66	1.7	1.67	1.66	1.66	1.7	1.67	1.66	1.66	1.7
		Amps	3.57	3.57	3.56	3.6	4.07	4.06	4.06	4.1	4.62	4.62	4.61	4.7	5.23	5.22	5.21	5.3	5.90	5.90	5.89	5.9	6.69	6.69	6.68	6.7	6.69	6.69	6.68	6.7	6.69	6.69	6.68	6.7
	Hi PR	232	233	235	238.7	269	270	271	275.4	307	308	310	313.8	348	349	351	355.1	393	394	396	399.7	441	442	443	447.3	441	442	443	447.3	441	442	443	447.3	
	Lo PR	133	135	138	143.7	141	143	146	151.8	148	150	153	158.9	154	156	159	164.9	160	162	165	170.8	167	169	172	178.1	167	169	172	178.1	167	169	172	178.1	
	MBh	17.9	18.1	18.7	19.5	17.7	18.0	18.5	19.3	17.3	17.5	18.0	18.8	16.5	16.7	17.3	18.1	15.5	15.8	16.3	17.1	14.6	14.9	15.4	16.2	14.6	14.9	15.4	16.2	14.6	14.9	15.4	16.2	
	S/T	1.00	0.88	0.74	0.6	1.00	1.00	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	0.81	0.7	1.00	1.00	0.81	0.7	1.00	1.00	0.81	0.7	
	ΔT	17.54	16.34	14.10	11.8	17.51	16.31	14.07	11.7	17.68	16.48	14.24	11.9	17.49	16.30	14.06	11.7	17.33	16.13	13.90	11.6	18.09	16.89	14.65	12.3	18.09	16.89	14.65	12.3	18.09	16.89	14.65	12.3	
85	494	KW	0.96	0.96	0.95	1.0	1.07	1.07	1.07	1.1	1.20	1.20	1.20	1.2	1.34	1.34	1.34	1.3	1.49	1.49	1.49	1.5	1.67	1.67	1.67	1.7	1.67	1.67	1.67	1.7	1.67	1.67	1.67	1.7
		Amps	3.61	3.60	3.59	3.6	4.11	4.10	4.09	4.1	4.66	4.66	4.65	4.7	5.27	5.26	5.25	5.3	5.94	5.93	5.93	6.0	6.73	6.72	6.72	6.8	6.73	6.72	6.72	6.8	6.73	6.72	6.72	6.8
		Hi PR	235	236	238	241.6	272	273	274	278.2	310	311	313	316.6	351	352	354	358.0	396	397	398	402.5	443	444	446	450.1	443	444	446	450.1	443	444	446	450.1
		Lo PR	136	137	141	146.4	144	145	149	154.5	151	153	156	161.6	157	159	162	167.6	163	164	168	173.5	170	172	175	180.9	170	172	175	180.9	170	172	175	180.9
		MBh	18.0	18.3	18.8	19.6	17.9	18.1	18.6	19.4	17.4	17.6	18.2	19.0	16.6	16.9	17.4	18.2	15.6	15.9	16.4	17.2	14.8	15.0	15.5	16.3	14.8	15.0	15.5	16.3	14.8	15.0	15.5	16.3
	S/T	1.00	0.90	0.76	0.6	1.00	1.00	0.76	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	0.81	0.7	1.00	1.00	0.81	0.7	1.00	1.00	0.81	0.7	1.00	1.00	0.81	0.7	
	ΔT	17.24	16.04	13.80	11.5	17.21	16.01	13.77	11.4	17.38	16.18	13.94	11.6	17.20	16.00	13.76	11.4	17.04	15.84	13.60	11.3	17.79	16.59	14.35	12.0	17.79	16.59	14.35	12.0	17.79	16.59	14.35	12.0	
	KW	0.96	0.96	0.96	1.0	1.07	1.07	1.07	1.1	1.20	1.20	1.20	1.2	1.34	1.34	1.34	1.3	1.49	1.49	1.49	1.5	1.68	1.68	1.68	1.7	1.68	1.68	1.68	1.7	1.68	1.68	1.68	1.7	
	Amps	3.62	3.61	3.61	3.6	4.12	4.11	4.10	4.1	4.67	4.67	4.66	4.7	5.28	5.27	5.26	5.3	5.95	5.94	5.94	6.0	6.74	6.73	6.73	6.8	6.74	6.73	6.73	6.8	6.74	6.73	6.73	6.8	
	Hi PR	236	237	238	242.5	272	273	275	279.1	311	312	313	317.5	352	353	355	358.9	397	398	399	403.4	444	445	447	451.0	444	445	447	451.0	444	445	447	451.0	
Lo PR	137	138	142	147.4	145	146	150	155.5	152	154	157	162.6	158	160	163	168.6	164	165	169	174.5	171	173	176	181.9	171	173	176	181.9	171	173	176	181.9		
85	494	MBh	17.9	18.1	18.6	19.4	17.7	18.0	18.5	19.3	17.3	17.5	18.0	18.8	16.5	16.7	17.2	18.0	15.5	15.7	16.3	17.1	14.6	14.9	15.4	16.2	14.6	14.9	15.4	16.2	14.6	14.9	15.4	16.2
		S/T	1.00	1.00	0.75	0.6	1.00	1.00	0.75	0.6	1.00	1.00	0.78	0.6	1.00	1.00	0.80	0.7	1.00	1.00	0.80	0.7	1.00	1.00	0.80	0.7	1.00	1.00	0.80	0.7	1.00	1.00	0.80	0.7
		ΔT	20.97	19.77	17.53	15.2	20.93	19.73	17.50	15.2	21.10	19.90	17.66	15.3	20.92	19.72	17.48	15.2	20.76	19.56	17.32	15.0	21.51	20.31	18.07	15.8	21.51	20.31	18.07	15.8	21.51	20.31	18.07	15.8
		KW	0.95	0.95	0.95	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	1.49	1.49	1.49	1.5	1.67	1.67	1.67	1.7	1.67	1.67	1.67	1.7	1.67	1.67	1.67	1.7
		Amps	3.58	3.57	3.57	3.6	4.08	4.07	4.06	4.1	4.63	4.63	4.62	4.7	5.24	5.23	5.22	5.3	5.91	5.91	5.90	5.9	6.70	6.70	6.69	6.7	6.70	6.70	6.69	6.7	6.70	6.70	6.69	6.7
	Hi PR	233	234	236	239.8	270	271	272	276.5	308	309	311	314.9	350	351	352	356.2	394	395	397	400.8	442	443	444	448.4	442	443	444	448.4	442	443	444	448.4	
	Lo PR	135	137	140	145.7	143	145	148	153.8	150	152	155	160.9	156	158	161	166.9	162	164	167	172.8	169	171	174	180.1	169	171	174	180.1	169	171	174	180.1	
	MBh	18.2	18.4	19.0	19.8	18.0	18.3	18.8	19.6	17.6	17.8	18.3	19.1	16.8	17.0	17.6	18.4	15.8	16.1	16.6	17.4	14.9	15.2	15.7	16.5	14.9	15.2	15.7	16.5	14.9	15.2	15.7	16.5	
	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	0.90	0.8	1.00	1.00	0.90	0.8	1.00	1.00	0.90	0.8	1.00	1.00	0.90	0.8	1.00	1.00	0.90	0.8	
	ΔT	19.90	18.70	16.46	14.1	19.86	18.66	16.42	14.1	20.03	18.83	16.59	14.3	19.85	18.65	16.41	14.1	19.69	18.49	16.25	13.9	20.44	19.24	17.00	14.7	20.44	19.24	17.00	14.7	20.44	19.24	17.00	14.7	
KW	0.96	0.96	0.96	1.0	1.07	1.07	1.07	1.1	1.20	1.20	1.20	1.2	1.34	1.34	1.34	1.3	1.49	1.49	1.49	1.5	1.68	1.68	1.67	1.7	1.68	1.68	1.67	1.7	1.68	1.68	1.67	1.7		
Amps	3.62	3.61	3.60	3.6	4.12	4.11	4.10	4.1	4.67	4.67	4.66	4.7	5.27	5.27	5.26	5.3	5.95	5.94	5.94	6.0	6.74	6.73	6.73	6.8	6.74	6.73	6.73	6.8	6.74	6.73	6.73	6.8		
Hi PR	236	237	239	242.7	273	274	275	279.3	311	312	314	317.7	352	353	355	359.1	397	398	399	403.6	445	446	447	451.2	445	446	447	451.2	445	446	447	451.2		
Lo PR	138	139	143	148.4	146	147	151	156.5	153	155	158	163.6	159	161	164	169.6	165	166	170	175.5	172	174	177	182.9	172	174	177	182.9	172	174	177	182.9		
MBh	18.3	18.6	19.1	19.9	18.2	18.4	18.9	19.7	17.7	17.9	18.5	19.3	16.9	17.2	17.7	18.5	15.9	16.2	16.7	17.5	15.1	15.3	15.8	16.6	15.1	15.3	15.8	16.6	15.1	15.3	15.8	16.6		
S/T	1.00	1.00	0.86	0.7	1.00	1.00	0.87	0.7	1.00	1.00	0.89	0.7	1.00	1.00	0.91	0.8	1.00	1.00	0.91	0.8	1.00	1.00	0.91	0.8	1.00	1.00	0.91	0.8	1.00	1.00	0.91	0.8		
ΔT	19.60	18.40	16.16	13.8	19.56	18.36	16.12	13.8	19.73	18.53	16.29	14.0	19.55	18.35	16.11	13.8	19.39	18.19	15.95	13.6	20.14	18.94	16.70	14.4	20.14	18.94	16.70	14.4	20.14	18.94	16.70	14.4		
KW	0.96	0.96	0.96	1.0	1.08	1.07	1.07	1.1	1.20	1.20	1.20	1.2	1.34	1.34	1.34	1.3	1.49	1.49	1.49	1.5	1.68													

EXPANDED COOLING DATA — APHM53041** (HIGH 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	59	63	67	71								
70	MBh	29.9	30.3	31.2	-	29.6	30.1	30.9	-	28.8	29.3	30.2	-	27.5	27.9	28.8	-	25.8	26.3	27.2	-	24.3	24.8	25.7	-												
	S/T	0.59	0.51	0.37	-	0.59	0.52	0.38	-	0.62	0.54	0.40	-	1.00	0.56	0.42	-	1.00	0.58	0.45	-	1.00	0.64	0.50	-												
	ΔT	17.33	15.76	12.83	-	17.29	15.72	12.79	-	17.51	15.94	13.01	-	17.27	15.70	12.77	-	17.06	15.49	12.56	-	18.04	16.47	13.54	-												
	kW	1.85	1.85	1.84	-	2.07	2.07	2.07	-	2.33	2.32	2.32	-	2.60	2.60	2.59	-	2.90	2.90	2.90	-	3.26	3.26	3.25	-												
	Amps	6.85	6.84	6.82	-	7.83	7.82	7.80	-	8.92	8.92	8.90	-	10.11	10.10	10.08	-	11.43	11.42	11.41	-	12.98	12.98	12.96	-												
	Hi PR	255	256	258	-	295	296	298	-	337	339	340	-	383	384	386	-	432	433	435	-	484	486	487	-												
	Lo PR	125	127	130	-	133	134	138	-	140	141	144	-	145	147	150	-	151	152	156	-	158	159	162	-												
	MBh	30.4	30.8	31.7	-	30.1	30.6	31.5	-	29.4	29.8	30.7	-	28.0	28.4	29.3	-	26.4	26.8	27.7	-	24.9	25.3	26.2	-												
	S/T	0.68	0.60	0.46	-	0.68	0.60	0.47	-	0.71	0.63	0.49	-	1.00	0.65	0.51	-	1.00	0.67	0.53	-	1.00	0.72	0.59	-												
	ΔT	16.02	14.45	11.52	-	15.97	14.41	11.48	-	16.19	14.63	11.70	-	15.96	14.39	11.46	-	15.75	14.18	11.25	-	16.73	15.16	12.23	-												
kW	1.86	1.86	1.86	-	2.09	2.09	2.08	-	2.34	2.34	2.34	-	2.61	2.61	2.61	-	2.92	2.92	2.91	-	3.28	3.27	3.27	-													
Amps	6.92	6.91	6.89	-	7.90	7.89	7.88	-	8.99	8.99	8.97	-	10.18	10.17	10.15	-	11.50	11.49	11.48	-	13.05	13.05	13.03	-													
Hi PR	258	259	261	-	298	299	301	-	340	342	343	-	386	387	389	-	435	436	438	-	487	488	490	-													
Lo PR	128	129	132	-	135	137	140	-	142	144	147	-	148	149	152	-	153	155	158	-	160	162	165	-													
MBh	30.7	31.1	32.0	-	30.4	30.8	31.7	-	29.6	30.0	30.9	-	28.3	28.7	29.6	-	26.6	27.0	27.9	-	25.1	25.5	26.4	-													
S/T	0.70	0.62	0.48	-	0.70	0.63	0.49	-	0.73	0.65	0.52	-	1.00	0.67	0.53	-	1.00	0.69	0.56	-	1.00	0.75	0.61	-													
ΔT	15.55	13.98	11.05	-	15.50	13.94	11.01	-	15.72	14.16	11.23	-	15.49	13.92	10.99	-	15.28	13.71	10.78	-	16.26	14.69	11.76	-													
kW	1.87	1.87	1.86	-	2.10	2.09	2.09	-	2.35	2.35	2.34	-	2.62	2.62	2.61	-	2.92	2.92	2.92	-	3.28	3.28	3.28	-													
Amps	6.94	6.94	6.92	-	7.92	7.92	7.90	-	9.02	9.01	8.99	-	10.20	10.20	10.18	-	11.53	11.52	11.50	-	13.08	13.07	13.05	-													
Hi PR	259	260	262	-	299	300	302	-	342	343	345	-	387	388	390	-	436	437	439	-	489	490	491	-													
Lo PR	129	130	134	-	136	138	141	-	143	145	148	-	149	150	154	-	154	156	159	-	161	163	166	-													

75	MBh	29.9	30.3	31.2	32.6	29.6	30.1	31.0	32.3	28.9	29.3	30.2	31.6	27.5	27.9	28.8	30.2	25.9	26.3	27.2	28.6	24.4	24.8	25.7	27.1
	S/T	0.72	0.64	0.50	0.4	0.72	0.65	0.51	0.4	1.00	0.67	0.54	0.4	1.00	0.69	0.56	0.4	1.00	0.71	0.58	0.4	1.00	1.00	0.63	0.5
	ΔT	20.78	19.21	16.28	13.2	20.74	19.17	16.24	13.2	20.96	19.39	16.46	13.4	20.72	19.15	16.22	13.2	20.51	18.94	16.01	13.0	21.49	19.92	16.99	14.0
	kW	1.85	1.84	1.84	1.9	2.07	2.07	2.07	2.1	2.32	2.32	2.32	2.3	2.60	2.59	2.59	2.6	2.92	2.92	2.90	2.9	3.26	3.26	3.25	3.3
	Amps	6.84	6.83	6.82	6.9	7.82	7.82	7.80	7.9	8.92	8.91	8.89	9.0	10.10	10.09	10.08	10.2	11.42	11.42	11.40	11.5	12.98	12.97	12.95	13.0
	Hi PR	255	256	258	262.5	295	297	298	302.8	338	339	341	345.1	383	384	386	390.6	432	433	435	439.6	485	486	488	492.0
	Lo PR	125	127	130	135.3	133	134	138	143.0	140	141	144	149.7	145	147	150	155.3	151	152	156	160.9	158	159	162	167.9
	MBh	30.4	30.8	31.7	33.1	30.2	30.6	31.5	32.8	29.4	29.8	30.7	32.1	28.0	28.4	29.3	30.7	26.4	26.8	27.7	29.1	24.9	25.3	26.2	27.6
	S/T	0.81	0.73	0.59	0.4	1.00	0.74	0.60	0.5	1.00	0.76	0.62	0.5	1.00	0.78	0.64	0.5	1.00	1.00	0.67	0.5	1.00	1.00	0.72	0.6
	ΔT	19.47	17.90	14.97	11.9	19.42	17.85	14.93	11.9	19.64	18.08	15.15	12.1	19.41	17.84	14.91	11.9	19.20	17.63	14.70	11.7	20.18	18.61	15.68	12.6
kW	1.86	1.86	1.86	1.9	2.09	2.09	2.08	2.1	2.34	2.34	2.33	2.4	2.61	2.61	2.61	2.6	2.92	2.92	2.91	2.9	3.27	3.27	3.27	3.3	
Amps	6.91	6.91	6.89	7.0	7.89	7.89	7.87	7.9	8.99	8.98	8.96	9.0	10.17	10.16	10.15	10.2	11.49	11.49	11.47	11.5	13.05	13.04	13.02	13.1	
Hi PR	258	259	261	265.4	298	299	301	305.8	341	342	344	348.0	386	387	389	393.5	435	436	438	442.6	488	489	490	494.9	
Lo PR	128	129	132	137.8	135	137	140	145.4	142	144	147	152.1	148	149	152	157.8	153	155	158	163.3	160	162	165	170.3	
MBh	30.7	31.1	32.0	33.4	30.4	30.8	31.7	33.1	29.6	30.1	31.0	32.3	28.3	28.7	29.6	31.0	26.6	27.1	28.0	29.3	25.1	25.6	26.5	27.8	
S/T	0.83	0.75	0.61	0.5	1.00	0.76	0.62	0.5	1.00	0.78	0.65	0.5	1.00	0.80	0.67	0.5	1.00	1.00	0.69	0.5	1.00	1.00	0.74	0.6	
ΔT	19.00	17.43	14.50	11.5	18.95	17.38	14.46	11.4	19.17	17.61	14.68	11.6	18.94	17.37	14.44	11.4	18.73	17.16	14.23	11.2	19.71	18.14	15.21	12.2	
kW	1.87	1.87	1.86	1.9	2.09	2.09	2.09	2.1	2.35	2.34	2.34	2.4	2.62	2.62	2.61	2.6	2.92	2.92	2.92	2.9	3.28	3.28	3.27	3.3	
Amps	6.94	6.93	6.91	7.0	7.92	7.91	7.89	8.0	9.01	9.00	8.99	9.1	10.20	10.19	10.17	10.2	11.52	11.51	11.50	11.6	13.07	13.06	13.05	13.1	
Hi PR	259	260	262	266.6	300	301	302	307.0	342	343	345	349.2	387	388	390	394.7	436	438	439	443.8	489	490	492	496.2	
Lo PR	129	130	134	138.9	136	138	141	146.5	143	145	148	153.2	149	150	154	158.9	154	156	159	164.5	161	163	166	171.4	

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 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 COOLING DATA — APHM53041** (LOW STAGE)

Table with columns: IDB, AIRFLOW, 65°F (59, 63, 67, 71), 75°F (59, 63, 67, 71), 85°F (59, 63, 67, 71), ENTERING INDOOR WET BULB TEMPERATURE (59, 63, 67, 71), 95°F (59, 63, 67, 71), 105°F (59, 63, 67, 71), 115°F (59, 63, 67, 71). Rows include data for models 604, 70, 725, and 777.

Table with columns: IDB, AIRFLOW, 65°F (59, 63, 67, 71), 75°F (59, 63, 67, 71), 85°F (59, 63, 67, 71), ENTERING INDOOR WET BULB TEMPERATURE (59, 63, 67, 71), 95°F (59, 63, 67, 71), 105°F (59, 63, 67, 71), 115°F (59, 63, 67, 71). Rows include data for models 604, 75, 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 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)

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	604	MBh	21.6	21.9	22.6	23.6	21.4	21.7	22.4	23.4	20.9	21.2	21.8	22.8	19.9	20.2	20.8	21.8	18.7	19.0	19.7	20.6	17.6	17.9	18.6	19.6	S/T	1.00	0.79	0.65	0.5	1.00	0.80	0.65	0.5	1.00	1.00	0.70	0.6	1.00	1.00	0.72	0.6	1.00	1.00	0.72	0.6	1.00	1.00	0.72	0.6	1.00	1.00	0.72	0.6	ΔT	23.40	21.89	19.06	16.1	23.36	21.85	19.02	16.1	23.57	22.06	19.23	16.3	23.35	21.83	19.01	16.1	23.14	21.63	18.80	15.9	24.09	22.58	19.75	16.8	kW	1.16	1.16	1.16	1.2	1.30	1.30	1.3	1.46	1.46	1.46	1.5	1.63	1.63	1.63	1.6	1.83	1.82	1.82	1.8	2.05	2.05	2.05	2.1	8.17	8.16	8.15	8.2	Amps	4.31	4.30	4.29	4.3	4.92	4.92	4.91	5.0	5.61	5.61	5.60	5.6	6.36	6.35	6.34	6.4	7.19	7.18	7.17	7.2	8.17	8.16	8.15	8.2	Hi PR	244	245	247	251.4	283	284	286	289.9	323	324	326	330.3	367	368	370	373.8	414	415	416	420.8	464	465	467	470.8	Lo PR	129	131	134	139.7	137	139	142	147.5	144	146	149	154.4	150	151	155	160.3	156	157	160	166.0	163	164	168	173.1		80	MBh	22.0	22.3	22.9	23.9	21.8	22.1	22.7	23.7	21.2	21.5	22.2	23.2	20.3	20.6	21.2	22.2	19.1	19.4	20.0	21.0	18.0	18.3	18.9	19.9	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	0.81	0.7	1.00	1.00	0.81	0.7	ΔT	22.14	20.62	17.80	14.9	22.10	20.58	17.75	14.8	22.31	20.79	17.97	15.0	22.08	20.57	17.74	14.8	21.88	20.36	17.54	14.6	22.83	21.31	18.48	15.6	kW	1.17	1.17	1.17	1.2	1.31	1.31	1.31	1.3	1.47	1.47	1.47	1.5	1.64	1.64	1.64	1.7	1.84	1.83	1.83	1.8	2.06	2.06	2.06	2.1	8.21	8.21	8.19	8.2	Amps	4.35	4.35	4.34	4.4	4.97	4.96	4.95	5.0	5.66	5.65	5.64	5.7	6.40	6.40	6.39	6.4	7.23	7.23	7.22	7.3	8.21	8.21	8.19	8.2	Hi PR	247	248	250	254.2	286	287	288	292.7	326	327	329	333.2	370	371	372	376.7	417	418	419	423.6	467	468	469	473.6	Lo PR	132	133	137	142.2	140	141	145	150.0	147	148	151	156.9	152	154	157	162.8	158	160	163	168.5	165	167	170	175.6		777	MBh	22.2	22.5	23.1	24.1	22.0	22.3	22.9	23.9	21.4	21.7	22.4	23.4	20.4	20.8	21.4	22.4	19.3	19.6	20.2	21.2	18.2	18.5	19.1	20.1	S/T	1.00	0.90	0.76	0.6	1.00	0.91	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	ΔT	21.68	20.17	17.34	14.4	21.64	20.13	17.30	14.4	21.85	20.34	17.51	14.6	21.63	20.11	17.29	14.4	21.42	19.91	17.08	14.2	22.37	20.86	18.03	15.1	kW	1.18	1.18	1.17	1.2	1.32	1.32	1.31	1.3	1.48	1.48	1.47	1.5	1.65	1.65	1.64	1.7	1.84	1.84	1.84	1.8	2.06	2.06	2.06	2.1	8.23	8.22	8.21	8.3	Amps	4.37	4.36	4.35	4.4	4.98	4.98	4.97	5.0	5.67	5.67	5.66	5.7	6.42	6.41	6.40	6.4	7.25	7.24	7.23	7.3	8.23	8.22	8.21	8.3	Hi PR	248	249	251	255.3	287	288	290	293.9	327	328	330	334.3	371	372	374	377.8	418	419	420	424.7	468	469	471	474.8	Lo PR	133	135	138	143.4	141	142	146	151.2	148	149	153	158.1	154	155	158	163.9	159	161	164	169.6	166	168	171	176.8
	80	MBh	22.0	22.3	22.9	23.9	21.8	22.1	22.7	23.7	21.2	21.5	22.2	23.2	20.3	20.6	21.2	22.2	19.1	19.4	20.0	21.0	18.0	18.3	18.9	19.9	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	0.81	0.7	1.00	1.00	0.81	0.7	ΔT	22.14	20.62	17.80	14.9	22.10	20.58	17.75	14.8	22.31	20.79	17.97	15.0	22.08	20.57	17.74	14.8	21.88	20.36	17.54	14.6	22.83	21.31	18.48	15.6	kW	1.17	1.17	1.17	1.2	1.31	1.31	1.31	1.3	1.47	1.47	1.47	1.5	1.64	1.64	1.64	1.7	1.84	1.83	1.83	1.8	2.06	2.06	2.06	2.1	8.21	8.21	8.19	8.2	Amps	4.35	4.35	4.34	4.4	4.97	4.96	4.95	5.0	5.66	5.65	5.64	5.7	6.40	6.40	6.39	6.4	7.23	7.23	7.22	7.3	8.21	8.21	8.19	8.2	Hi PR	247	248	250	254.2	286	287	288	292.7	326	327	329	333.2	370	371	372	376.7	417	418	419	423.6	467	468	469	473.6	Lo PR	132	133	137	142.2	140	141	145	150.0	147	148	151	156.9	152	154	157	162.8	158	160	163	168.5	165	167	170	175.6		777	MBh	22.2	22.5	23.1	24.1	22.0	22.3	22.9	23.9	21.4	21.7	22.4	23.4	20.4	20.8	21.4	22.4	19.3	19.6	20.2	21.2	18.2	18.5	19.1	20.1	S/T	1.00	0.90	0.76	0.6	1.00	0.91	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	ΔT	21.68	20.17	17.34	14.4	21.64	20.13	17.30	14.4	21.85	20.34	17.51	14.6	21.63	20.11	17.29	14.4	21.42	19.91	17.08	14.2	22.37	20.86	18.03	15.1	kW	1.18	1.18	1.17	1.2	1.32	1.32	1.31	1.3	1.48	1.48	1.47	1.5	1.65	1.65	1.64	1.7	1.84	1.84	1.84	1.8	2.06	2.06	2.06	2.1	8.23	8.22	8.21	8.3	Amps	4.37	4.36	4.35	4.4	4.98	4.98	4.97	5.0	5.67	5.67	5.66	5.7	6.42	6.41	6.40	6.4	7.25	7.24	7.23	7.3	8.23	8.22	8.21	8.3	Hi PR	248	249	251	255.3	287	288	290	293.9	327	328	330	334.3	371	372	374	377.8	418	419	420	424.7	468	469	471	474.8	Lo PR	133	135	138	143.4	141	142	146	151.2	148	149	153	158.1	154	155	158	163.9	159	161	164	169.6	166	168	171	176.8																																																																																																																																																																																								
	777	MBh	22.2	22.5	23.1	24.1	22.0	22.3	22.9	23.9	21.4	21.7	22.4	23.4	20.4	20.8	21.4	22.4	19.3	19.6	20.2	21.2	18.2	18.5	19.1	20.1	S/T	1.00	0.90	0.76	0.6	1.00	0.91	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	ΔT	21.68	20.17	17.34	14.4	21.64	20.13	17.30	14.4	21.85	20.34	17.51	14.6	21.63	20.11	17.29	14.4	21.42	19.91	17.08	14.2	22.37	20.86	18.03	15.1	kW	1.18	1.18	1.17	1.2	1.32	1.32	1.31	1.3	1.48	1.48	1.47	1.5	1.65	1.65	1.64	1.7	1.84	1.84	1.84	1.8	2.06	2.06	2.06	2.1	8.23	8.22	8.21	8.3	Amps	4.37	4.36	4.35	4.4	4.98	4.98	4.97	5.0	5.67	5.67	5.66	5.7	6.42	6.41	6.40	6.4	7.25	7.24	7.23	7.3	8.23	8.22	8.21	8.3	Hi PR	248	249	251	255.3	287	288	290	293.9	327	328	330	334.3	371	372	374	377.8	418	419	420	424.7	468	469	471	474.8	Lo PR	133	135	138	143.4	141	142	146	151.2	148	149	153	158.1	154	155	158	163.9	159	161	164	169.6	166	168	171	176.8																																																																																																																																																																																																																																																																																																																																																																																	

	604	MBh	22.0	22.3	22.9	23.9	21.8	22.1	22.7	23.7	21.2	21.5	22.2	23.2	20.3	20.6	21.2	22.2	19.1	19.4	20.0	21.0	18.0	18.3	18.9	19.9	S/T	1.00	0.89	0.75	0.6	1.00	1.00	0.76	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.84	0.7	ΔT	26.38	24.86	22.03	19.1	26.33	24.82	21.99	19.1	26.55	25.03	22.21	19.3	26.32	24.80	21.98	19.0	26.12	24.60	21.78	18.8	27.06	25.55	22.72	19.8	kW	1.17	1.16	1.16	1.2	1.31	1.31	1.30	1.3	1.47	1.46	1.46	1.5	1.64	1.64	1.63	1.6	1.83	1.83	1.82	1.8	2.05	2.05	2.05	2.1	8.18	8.17	8.16	8.2	Amps	4.32	4.31	4.30	4.4	4.94	4.93	4.92	5.0	5.62	5.62	5.61	5.7	6.37	6.36	6.35	6.4	7.20	7.20	7.19	7.2	8.18	8.17	8.16	8.2	Hi PR	245	247	248	252.5	284	285	287	291.1	324	326	327	331.5	368	369	371	375.0	415	416	418	421.9	465	466	468	472.0	Lo PR	131	133	136	141.6	139	141	144	149.5	146	148	151	156.4	152	153	157	162.2	158	159	162	167.9	165	166	170	175.1		85	MBh	22.4	22.7	23.3	24.3	22.2	22.5	23.1	24.1	21.6	21.9	22.5	23.5	20.6	20.9	21.6	22.6	19.4	19.7	20.4	21.4	18.4	18.7	19.3	20.3	S/T	1.00	0.98	0.84	0.7	1.00	1.00	0.85	0.7	1.00	1.00	0.88	0.7	1.00	1.00	0.81	0.7	1.00	1.00	0.88	0.8	1.00	1.00	0.88	0.8	ΔT	25.11	23.59	20.77	17.8	25.07	23.55	20.73	17.8	25.28	23.77	20.94	18.0	25.05	23.54	20.71	17.8	24.85	23.34	20.51	17.6	25.80	24.28	21.46	18.5	kW	1.18	1.17	1.17	1.2	1.32	1.32	1.31	1.3	1.48	1.47	1.47	1.5	1.65	1.65	1.64	1.7	1.84	1.84	1.83	1.8	2.06	2.06	2.06	2.1	8.22	8.22	8.21	8.3	Amps	4.36	4.36	4.35	4.4	4.98	4.97	4.96	5.0	5.67	5.66	5.65	5.7	6.41	6.41	6.40	6.4	7.25	7.24	7.23	7.3	8.22	8.22	8.21	8.3	Hi PR	248	249	251	255.3	287	288	290	293.9	327	328	330	334.3	371	372	374	377.8	418	419	420	424.7	468	469	471	474.8	Lo PR	134	135	139	144.1	142	143	146	152.0	148	150	153	158.9	154	156	159	164.7	160	162	165	170.4	167	169	172	177.6		777	MBh	22.5	22.8	23.5	24.5	22.3	22.6	23.3	24.3	21.8	22.1	22.7	23.7	20.8	21.1	21.8	22.7	19.6	19.9	20.6	21.6	18.5	18.8	19.5	20.5	S/T	1.00	1.00	0.87	0.7	1.00	1.00	0.87	0.7	1.00	1.00	0.90	0.8	1.00	1.00	0.81	0.8	1.00	1.00	0.88	0.8	1.00	1.00	0.88	0.8	ΔT	24.66	23.14	20.31	17.4	24.61	23.10	20.27	17.3	24.83	23.31	20.49	17.6	24.60	23.08	20.26	17.3	24.40	22.88	20.06	17.1	25.34	23.83	21.00	18.1	kW	1.18	1.18	1.18	1.2	1.32	1.32	1.32	1.3	1.48	1.48	1.48	1.5	1.65	1.65	1.65	1.7	1.84	1.84	1.84	1.8	2.07	2.07	2.06	2.1	8.24	8.23	8.22	8.3	Amps	4.38	4.37	4.36	4.4	5.00	4.99	4.98	5.0	5.68	5.68	5.67	5.7	6.43	6.42	6.41	6.5	7.26	7.26	7.25	7.3	8.24	8.23	8.22	8.3	Hi PR	249	251	252	256.5	288	289	291	295.0	328	329	331	335.5	372	373	375	379.0	419	420	422	425.9	469	470	472	475.9	Lo PR	135	136	140	145.3	143	144	148	153.2	150	151	155	160.0	155	157	160	165.9	161	163	166	171.6	168	170	173	178.7
	85	MBh	22.4	22.7	23.3	24.3	22.2	22.5	23.1	24.1	21.6	21.9	22.5	23.5	20.6	20.9	21.6	22.6	19.4	19.7	20.4	21.4	18.4	18.7	19.3	20.3	S/T	1.00	0.98	0.84	0.7	1.00	1.00	0.85	0.7	1.00	1.00	0.88	0.7	1.00	1.00	0.81	0.7	1.00	1.00	0.88	0.8	1.00	1.00	0.88	0.8	ΔT	25.11	23.59	20.77	17.8	25.07	23.55	20.73	17.8	25.28	23.77	20.94	18.0	25.05	23.54	20.71	17.8	24.85	23.34	20.51	17.6	25.80	24.28	21.46	18.5	kW	1.18	1.17	1.17	1.2	1.32	1.32	1.31	1.3	1.48	1.47	1.47	1.5	1.65	1.65	1.64	1.7	1.84	1.84	1.83	1.8	2.06	2.06	2.06	2.1	8.22	8.22	8.21	8.3	Amps	4.36	4.36	4.35	4.4	4.98	4.97	4.96	5.0	5.67	5.66	5.65	5.7	6.41	6.41	6.40	6.4	7.25	7.24	7.23	7.3	8.22	8.22	8.21	8.3	Hi PR	248	249	251	255.3	287	288	290	293.9	327	328	330	334.3	371	372	374	377.8	418	419	420	424.7	468	469	471	474.8	Lo PR	134	135	139	144.1	142	143	146	152.0	148	150	153	158.9	154	156	159	164.7	160	162	165	170.4	167	169	172	177.6		777	MBh	22.5	22.8	23.5	24.5	22.3	22.6	23.3	24.3	21.8	22.1	22.7	23.7	20.8	21.1	21.8	22.7	19.6	19.9	20.6	21.6	18.5	18.8	19.5	20.5	S/T	1.00	1.00	0.87	0.7	1.00	1.00	0.87	0.7	1.00	1.00	0.90	0.8	1.00	1.00	0.81	0.8	1.00	1.00	0.88	0.8	1.00	1.00	0.88	0.8	ΔT	24.66	23.14	20.31	17.4	24.61	23.10	20.27	17.3	24.83	23.31	20.49	17.6	24.60	23.08	20.26	17.3	24.40	22.88	20.06	17.1	25.34	23.83	21.00	18.1	kW	1.18	1.18	1.18	1.2	1.32	1.32	1.32	1.3	1.48	1.48	1.48	1.5	1.65	1.65	1.65	1.7	1.84	1.84	1.84	1.8	2.07	2.07	2.06	2.1	8.24	8.23	8.22	8.3	Amps	4.38	4.37	4.36	4.4	5.00	4.99	4.98	5.0	5.68	5.68	5.67	5.7	6.43	6.42	6.41	6.5	7.26	7.26	7.25	7.3	8.24	8.23	8.22	8.3	Hi PR	249	251	252	256.5	288	289	291	295.0	328	329	331	335.5	372	373	375	379.0	419	420	422	425.9	469	470	472	475.9	Lo PR	135	136	140	145.3	143	144	148	153.2	150	151	155	160.0	155	157	160	165.9	161	163	166	171.6	168	170	173	178.7																																																																																																																																																																																									
	777	MBh	22.5	22.8	23.5	24.5	22.3	22.6	23.3	24.3	21.8	22.1	22.7	23.7	20.8	21.1	21.8	22.7	19.6	19.9	20.6	21.6	18.5	18.8	19.5	20.5	S/T	1.00	1.00	0.87	0.7	1.00	1.00	0.87	0.7	1.00	1.00	0.90	0.8	1.00	1.00	0.81	0.8	1.00	1.00	0.88	0.8	1.00	1.00	0.88	0.8	ΔT	24.66	23.14	20.31	17.4	24.61	23.10	20.27	17.3	24.83	23.31	20.49	17.6	24.60	23.08	20.26	17.3	24.40	22.88	20.06	17.1	25.34	23.83	21.00	18.1	kW	1.18	1.18	1.18	1.2	1.32	1.32	1.32	1.3	1.48	1.48	1.48	1.5	1.65	1.65	1.65	1.7	1.84	1.84	1.84	1.8	2.07	2.07	2.06	2.1	8.24	8.23	8.22	8.3	Amps	4.38	4.37	4.36	4.4	5.00	4.99	4.98	5.0	5.68	5.68	5.67	5.7	6.43	6.42	6.41	6.5	7.26	7.26	7.25	7.3	8.24	8.23	8.22	8.3	Hi PR	249	251	252	256.5	288	289	291	295.0	328	329	331	335.5	372	373	375	379.0	419	420	422	425.9	469	470	472	475.9	Lo PR	135	136	140	145.3	143	144	148	153.2	150	151	155	160.0	155	157	160	165.9	161	163	166	171.6	168	170	173	178.7																																																																																																																																																																																																																																																																																																																																																																														

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 AHR1 conditions.
 kW = Total system power
 Amps = outdoor unit amps (comp.+fan)

			OUTDOOR AMBIENT TEMPERATURE																							
			65°F				75°F				85°F				95°F				105°F				115°F			
IDB	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				
70	722	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	-
	825	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	-
		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	-
928	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	-	
	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	-	

IDB	AIRFLOW		OUTDOOR AMBIENT TEMPERATURE																							
			65°F				75°F				85°F				95°F				105°F				115°F			
IDB	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				
75	722	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
	825	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	151	158.2	153	155	158	164.1	159	161	164	170.0	167	168	172	177.3
		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
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	2.36	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	
	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	

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 COOLING DATA — APHM54241** (LOW STAGE)

	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	
70	IDB AIRFLOW																								
	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	-

	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	
75	IDB AIRFLOW																								
	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	0.45	1.00	0.76	0.62	0.48	1.00	0.77	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	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	0.77	0.64	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	162	162	157	158	162	167	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	0.79	0.65	0.54	1.00	0.77	0.64	0.51	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	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 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)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												115°F																	
		65°F						75°F						85°F						95°F						105°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
80	MBh	30.4	30.8	31.7	33.1	30.1	30.5	31.4	32.8	29.3	29.7	30.6	32.0	28.0	28.4	29.3	30.7	26.3	26.7	27.6	29.0	24.8	25.2	26.1	27.5						
	S/T	1.00	0.83	0.69	0.55	1.00	0.84	0.70	0.56	1.00	1.00	0.73	0.58	1.00	1.00	0.75	0.60	1.00	1.00	0.77	0.62	1.00	1.00	0.68							
	ΔT	16.50	15.39	13.32	11.18	16.47	15.36	13.29	11.15	16.63	15.52	13.45	11.30	16.46	15.35	13.28	11.14	16.31	15.20	13.13	10.99	17.01	15.90	13.83	11.68						
	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	2.28	2.29	2.55	2.55	2.55	2.56	2.87	2.87	2.87	2.88						
	Amps	6.06	6.05	6.04	6.10	6.93	6.93	6.91	6.98	7.91	7.90	7.89	7.96	8.97	8.96	8.95	9.01	10.15	10.14	10.13	10.19	11.53	11.53	11.51	11.58						
	Hi PR	250	251	253	257	289	290	292	296	330	331	333	337	374	375	377	382	422	423	425	429	473	474	476	480						
	Lo PR	130	132	135	141	138	140	143	149	145	147	150	155	151	152	156	161	157	158	161	167	164	165	169	174						
	MBh	30.6	31.0	31.9	33.2	30.3	30.7	31.6	33.0	29.5	29.9	30.8	32.2	28.2	28.6	29.5	30.8	26.5	26.9	27.8	29.2	25.0	25.4	26.3	27.7						
	S/T	1.00	0.86	0.72	0.57	1.00	0.86	0.73	0.58	1.00	1.00	0.75	0.61	1.00	1.00	0.77	0.63	1.00	1.00	0.79	0.65	1.00	1.00	0.70							
ΔT	16.21	15.10	13.03	10.89	16.18	15.07	13.00	10.86	16.33	15.23	13.16	11.01	16.17	15.06	12.99	10.84	16.02	14.91	12.84	10.70	16.71	15.60	13.54	11.39							
kW	1.62	1.61	1.61	1.63	1.82	1.82	1.81	1.83	2.04	2.04	2.04	2.05	2.29	2.28	2.28	2.30	2.56	2.56	2.55	2.57	2.88	2.87	2.87	2.89							
Amps	6.08	6.07	6.06	6.12	6.95	6.95	6.93	7.00	7.93	7.92	7.91	7.98	8.99	8.98	8.97	9.03	10.17	10.16	10.15	10.21	11.55	11.55	11.53	11.60							
Hi PR	251	252	254	258	290	291	293	297	331	332	334	338	375	376	378	382	423	424	426	430	474	475	477	481							
Lo PR	131	133	136	142	139	141	144	149	146	148	151	156	152	153	157	162	157	159	162	168	165	166	169	175							
MBh	31.4	31.8	32.7	34.1	31.1	31.6	32.5	33.8	30.4	30.8	31.7	33.1	29.0	29.4	30.3	31.7	27.4	27.8	28.7	30.1	25.9	26.3	27.2	28.6							
S/T	1.00	0.90	0.76	0.62	1.00	0.91	0.77	0.62	1.00	1.00	0.80	0.65	1.00	1.00	0.82	0.67	1.00	1.00	0.84	0.69	1.00	1.00	0.74								
ΔT	15.29	14.19	12.12	9.97	15.26	14.16	12.09	9.94	15.42	14.31	12.24	10.10	15.25	14.14	12.07	9.93	15.10	14.00	11.93	9.78	15.80	14.69	12.62	10.48							
kW	1.63	1.63	1.63	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	6.12	6.19	7.02	7.01	6.99	7.06	7.99	7.99	7.97	8.04	9.05	9.04	9.03	9.09	10.23	10.22	10.21	10.28	11.62	11.61	11.59	11.66							
Hi PR	254	256	257	262	294	295	296	301	335	336	337	342	379	380	382	386	426	428	429	434	477	478	480	484							
Lo PR	135	137	140	145	143	144	148	153	150	151	155	160	155	157	160	166	161	163	166	172	168	170	173	179							

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												115°F																	
		65°F						75°F						85°F						95°F						105°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
85	MBh	30.9	31.3	32.2	33.6	30.6	31.0	31.9	33.3	29.8	30.2	31.1	32.5	28.5	28.9	29.8	31.2	26.8	27.3	28.1	29.5	25.3	25.7	26.6	28.0						
	S/T	1.00	0.93	0.80	0.65	1.00	1.00	0.80	0.66	1.00	1.00	0.83	0.68	1.00	1.00	0.85	0.70	1.00	1.00	0.73	1.00	1.00	0.73	0.78							
	ΔT	18.68	17.57	15.50	13.36	18.65	17.54	15.47	13.33	18.80	17.70	15.63	13.48	18.64	17.53	15.46	13.31	18.49	17.38	15.31	13.17	19.18	18.07	16.00	13.86						
	kW	1.62	1.61	1.61	1.63	1.82	1.82	1.81	1.83	2.04	2.04	2.04	2.05	2.28	2.28	2.28	2.30	2.56	2.55	2.55	2.57	2.87	2.87	2.87	2.89						
	Amps	6.08	6.07	6.05	6.12	6.95	6.94	6.93	7.00	7.93	7.92	7.91	7.97	8.98	8.98	8.96	9.03	10.17	10.16	10.14	10.21	11.55	11.54	11.53	11.60						
	Hi PR	251	252	254	258	290	291	293	297	331	332	334	339	376	377	378	383	423	424	426	430	474	475	477	481						
	Lo PR	132	134	137	143	140	142	145	150	147	149	152	157	153	154	158	163	158	160	163	169	166	167	170	176						
	MBh	31.1	31.5	32.4	33.8	30.8	31.2	32.1	33.5	30.0	30.4	31.3	32.7	28.7	29.1	30.0	31.4	27.0	27.4	28.3	29.7	25.5	25.9	26.8	28.2						
	S/T	1.00	0.96	0.82	0.68	1.00	1.00	0.83	0.68	1.00	1.00	0.85	0.71	1.00	1.00	1.00	0.73	1.00	1.00	0.75	1.00	1.00	0.75	0.80							
ΔT	18.39	17.28	15.21	13.06	18.36	17.25	15.18	13.03	18.51	17.40	15.33	13.19	18.34	17.24	15.17	13.02	18.20	17.09	15.02	12.87	18.89	17.78	15.71	13.57							
kW	1.62	1.62	1.62	1.63	1.82	1.82	1.82	1.83	2.05	2.04	2.04	2.06	2.29	2.29	2.28	2.30	2.56	2.56	2.56	2.57	2.88	2.88	2.87	2.89							
Amps	6.10	6.09	6.07	6.14	6.97	6.96	6.95	7.02	7.95	7.94	7.93	7.99	9.00	9.00	8.98	9.05	10.19	10.18	10.16	10.23	11.57	11.56	11.55	11.62							
Hi PR	252	253	255	259	291	292	294	298	332	333	335	339	377	378	379	384	424	425	427	431	475	476	478	482							
Lo PR	133	135	138	144	141	143	146	151	148	149	153	158	154	155	159	164	159	161	164	170	167	168	171	177							
MBh	31.9	32.3	33.2	34.6	31.7	32.1	33.0	34.3	30.9	31.3	32.2	33.6	29.5	29.9	30.8	32.2	27.9	28.3	29.2	30.6	26.4	26.8	27.7	29.1							
S/T	1.00	1.00	0.87	0.72	1.00	1.00	0.87	0.73	1.00	1.00	0.90	0.75	1.00	1.00	1.00	0.77	1.00	1.00	0.80	1.00	1.00	0.80	1.00								
ΔT	17.47	16.36	14.29	12.15	17.44	16.33	14.26	12.12	17.60	16.49	14.42	12.27	17.43	16.32	14.25	12.11	17.28	16.17	14.10	11.96	17.98	16.87	14.80	12.65							
kW	1.63	1.63	1.63	1.64	1.84	1.83	1.83	1.85	2.06	2.06	2.06	2.07	2.30	2.30	2.30	2.31	2.58	2.57	2.57	2.59	2.89	2.89	2.89	2.90							
Amps	6.16	6.15	6.14	6.20	7.03	7.03	7.01	7.08	8.01	8.00	7.99	8.05	9.07	9.06	9.04	9.11	10.25	10.24	10.22	10.29	11.63	11.63	11.61	11.68							
Hi PR	256	257	258	263	295	296	298	302	336	337	339	343	380	381	383	387	428	429	430	435	478	480	481	486							
Lo PR	137	138	142	147	145	146	150	155	152	153	156	162	157	159	162	168	163	165	168	173	170	172	175	181							

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)

		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	59	63	67	71	59	63	67	71																
80	1400	MBh	47.6	48.2	49.7	51.8	47.2	47.8	49.2	51.4	45.9	46.6	48.0	50.2	43.8	44.5	45.9	48.0	41.2	41.9	43.3	45.4	38.8	39.5	40.9	43.1	1.00	0.81	0.67	0.52	1.00	0.84	0.70	0.55	1.00	1.00	0.72	0.57	1.00	1.00	0.74	0.59							
		S/T	18.93	17.68	15.36	12.96	18.89	17.65	15.33	12.92	19.07	17.82	15.50	13.10	18.88	17.64	15.32	12.91	18.71	17.47	15.15	12.75	19.49	18.25	15.93	13.52	5.23	5.23	5.23	5.25	20.55	20.54	20.51	20.63															
		ΔT	2.97	2.97	2.96	2.99	3.34	3.33	3.33	3.35	3.74	3.74	3.73	3.76	4.17	4.17	4.17	4.19	4.66	4.66	4.66	4.65	4.68	5.23	5.23	5.23	5.25	20.55	20.54	20.51	20.63	5.15	5.16	5.18	5.23														
	1600	Amps	10.73	10.71	10.69	10.81	12.30	12.28	12.26	12.38	14.05	14.04	14.01	14.13	15.95	15.93	15.91	16.03	18.07	18.05	18.03	18.15	20.55	20.54	20.51	20.63	5.15	5.16	5.18	5.23	5.15	5.16	5.18	5.23															
		Hi PR	275	273	275	279	314	315	317	322	359	360	362	367	407	408	410	415	459	460	462	467	515	516	518	523	157	158	161	167	157	158	161	167															
		Lo PR	125	126	129	135	132	134	137	142	139	140	144	149	144	146	149	154	150	151	155	160	157	158	161	167	157	158	161	167	157	158	161	167															
	1800	MBh	48.2	48.9	50.3	52.4	47.8	48.4	49.9	52.0	46.5	47.2	48.6	50.8	44.4	45.1	46.5	48.7	41.8	42.5	43.9	46.1	39.4	40.1	41.5	43.7	1.00	0.87	0.73	0.58	1.00	0.90	0.76	0.61	1.00	1.00	0.80	0.66	1.00	1.00	0.80	0.66							
		S/T	18.18	16.93	14.61	12.21	18.14	16.90	14.58	12.17	18.32	17.07	14.75	12.35	18.13	16.89	14.57	12.16	17.96	16.72	14.40	11.99	18.74	17.50	15.18	12.77	5.25	5.25	5.24	5.27	20.63	20.62	20.60	20.72															
		ΔT	2.99	2.99	2.98	3.01	3.35	3.35	3.34	3.37	3.76	3.75	3.75	3.78	4.19	4.19	4.19	4.21	4.68	4.68	4.68	4.67	4.70	5.25	5.25	5.24	5.27	20.63	20.62	20.60	20.72	5.15	5.18	5.20	5.25														
1800	Amps	10.81	10.79	10.77	10.89	12.38	12.37	12.34	12.46	14.13	14.12	14.09	14.21	16.03	16.02	15.99	16.11	18.15	18.14	18.11	18.23	20.63	20.62	20.60	20.72	5.15	5.16	5.18	5.23	5.15	5.18	5.20	5.25																
	Hi PR	274	275	277	282	317	318	320	324	361	363	364	369	410	411	413	417	462	463	465	469	517	518	520	525	157	159	160	163	157	159	160	163																
	Lo PR	126	128	131	136	134	136	139	144	141	142	145	151	146	148	151	156	152	153	156	162	159	160	163	169	157	159	160	163	157	159	160	163																

85	1400	MBh	48.4	49.0	50.5	52.6	48.0	48.6	50.0	52.2	46.7	47.4	48.8	51.0	44.6	45.3	46.7	48.8	42.0	42.7	44.1	46.2	39.6	40.3	41.7	43.9	1.00	0.91	0.77	0.62	1.00	1.00	0.82	0.68	1.00	1.00	0.85	0.70	1.00	1.00	0.85	0.70
		S/T	21.37	20.12	17.80	15.40	21.33	20.09	17.77	15.36	21.51	20.27	17.94	15.54	21.32	20.08	17.76	15.35	21.15	19.91	17.59	15.19	21.93	20.69	18.37	15.96	5.24	5.24	5.23	5.26	20.58	20.57	20.54	20.66								
		ΔT	2.98	2.98	2.97	3.00	3.34	3.34	3.33	3.36	3.75	3.74	3.74	3.76	4.18	4.18	4.17	4.20	4.67	4.67	4.66	4.69	5.24	5.24	5.23	5.26	20.58	20.57	20.54	20.66	5.16	5.17	5.19	5.24								
	1600	Amps	10.76	10.74	10.72	10.84	12.33	12.31	12.29	12.41	14.08	14.07	14.04	14.16	15.98	15.96	15.94	16.06	18.10	18.08	18.06	18.18	20.58	20.57	20.54	20.66	5.16	5.17	5.19	5.24	5.16	5.17	5.19	5.24								
		Hi PR	273	274	276	281	316	317	319	323	360	362	363	368	409	410	412	416	461	462	464	468	516	517	519	524	159	160	163	169	159	160	163	169								
		Lo PR	127	128	131	137	134	136	139	144	141	142	145	151	146	148	151	156	152	153	156	162	159	160	163	169	159	160	163	169	159	160	163	169								
	1800	MBh	49.0	49.7	51.1	53.2	48.6	49.2	50.7	52.8	47.3	48.0	49.4	51.6	45.2	45.9	47.3	49.5	42.6	43.3	44.7	46.9	40.2	40.9	42.3	44.5	1.00	0.97	0.83	0.69	1.00	1.00	0.88	0.74	1.00	1.00	0.91	0.76	1.00	1.00	0.81	0.81
		S/T	20.62	19.37	17.05	14.65	20.58	19.34	17.02	14.61	20.76	19.51	17.19	14.79	20.57	19.33	17.01	14.60	20.40	19.16	16.84	14.44	21.18	19.94	17.62	15.21	5.26	5.26	5.25	5.28	20.66	20.65	20.63	20.75								
		ΔT	3.00	3.00	2.99	3.02	3.36	3.36	3.35	3.38	3.76	3.76	3.75	3.78	4.20	4.20	4.19	4.22	4.69	4.69	4.68	4.71	5.26	5.26	5.25	5.28	20.66	20.65	20.63	20.75	5.18	5.20	5.21	5.26								
1800	Amps	10.84	10.82	10.80	10.92	12.41	12.40	12.37	12.49	14.16	14.15	14.12	14.24	16.06	16.05	16.02	16.14	18.18	18.17	18.14	18.26	20.66	20.65	20.63	20.75	5.18	5.20	5.21	5.26	5.18	5.20	5.21	5.26									
	Hi PR	275	276	278	283	318	319	321	326	363	364	366	370	411	412	414	419	463	464	466	471	518	520	521	526	160	162	165	170	160	162	165	170									
	Lo PR	128	130	133	138	136	138	141	146	143	144	147	152	148	150	153	158	154	155	158	164	160	162	165	170	160	162	165	170	160	162	165	170									

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 — APHM54841** (LOW STAGE)

Table with columns for outdoor ambient temperature (65°F, 75°F, 85°F, 95°F) and indoor wet bulb temperature (59, 63, 67, 71). Rows include IDB AIRFLOW, 1006, 1150, and 1294 with various parameters like MBh, S/T, ΔT, kW, Amps, Hi PR, and Lo PR.

Table with columns for outdoor ambient temperature (95°F, 105°F, 115°F) and indoor wet bulb temperature (59, 63, 67, 71). Rows include 1006, 1150, and 1294 with various parameters like MBh, S/T, ΔT, kW, Amps, Hi PR, and Lo PR.

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)

IDB		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
1750	MBh	58.33	59.14	60.88	63.52	57.81	58.63	60.36	63.00	56.29	57.11	58.84	61.49	53.69	54.51	56.24	58.88	50.50	51.32	53.05	55.70	47.60	48.41	50.15	52.79
	S/T	0.89	0.81	0.67	0.52	1.00	0.82	0.68	0.53	1.00	0.84	0.70	0.56	1.00	0.86	0.72	0.58	1.00	1.00	0.75	0.60	1.00	1.00	0.80	0.65
	ΔT	15.27	14.27	12.40	10.46	15.24	14.24	12.37	10.43	15.39	14.38	12.51	10.57	15.23	14.23	12.36	10.42	15.10	14.10	12.22	10.28	15.73	14.73	12.85	10.91
	kW	3.69	3.69	3.68	3.72	4.12	4.12	4.11	4.14	4.60	4.60	4.59	4.62	5.12	5.11	5.11	5.14	5.69	5.69	5.68	5.72	6.37	6.37	6.36	6.39
	Amps	13.01	13.00	12.97	13.11	14.87	14.86	14.83	14.97	16.95	16.94	16.90	17.05	19.20	19.18	19.15	19.29	21.71	21.69	21.66	21.80	24.65	24.64	24.61	24.75
	Hi PR	265.09	266.24	268.10	272.70	306.81	307.96	309.81	314.42	350.51	351.66	353.52	358.13	397.57	398.72	400.58	405.19	448.31	449.46	451.32	455.93	502.46	503.61	505.47	510.07
	Lo PR	122.24	123.74	126.84	132.02	129.64	131.14	134.24	139.42	136.12	137.63	140.73	145.91	141.61	143.11	146.21	151.39	146.99	148.49	151.59	156.77	153.72	155.23	158.32	163.51
	MBh	59.09	59.91	61.64	64.28	58.57	59.39	61.12	63.77	57.05	57.87	59.60	62.25	54.45	55.27	57.00	59.65	51.26	52.08	53.82	56.46	48.36	49.18	50.91	53.56
	S/T	1.00	0.87	0.73	0.59	1.00	0.88	0.74	0.59	1.00	0.91	0.77	0.62	1.00	0.93	0.79	0.64	1.00	1.00	0.81	0.66	1.00	1.00	0.86	0.71
	ΔT	14.67	13.66	11.79	9.85	14.64	13.64	11.76	9.82	14.78	13.78	11.90	9.96	14.63	13.63	11.75	9.81	14.49	13.49	11.62	9.68	15.12	14.12	12.25	10.31
kW	3.72	3.71	3.71	3.74	4.14	4.14	4.13	4.17	4.62	4.62	4.61	4.64	5.14	5.14	5.13	5.16	5.72	5.71	5.71	5.74	6.39	6.39	6.38	6.42	
Amps	13.11	13.10	13.06	13.21	14.97	14.96	14.92	15.07	17.05	17.03	17.00	17.14	19.29	19.28	19.25	19.39	21.80	21.79	21.76	21.90	24.75	24.73	24.70	24.84	
Hi PR	267.34	268.48	270.34	274.95	309.05	310.20	312.06	316.67	352.76	353.91	355.76	360.37	399.82	400.97	402.83	407.43	450.56	451.71	453.56	458.17	504.71	505.85	507.71	512.32	
Lo PR	124.03	125.53	128.63	133.81	131.43	132.93	136.03	141.21	137.91	139.42	142.52	147.70	143.40	144.90	148.00	153.18	148.78	150.28	153.38	158.56	155.51	157.02	160.11	165.30	
MBh	60.00	60.82	62.55	65.20	59.48	60.30	62.03	64.68	57.97	58.79	60.52	63.17	55.36	56.18	57.91	60.56	52.18	53.00	54.73	57.38	49.27	50.09	51.82	54.47	
S/T	1.00	0.91	0.77	0.62	1.00	0.91	0.77	0.63	1.00	0.94	0.80	0.65	1.00	1.00	0.82	0.67	1.00	1.00	0.84	0.70	1.00	1.00	0.90	0.75	
ΔT	14.16	13.15	11.28	9.34	14.13	13.13	11.25	9.31	14.27	13.27	11.39	9.45	14.12	13.12	11.24	9.30	13.98	12.98	11.11	9.17	14.61	13.61	11.74	9.80	
kW	3.74	3.73	3.72	3.76	4.16	4.16	4.15	4.18	4.64	4.64	4.63	4.66	5.16	5.15	5.15	5.18	5.73	5.73	5.72	5.76	6.41	6.41	6.40	6.43	
Amps	13.19	13.18	13.15	13.29	15.05	15.04	15.01	15.15	17.13	17.11	17.08	17.22	19.37	19.36	19.33	19.47	21.88	21.87	21.84	21.98	24.83	24.82	24.78	24.93	
Hi PR	269.52	270.66	272.52	277.13	311.23	312.38	314.24	318.85	354.94	356.08	357.94	362.55	402.00	403.15	405.00	409.61	452.74	453.88	455.74	460.35	506.89	508.03	509.89	514.50	
Lo PR	126.01	127.51	130.61	135.79	133.41	134.92	138.01	143.20	139.90	141.40	144.50	149.68	145.38	146.88	149.98	155.16	150.76	152.26	155.36	160.54	157.49	159.00	162.10	167.28	
1750	MBh	59.30	60.12	61.85	64.50	58.78	59.60	61.33	63.98	57.27	58.09	59.82	62.47	54.66	55.48	57.22	59.86	51.48	52.30	54.03	56.68	48.57	49.39	51.12	53.77
	S/T	1.00	0.92	0.78	0.63	1.00	0.92	0.78	0.63	1.00	1.00	0.81	0.66	1.00	1.00	0.83	0.68	1.00	1.00	0.85	0.70	1.00	1.00	1.00	0.76
	ΔT	17.24	16.24	14.37	12.43	17.21	16.21	14.34	12.40	17.36	16.35	14.48	12.54	17.20	16.20	14.33	12.39	17.07	16.07	14.19	12.25	17.70	16.69	14.82	12.88
	kW	3.70	3.70	3.69	3.72	4.13	4.13	4.12	4.15	4.61	4.60	4.60	4.63	5.12	5.12	5.11	5.15	5.70	5.70	5.69	5.72	6.38	6.38	6.37	6.40
	Amps	13.05	13.04	13.00	13.15	14.91	14.90	14.86	15.01	16.99	16.97	16.94	17.08	19.23	19.22	19.19	19.33	21.74	21.73	21.70	21.84	24.69	24.67	24.64	24.78
	Hi PR	266.33	267.48	269.34	273.95	308.05	309.20	311.06	315.67	351.76	352.90	354.76	359.37	398.82	399.96	401.82	406.43	449.56	450.70	452.56	457.17	503.70	504.85	506.71	511.32
	Lo PR	124.06	125.57	128.66	133.85	131.47	132.97	136.07	141.25	137.95	139.45	142.55	147.73	143.43	144.93	148.03	153.21	148.81	150.31	153.41	158.59	155.55	157.05	160.15	165.33
	MBh	60.06	60.88	62.62	65.26	59.54	60.36	62.10	64.74	58.03	58.85	60.58	63.23	55.43	56.24	57.98	60.62	52.24	53.06	54.79	57.44	49.33	50.15	51.89	54.53
	S/T	1.00	0.98	0.84	0.69	1.00	0.98	0.84	0.70	1.00	1.00	0.87	0.72	1.00	1.00	0.89	0.74	1.00	1.00	0.91	0.77	1.00	1.00	1.00	0.82
	ΔT	16.64	15.63	13.76	11.82	16.61	15.61	13.73	11.79	16.75	15.75	13.87	11.93	16.60	15.59	13.72	11.78	16.46	15.46	13.59	11.65	17.09	16.09	14.22	12.28
kW	3.72	3.72	3.71	3.75	4.15	4.15	4.14	4.17	4.63	4.63	4.62	4.65	5.15	5.14	5.14	5.17	5.72	5.72	5.71	5.75	6.40	6.40	6.39	6.42	
Amps	13.15	13.13	13.10	13.24	15.01	14.99	14.96	15.10	17.08	17.07	17.04	17.18	19.33	19.31	19.28	19.43	21.84	21.82	21.79	21.94	24.78	24.77	24.74	24.88	
Hi PR	268.58	269.73	271.59	276.19	310.30	311.44	313.30	317.91	354.00	355.15	357.01	361.62	401.06	402.21	404.07	408.68	451.80	452.95	454.81	459.42	505.95	507.10	508.96	513.56	
Lo PR	125.85	127.36	130.45	135.64	133.26	134.76	137.86	143.04	139.74	141.24	144.34	149.52	145.22	146.72	149.82	155.00	150.60	152.10	155.20	160.38	157.34	158.84	161.94	167.12	
MBh	60.98	61.80	63.53	66.18	60.46	61.28	63.01	65.66	58.95	59.76	61.50	64.14	56.34	57.16	58.89	61.54	53.16	53.98	55.71	58.35	50.25	51.07	52.80	55.45	
S/T	1.00	1.00	0.87	0.72	1.00	1.00	0.88	0.73	1.00	1.00	0.90	0.76	1.00	1.00	0.93	0.78	1.00	1.00	0.95	0.80	1.00	1.00	1.00	0.85	
ΔT	16.13	15.12	13.25	11.31	16.10	15.09	13.22	11.28	16.24	15.24	13.36	11.42	16.09	15.08	13.21	11.27	15.95	14.95	13.08	11.14	16.58	15.58	13.71	11.77	
kW	3.74	3.74	3.73	3.77	4.17	4.17	4.16	4.19	4.65	4.65	4.64	4.67	5.17	5.16	5.15	5.19	5.74	5.74	5.73	5.76	6.42	6.42	6.41	6.44	
Amps	13.23	13.21	13.18	13.32	15.09	15.07	15.04	15.18	17.16	17.15	17.12	17.26	19.41	19.40	19.36	19.51	21.92	21.91	21.87	22.02	24.87	24.85	24.82	24.96	
Hi PR	270.76	271.91	273.77	278.37	312.48	313.62	315.48	320.09	356.18	357.33	359.19	363.80	403.24	404.39	406.25	410.86	453.98	455.13	456.99	461.60	508.13	509.28	511.13	515.74	
Lo PR	127.83	129.34	132.43	137.62	135.24	136.74	139.84	145.02	141.72	143.22	146.32	151.50	147.20	148.70	151.80	156.98	152.58	154.08	157.18	162.36	159.32	160.82	163.92	169.10	

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

EXPANDED COOLING DATA — APHM56041** (LOW STAGE)

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
70	MBh	41.70	42.28	43.53	-	41.32	41.91	43.16	-	40.23	40.82	42.07	-	38.36	38.95	40.19	-	36.07	36.66	37.91	-	33.98	34.57	35.82	-
	S/T	0.64	0.56	0.42	-	0.65	0.57	0.43	-	0.68	0.60	0.45	-	1.00	0.62	0.47	-	1.00	0.64	0.50	-	1.00	0.69	0.55	-
	ΔT	10.47	9.50	7.69	-	10.44	9.47	7.66	-	10.58	9.61	7.80	-	10.43	9.46	7.65	-	10.30	9.33	7.53	-	10.91	9.94	8.13	-
	kW	2.32	2.32	2.32	-	2.59	2.59	2.59	-	2.89	2.89	2.89	-	3.22	3.22	3.21	-	3.58	3.58	3.57	-	4.01	4.01	4.00	-
	Amps	8.19	8.18	8.16	-	9.36	9.35	9.33	-	10.66	10.65	10.63	-	12.08	12.07	12.05	-	13.66	13.65	13.63	-	15.51	15.50	15.48	-
	Hi PR	252.74	253.83	255.61	-	292.62	293.72	295.49	-	334.40	335.50	337.27	-	379.39	380.49	382.26	-	427.90	428.99	430.77	-	479.66	480.76	482.54	-
	Lo PR	125.08	126.62	129.81	-	132.69	134.23	137.42	-	139.35	140.90	144.08	-	144.99	146.53	149.72	-	150.52	152.06	155.25	-	157.44	158.99	162.17	-
	MBh	42.24	42.83	44.08	-	41.87	42.46	43.70	-	40.78	41.37	42.62	-	38.91	39.50	40.74	-	36.62	37.21	38.45	-	34.53	35.12	36.36	-
	S/T	0.71	0.63	0.48	-	0.71	0.63	0.49	-	0.74	0.66	0.52	-	1.00	0.68	0.54	-	1.00	0.70	0.56	-	1.00	0.76	0.61	-
	ΔT	9.88	8.91	7.11	-	9.86	8.89	7.08	-	9.99	9.02	7.22	-	9.85	8.88	7.07	-	9.72	8.75	6.94	-	10.32	9.35	7.55	-
kW	2.34	2.34	2.33	-	2.61	2.61	2.60	-	2.91	2.91	2.90	-	3.23	3.23	3.23	-	3.60	3.59	3.59	-	4.02	4.02	4.01	-	
Amps	8.25	8.24	8.22	-	9.42	9.41	9.39	-	10.72	10.71	10.69	-	12.14	12.13	12.11	-	13.72	13.71	13.69	-	15.57	15.56	15.54	-	
Hi PR	254.89	255.98	257.76	-	294.77	295.86	297.64	-	336.55	337.64	339.42	-	381.54	382.63	384.41	-	430.04	431.14	432.92	-	481.81	482.91	484.68	-	
Lo PR	126.92	128.46	131.65	-	134.53	136.07	139.26	-	141.19	142.74	145.92	-	146.83	148.37	151.56	-	152.36	153.90	157.09	-	159.28	160.83	164.01	-	
MBh	42.90	43.49	44.74	-	42.53	43.12	44.36	-	41.44	42.03	43.27	-	39.57	40.15	41.40	-	37.28	37.87	39.11	-	35.19	35.78	37.02	-	
S/T	0.74	0.66	0.52	-	0.75	0.67	0.52	-	1.00	0.70	0.55	-	1.00	0.72	0.57	-	1.00	0.74	0.60	-	1.00	0.79	0.65	-	
ΔT	9.39	8.42	6.61	-	9.36	8.40	6.59	-	9.50	8.53	6.72	-	9.35	8.39	6.58	-	9.22	8.26	6.45	-	9.83	8.86	7.05	-	
kW	2.35	2.35	2.34	-	2.62	2.62	2.61	-	2.92	2.92	2.91	-	3.24	3.24	3.24	-	3.61	3.61	3.60	-	4.03	4.03	4.03	-	
Amps	8.30	8.29	8.27	-	9.47	9.46	9.44	-	10.77	10.77	10.75	-	12.19	12.18	12.16	-	13.77	13.76	13.74	-	15.62	15.61	15.59	-	
Hi PR	256.97	258.07	259.84	-	296.85	297.95	299.72	-	338.63	339.73	341.51	-	383.62	384.72	386.50	-	432.13	433.22	435.00	-	483.89	484.99	486.77	-	
Lo PR	128.96	130.50	133.69	-	136.57	138.11	141.30	-	143.23	144.78	147.96	-	148.87	150.41	153.60	-	154.40	155.94	159.13	-	161.32	162.87	166.05	-	

75	MBh	41.72	42.31	43.55	45.46	41.35	41.94	43.18	45.08	40.26	40.85	42.09	43.99	38.38	38.97	40.22	42.12	36.10	36.68	37.93	39.83	34.01	34.59	35.84	37.74
	S/T	0.78	0.70	0.56	0.40	0.79	0.71	0.56	0.41	1.00	0.73	0.59	0.44	1.00	0.75	0.61	0.46	1.00	0.78	0.63	0.48	1.00	1.00	0.69	0.54
	ΔT	12.59	11.63	9.82	7.95	12.57	11.60	9.79	7.92	12.70	11.74	9.93	8.06	12.56	11.59	9.78	7.91	12.43	11.46	9.65	7.78	13.04	12.07	10.26	8.39
	kW	2.32	2.32	2.32	2.34	2.59	2.59	2.58	2.61	2.89	2.89	2.89	2.91	3.22	3.21	3.21	3.23	3.58	3.58	3.57	3.59	4.01	4.00	4.00	4.02
	Amps	8.18	8.17	8.15	8.24	9.35	9.34	9.32	9.41	10.66	10.65	10.63	10.72	12.07	12.06	12.04	12.13	13.65	13.64	13.62	13.71	15.50	15.49	15.47	15.56
	Hi PR	252.96	254.06	255.83	260.24	292.84	293.94	295.72	300.12	334.62	335.72	337.50	341.90	379.61	380.71	382.49	386.89	428.12	429.22	430.99	435.40	479.89	480.98	482.76	487.17
	Lo PR	125.11	126.65	129.84	135.17	132.72	134.26	137.45	142.78	139.38	140.93	144.11	149.44	145.02	146.56	149.75	155.08	150.55	152.09	155.28	160.61	157.47	159.02	162.20	167.53
	MBh	42.27	42.86	44.10	46.00	41.89	42.48	43.73	45.63	40.81	41.39	42.64	44.54	38.93	39.52	40.77	42.67	36.64	37.23	38.48	40.38	34.55	35.14	36.39	38.29
	S/T	0.84	0.76	0.62	0.47	1.00	0.77	0.63	0.47	1.00	0.80	0.65	0.50	1.00	0.82	0.67	0.52	1.00	0.84	0.70	0.54	1.00	1.00	0.75	0.60
	ΔT	12.01	11.04	9.23	7.36	11.98	11.02	9.21	7.34	12.12	11.15	9.34	7.47	11.97	11.01	9.20	7.33	11.84	10.88	9.07	7.20	12.45	11.48	9.68	7.80
kW	2.34	2.33	2.33	2.35	2.61	2.60	2.60	2.62	2.91	2.90	2.90	2.92	3.23	3.23	3.22	3.24	3.59	3.59	3.59	3.61	4.02	4.02	4.01	4.03	
Amps	8.24	8.23	8.21	8.30	9.41	9.40	9.38	9.47	10.72	10.71	10.69	10.78	12.13	12.12	12.10	12.19	13.71	13.70	13.68	13.77	15.56	15.55	15.53	15.62	
Hi PR	255.11	256.20	257.98	262.39	294.99	296.09	297.86	302.27	336.77	337.87	339.65	344.05	381.76	382.86	384.64	389.04	430.27	431.36	433.14	437.55	482.03	483.13	484.91	489.31	
Lo PR	126.95	128.49	131.68	137.00	134.56	136.10	139.29	144.62	141.22	142.77	145.95	151.28	146.86	148.40	151.59	156.92	152.39	153.93	157.12	162.45	159.31	160.86	164.04	169.37	
MBh	42.93	43.51	44.76	46.66	42.55	43.14	44.39	46.29	41.46	42.05	43.30	45.20	39.59	40.18	41.42	43.33	37.30	37.89	39.14	41.04	35.21	35.80	37.05	38.95	
S/T	0.88	0.80	0.66	0.50	1.00	0.81	0.66	0.51	1.00	0.83	0.69	0.54	1.00	0.85	0.71	0.56	1.00	1.00	0.73	0.58	1.00	1.00	0.79	0.64	
ΔT	11.52	10.55	8.74	6.87	11.49	10.52	8.72	6.84	11.63	10.66	8.85	6.98	11.48	10.51	8.71	6.83	11.35	10.38	8.58	6.70	11.96	10.99	9.18	7.31	
kW	2.35	2.35	2.34	2.36	2.62	2.61	2.61	2.63	2.92	2.92	2.91	2.93	3.24	3.24	3.24	3.26	3.61	3.60	3.60	3.62	4.03	4.03	4.02	4.05	
Amps	8.29	8.28	8.26	8.35	9.46	9.45	9.43	9.52	10.77	10.76	10.74	10.83	12.18	12.17	12.15	12.24	13.76	13.75	13.73	13.82	15.61	15.60	15.58	15.67	
Hi PR	257.19	258.29	260.07	264.47	297.07	298.17	299.95	304.35	338.86	339.95	341.73	346.13	383.85	384.94	386.72	391.12	432.35	433.45	435.23	439.63	484.12	485.21	486.99	491.40	
Lo PR	128.98	130.53	133.72	139.04	136.60	138.14	141.33	146.65	143.26	144.81	147.99	153.32	148.90	150.44	153.63	158.95	154.43	155.97	159.16	164.48	161.35	162.90	166.08	171.41	

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)

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	41.94	42.52	43.77	45.67	41.56	42.15	43.40	45.30	40.47	41.06	42.31	44.21	38.60	39.19	40.44	42.34	36.31	36.90	38.15	40.05	34.22	34.81	36.06	37.96
	S/T	1.00	0.83	0.69	0.54	1.00	0.84	0.70	0.54	1.00	0.87	0.72	0.57	1.00	1.00	0.74	0.59	1.00	1.00	0.77	0.61	1.00	1.00	0.82	0.67
	ΔT	14.74	13.77	11.96	10.09	14.71	13.74	11.94	10.06	14.85	13.88	12.07	10.20	14.70	13.73	11.93	10.05	14.57	13.60	11.80	9.92	15.18	14.21	12.40	10.53
	kW	2.32	2.32	2.32	2.34	2.59	2.59	2.59	2.61	2.89	2.89	2.89	2.91	3.22	3.22	3.22	3.23	3.58	3.58	3.57	3.60	4.01	4.01	4.00	4.02
	Amps	8.19	8.18	8.16	8.25	9.36	9.35	9.33	9.42	10.66	10.65	10.63	10.72	12.08	12.07	12.05	12.14	13.65	13.64	13.62	13.71	15.51	15.50	15.48	15.57
	Hi PR	253.43	254.52	256.30	260.71	293.31	294.41	296.18	300.59	335.09	336.19	337.96	342.37	380.08	381.18	382.95	387.36	428.59	429.68	431.46	435.87	480.35	481.45	483.23	487.63
	Lo PR	125.66	127.21	130.39	135.72	133.27	134.82	138.00	143.33	139.94	141.48	144.67	149.99	145.57	147.12	150.30	155.63	151.10	152.65	155.83	161.16	158.03	159.57	162.76	168.08
	MBh	42.48	43.07	44.32	46.22	42.11	42.70	43.94	45.85	41.02	41.61	42.86	44.76	39.15	39.74	40.98	42.89	36.86	37.45	38.69	40.60	34.77	35.36	36.60	38.51
	S/T	1.00	0.90	0.75	0.60	1.00	0.90	0.76	0.61	1.00	0.93	0.79	0.63	1.00	1.00	0.81	0.65	1.00	1.00	0.83	0.68	1.00	1.00	0.88	0.73
	ΔT	14.15	13.18	11.38	9.51	14.13	13.16	11.35	9.48	14.26	13.29	11.49	9.61	14.12	13.15	11.34	9.47	13.99	13.02	11.21	9.34	14.59	13.63	11.82	9.95
kW	2.34	2.34	2.33	2.35	2.61	2.60	2.60	2.62	2.91	2.91	2.90	2.92	3.23	3.23	3.23	3.25	3.60	3.59	3.59	3.61	4.02	4.02	4.01	4.04	
Amps	8.25	8.24	8.22	8.31	9.42	9.41	9.39	9.48	10.72	10.71	10.69	10.78	12.14	12.13	12.11	12.20	13.71	13.71	13.69	13.77	15.57	15.56	15.54	15.63	
Hi PR	255.57	256.67	258.45	262.85	295.46	296.55	298.33	302.73	337.24	338.33	340.11	344.52	382.23	383.32	385.10	389.51	430.73	431.83	433.61	438.01	482.50	483.60	485.37	489.78	
Lo PR	127.50	129.05	132.23	137.56	135.11	136.66	139.84	145.17	141.78	143.32	146.51	151.83	147.41	148.96	152.14	157.47	152.94	154.49	157.67	163.00	159.87	161.41	164.60	169.92	
MBh	43.14	43.73	44.98	46.88	42.77	43.36	44.60	46.51	41.68	42.27	43.51	45.42	39.81	40.40	41.64	43.54	37.52	38.11	39.35	41.25	35.43	36.02	37.26	39.16	
S/T	1.00	0.93	0.79	0.64	1.00	0.94	0.80	0.64	1.00	1.00	0.82	0.67	1.00	1.00	0.84	0.69	1.00	1.00	0.87	0.71	1.00	1.00	0.92	0.77	
ΔT	13.66	12.69	10.89	9.01	13.63	12.67	10.86	8.99	13.77	12.80	10.99	9.12	13.62	12.66	10.85	8.98	13.49	12.53	10.72	8.85	14.10	13.13	11.33	9.45	
kW	2.35	2.35	2.34	2.36	2.62	2.62	2.61	2.63	2.92	2.92	2.91	2.93	3.24	3.24	3.24	3.26	3.61	3.60	3.60	3.62	4.03	4.03	4.03	4.05	
Amps	8.30	8.29	8.27	8.36	9.47	9.46	9.44	9.53	10.77	10.76	10.74	10.83	12.19	12.18	12.16	12.25	13.77	13.76	13.74	13.83	15.62	15.61	15.59	15.68	
Hi PR	257.66	258.75	260.53	264.94	297.54	298.64	300.41	304.82	339.32	340.42	342.19	346.60	384.31	385.41	387.18	391.59	432.82	433.91	435.69	440.10	484.58	485.68	487.46	491.86	
Lo PR	129.54	131.08	134.27	139.59	137.15	138.69	141.88	147.20	143.81	145.36	148.54	153.87	149.45	150.99	154.18	159.50	154.98	156.52	159.71	165.04	161.90	163.45	166.63	171.96	
85	MBh	42.64	43.23	44.47	46.38	42.27	42.85	44.10	46.00	41.18	41.77	43.01	44.91	39.30	39.89	41.14	43.04	37.01	37.60	38.85	40.75	34.92	35.51	36.76	38.66
	S/T	1.00	0.94	0.80	0.64	1.00	1.00	0.80	0.65	1.00	1.00	0.83	0.68	1.00	1.00	0.85	0.70	1.00	1.00	0.87	0.72	1.00	1.00	1.00	0.78
	ΔT	16.64	15.67	13.86	11.99	16.61	15.64	13.84	11.96	16.75	15.78	13.97	12.10	16.60	15.63	13.83	11.95	16.47	15.50	13.70	11.82	17.08	16.11	14.30	12.43
	kW	2.33	2.33	2.32	2.34	2.60	2.60	2.59	2.61	2.90	2.90	2.89	2.91	3.22	3.22	3.22	3.24	3.59	3.58	3.58	3.60	4.01	4.01	4.01	4.03
	Amps	8.21	8.20	8.18	8.27	9.38	9.37	9.35	9.44	10.68	10.68	10.66	10.74	12.10	12.09	12.07	12.16	13.68	13.67	13.65	13.74	15.53	15.52	15.50	15.59
	Hi PR	254.62	255.71	257.49	261.89	294.50	295.59	297.37	301.78	336.28	337.38	339.15	343.56	381.27	382.37	384.14	388.55	429.78	430.87	432.65	437.05	481.54	482.64	484.41	488.82
	Lo PR	127.54	129.08	132.27	137.59	135.15	136.69	139.88	145.20	141.81	143.36	146.54	151.87	147.45	148.99	152.18	157.50	152.98	154.52	157.71	163.03	159.90	161.45	164.63	169.96
	MBh	43.19	43.77	45.02	46.92	42.81	43.40	44.65	46.55	41.72	42.31	43.56	45.46	39.85	40.44	41.69	43.59	37.56	38.15	39.40	41.30	35.47	36.06	37.31	39.21
	S/T	1.00	1.00	0.86	0.71	1.00	1.00	0.87	0.71	1.00	1.00	0.89	0.74	1.00	1.00	0.91	0.76	1.00	1.00	1.00	0.79	1.00	1.00	1.00	0.84
	ΔT	16.05	15.09	13.28	11.41	16.03	15.06	13.25	11.38	16.16	15.19	13.39	11.52	16.02	15.05	13.24	11.37	15.89	14.92	13.11	11.24	16.49	15.53	13.72	11.85
kW	2.34	2.34	2.34	2.36	2.61	2.61	2.61	2.63	2.91	2.91	2.91	2.93	3.24	3.24	3.24	3.25	3.60	3.60	3.59	3.61	4.03	4.02	4.02	4.04	
Amps	8.27	8.26	8.24	8.33	9.44	9.43	9.41	9.50	10.75	10.74	10.72	10.81	12.16	12.15	12.13	12.22	13.74	13.73	13.71	13.80	15.59	15.58	15.56	15.65	
Hi PR	256.76	257.86	259.64	264.04	296.64	297.74	299.52	303.92	338.43	339.52	341.30	345.71	383.42	384.51	386.29	390.69	431.92	433.02	434.80	439.20	483.69	484.78	486.56	490.97	
Lo PR	129.38	130.92	134.11	139.43	136.99	138.53	141.72	147.04	143.65	145.20	148.38	153.71	149.29	150.83	154.02	159.34	154.82	156.36	159.55	164.87	161.74	163.29	166.47	171.80	
MBh	43.84	44.43	45.68	47.58	43.47	44.06	45.31	47.21	42.38	42.97	44.22	46.12	40.51	41.10	42.34	44.25	38.22	38.81	40.05	41.96	36.13	36.72	37.96	39.87	
S/T	1.00	1.00	0.90	0.74	1.00	1.00	0.90	0.75	1.00	1.00	0.93	0.78	1.00	1.00	0.95	0.80	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.88	
ΔT	15.56	14.59	12.79	10.91	15.53	14.57	12.76	10.89	15.67	14.70	12.90	11.02	15.52	14.56	12.75	10.88	15.40	14.43	12.62	10.75	16.00	15.03	13.23	11.35	
kW	2.35	2.35	2.35	2.37	2.62	2.62	2.62	2.64	2.92	2.92	2.92	2.94	3.25	3.25	3.24	3.26	3.61	3.61	3.61	3.63	4.04	4.04	4.03	4.05	
Amps	8.32	8.31	8.29	8.38	9.49	9.48	9.46	9.55	10.80	10.79	10.77	10.86	12.21	12.20	12.18	12.27	13.79	13.78	13.76	13.85	15.64	15.63	15.61	15.70	
Hi PR	258.85	259.94	261.72	266.13	298.73	299.82	301.60	306.01	340.51	341.61	343.38	347.79	385.50	386.60	388.37	392.78	434.01	435.10	436.88	441.28	485.77	486.87	488.64	493.05	
Lo PR	131.41	132.96	136.14	141.47	139.02	140.57	143.75	149.08	145.69	147.23	150.42	155.75	151.32	152.87	156.05	161.38	156.85	158.40	161.58	166.91	163.78	165.32	168.51	173.84	

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 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	32.54	30.42	28.31	26.19	24.93	23.70	20.70	18.02	15.84	14.19	12.92	12.24	11.40	9.28	7.17	5.06	2.94
KW	1.88	1.86	1.84	1.82	1.81	1.80	1.78	1.76	1.74	1.72	1.70	1.68	1.68	1.65	1.63	1.61	1.59
AMPS	6.8	6.7	6.7	6.6	6.5	6.5	6.4	6.3	6.2	6.1	6.0	6.0	5.9	5.9	5.8	5.7	5.6
COP	4.72	4.45	4.20	3.90	3.70	3.53	3.12	2.75	2.45	2.22	2.04	1.95	1.82	1.50	1.18	0.84	0.50
Hi PR	390	377	364	352	344	339	326	314	301	288	276	268	263	250	238	225	212
LO PR	141	132	123	115	109	106	97	88	80	71	62	57	53	44	36	27	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	35.24	32.83	30.53	28.03	26.53	25.05	21.49	18.35	15.81	13.87	12.35	11.53	10.53	8.03	5.53	3.03	0.54
KW	1.15	1.12	1.09	1.06	1.04	1.03	1.00	0.97	0.94	0.91	0.88	0.86	0.85	0.82	0.79	0.76	0.73
AMPS	4.1	4.0	3.8	3.7	3.6	3.6	3.4	3.3	3.2	3.0	2.9	2.8	2.8	2.6	2.5	2.4	2.2
COP	5.55	5.31	5.10	4.82	4.62	4.41	3.90	3.44	3.06	2.77	2.55	2.44	2.26	1.79	1.28	0.73	0.13
Hi PR	378	365	353	341	333	328	316	304	292	279	267	260	255	242	230	218	206
LO PR	138	130	121	113	107	104	95	87	78	70	61	56	52	44	35	26	18

APHM53041

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	37.42	34.95	32.52	30.13	28.60	27.46	24.57	21.91	19.75	18.14	16.94	16.30	15.48	13.43	11.38	9.33	7.28
T/R	32.13	30.30	28.47	26.64	25.54	24.51	21.93	19.57	17.64	16.20	15.13	14.55	13.82	11.99	10.16	8.33	6.50
KW	2.58	2.54	2.50	2.46	2.43	2.41	2.37	2.33	2.28	2.24	2.20	2.17	2.15	2.11	2.07	2.03	1.98
AMPS	9.6	9.4	9.2	9.0	8.9	8.8	8.7	8.5	8.3	8.1	7.9	7.8	7.7	7.5	7.3	7.2	7.0
COP	4.24	4.03	3.81	3.60	3.45	3.34	3.04	2.76	2.54	2.37	2.26	2.20	2.11	1.86	1.61	1.35	1.08
Hi PR	412	398	385	372	364	358	345	331	318	305	291	283	278	264	251	238	224
LO PR	133	124	116	108	103	100	91	83	75	67	58	53	50	42	34	25	17

APHM53041

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	27.40	25.53	23.83	21.87	20.63	19.65	17.23	15.06	13.30	11.97	10.95	10.41	9.72	8.02	6.32	4.61	2.91
T/R	34.91	32.69	30.46	28.24	26.91	25.62	22.47	19.64	17.35	15.61	14.28	13.57	12.68	10.46	8.24	6.01	3.79
KW	1.58	1.53	1.48	1.43	1.40	1.38	1.33	1.29	1.24	1.19	1.14	1.11	1.09	1.04	0.99	0.94	0.89
AMPS	5.7	5.5	5.3	5.1	5.0	4.9	4.7	4.5	4.3	4.0	3.8	3.7	3.6	3.4	3.2	3.0	2.8
COP	5.08	4.89	4.71	4.47	4.31	4.16	3.78	3.43	3.15	2.95	2.82	2.75	2.62	2.26	1.87	1.43	0.95
Hi PR	399	386	373	360	352	347	334	321	308	295	282	274	269	256	243	230	217
LO PR	130	122	114	106	101	98	90	82	74	65	57	53	49	41	33	25	17

APHM53641

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	43.95	41.11	38.31	35.56	33.80	32.50	29.19	26.14	23.65	21.80	20.43	19.70	18.76	16.41	14.06	11.71	9.36
T/R	32.29	30.49	28.70	26.90	25.82	24.83	22.30	19.97	18.07	16.66	15.61	15.05	14.33	12.54	10.74	8.95	7.15
KW	2.78	2.75	2.72	2.69	2.68	2.67	2.64	2.61	2.58	2.55	2.53	2.51	2.50	2.47	2.44	2.42	2.39
AMPS	10.2	10.0	9.9	9.8	9.7	9.7	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5
COP	4.64	4.38	4.13	3.87	3.70	3.57	3.24	2.93	2.68	2.50	2.37	2.30	2.20	1.95	1.69	1.42	1.15
Hi PR	373	360	348	336	329	324	312	300	288	276	263	256	251	239	227	215	203
LO PR	136	127	119	111	106	102	94	85	77	68	60	55	51	43	34	26	18

APHM53641

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	32.39	30.17	28.08	25.82	24.38	23.25	20.46	17.96	15.92	14.38	13.21	12.58	11.79	9.82	7.85	5.89	3.92
T/R	36.06	33.81	31.55	29.30	27.94	26.65	23.45	20.58	18.24	16.48	15.13	14.41	13.51	11.26	9.00	6.75	4.49
KW	1.71	1.66	1.62	1.57	1.55	1.53	1.49	1.44	1.40	1.35	1.31	1.28	1.26	1.22	1.18	1.13	1.09
AMPS	6.1	5.9	5.7	5.6	5.4	5.4	5.2	5.0	4.8	4.6	4.4	4.3	4.2	4.0	3.8	3.6	3.4
COP	5.57	5.32	5.09	4.81	4.62	4.46	4.04	3.65	3.34	3.12	2.96	2.88	2.73	2.36	1.96	1.52	1.06
Hi PR	361	349	338	326	319	314	302	291	279	267	255	248	244	232	220	208	197
LO PR	134	125	117	109	104	100	92	84	75	67	59	54	50	42	34	26	17

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

APHM54241

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	50.21	46.93	43.70	40.53	38.50	36.99	33.16	29.64	26.77	24.64	23.05	22.20	21.11	18.40	15.68	12.96	10.25
T/R	34.08	32.16	30.24	28.32	27.17	26.10	23.40	20.92	18.89	17.39	16.27	15.67	14.90	12.98	11.07	9.15	7.23
KW	3.20	3.18	3.16	3.15	3.13	3.13	3.11	3.09	3.07	3.06	3.04	3.03	3.02	3.00	2.98	2.96	2.95
AMPS	11.8	11.7	11.7	11.6	11.5	11.5	11.4	11.4	11.3	11.2	11.1	11.1	11.0	11.0	10.9	10.8	10.7
COP	4.60	4.32	4.05	3.78	3.60	3.47	3.13	2.81	2.55	2.36	2.22	2.15	2.05	1.80	1.54	1.28	1.02
Hi PR	389	376	364	351	344	338	326	313	300	288	275	268	263	250	237	225	212
LO PR	131	123	115	106	102	98	90	82	74	66	58	53	49	41	33	25	17

APHM54241

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	36.89	34.37	32.03	29.43	27.77	26.47	23.25	20.37	18.02	16.25	14.90	14.17	13.27	11.00	8.73	6.47	4.20
T/R	31.84	29.83	27.82	25.82	24.61	23.45	20.60	18.05	15.97	14.40	13.20	12.56	11.75	9.75	7.74	5.73	3.72
KW	1.97	1.93	1.88	1.84	1.81	1.79	1.75	1.70	1.66	1.62	1.57	1.55	1.53	1.48	1.44	1.40	1.35
AMPS	6.9	6.7	6.5	6.3	6.2	6.1	5.9	5.8	5.6	5.4	5.2	5.1	5.0	4.8	4.6	4.4	4.2
COP	5.49	5.23	4.99	4.69	4.50	4.33	3.90	3.50	3.18	2.95	2.78	2.69	2.54	2.17	1.78	1.36	0.91
Hi PR	377	365	353	340	333	328	316	303	291	279	267	259	254	242	230	218	205
LO PR	129	121	113	105	100	97	89	81	73	65	57	52	49	41	33	25	17

APHM54841

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	57.95	54.18	50.48	46.83	44.50	42.77	38.38	34.34	31.04	28.59	26.78	25.80	24.55	21.44	18.32	15.20	12.09
T/R	31.73	29.96	28.18	26.41	25.34	24.36	21.86	19.56	17.68	16.28	15.25	14.69	13.98	12.21	10.43	8.66	6.88
KW	3.82	3.78	3.74	3.70	3.67	3.66	3.62	3.58	3.54	3.50	3.46	3.44	3.42	3.38	3.34	3.30	3.26
AMPS	14.0	13.8	13.7	13.5	13.4	13.3	13.2	13.0	12.8	12.6	12.5	12.4	12.3	12.1	12.0	11.8	11.6
COP	4.45	4.20	3.96	3.71	3.55	3.43	3.11	2.81	2.57	2.39	2.27	2.20	2.10	1.86	1.61	1.35	1.09
Hi PR	386	373	361	348	341	335	323	310	298	285	273	265	260	248	235	223	210
LO PR	126	118	110	103	98	95	87	79	71	63	56	51	48	40	32	24	16

APHM54841

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	42.64	39.72	37.00	34.00	32.10	30.60	26.91	23.59	20.90	18.86	17.30	16.47	15.43	12.82	10.22	7.61	5.01
T/R	32.66	30.61	28.56	26.51	25.28	24.10	21.19	18.57	16.45	14.85	13.62	12.97	12.15	10.10	8.05	5.99	3.94
KW	2.34	2.28	2.22	2.16	2.12	2.10	2.04	1.98	1.91	1.85	1.79	1.76	1.73	1.67	1.61	1.55	1.49
AMPS	8.3	8.1	7.8	7.5	7.4	7.3	7.0	6.7	6.5	6.2	5.9	5.8	5.7	5.4	5.1	4.9	4.6
COP	5.33	5.10	4.88	4.62	4.43	4.28	3.87	3.50	3.20	2.98	2.83	2.75	2.61	2.25	1.86	1.44	0.99
Hi PR	374	362	349	337	330	325	313	301	289	277	264	257	252	240	228	216	204
LO PR	124	116	109	101	96	93	85	78	70	62	55	50	47	39	31	24	16

APHM56041

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	77.38	72.08	66.88	61.76	58.50	56.00	49.76	44.09	39.47	36.00	33.40	32.00	30.23	25.82	21.40	16.98	12.57
T/R	35.11	33.03	30.94	28.86	27.61	26.43	23.48	20.81	18.62	16.99	15.76	15.10	14.27	12.18	10.10	8.01	5.93
KW	5.12	4.98	4.85	4.71	4.63	4.58	4.45	4.31	4.18	4.04	3.91	3.83	3.77	3.64	3.51	3.37	3.24
AMPS	19.1	18.6	18.0	17.4	17.0	16.8	16.2	15.6	15.0	14.5	13.9	13.5	13.3	12.7	12.1	11.5	11.0
COP	4.43	4.24	4.04	3.84	3.70	3.58	3.28	3.00	2.77	2.61	2.50	2.45	2.35	2.08	1.79	1.48	1.14
Hi PR	402	389	376	363	355	350	337	324	311	297	284	277	271	258	245	232	219
LO PR	130	122	114	106	101	98	90	82	73	65	57	52	49	41	33	25	17

APHM56041

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	56.05	52.22	48.77	44.82	42.20	40.09	34.93	30.34	26.61	23.78	21.60	20.43	18.98	15.35	11.72	8.09	4.46
T/R	26.07	24.36	22.65	20.93	19.91	18.91	16.48	14.31	12.55	11.22	10.19	9.64	8.95	7.24	5.53	3.82	2.10
KW	3.11	2.99	2.87	2.75	2.68	2.63	2.51	2.39	2.27	2.15	2.03	1.96	1.91	1.79	1.67	1.55	1.43
AMPS	10.4	9.9	9.4	8.8	8.5	8.3	7.8	7.3	6.7	6.2	5.7	5.4	5.2	4.7	4.1	3.6	3.1
COP	5.28	5.12	4.98	4.78	4.62	4.47	4.08	3.72	3.44	3.25	3.12	3.06	2.92	2.52	2.06	1.53	0.92
Hi PR	390	377	364	352	344	339	326	314	301	288	276	268	263	250	238	225	212
LO PR	128	120	112	104	99	96	88	80	72	64	56	51	48	40	32	24	16

Notes

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

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

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

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" H₂O, for three-row indoor coil; and 0.3" H₂O, for four-row indoor coil.
2. Data shown does not include filter pressure drop, approx. 0.08" H₂O.
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 @ 240V	
	MCA*	MOP**	MCA*	MOP**	MCA*	MOP**	KW	BTU/HR
APHM52441AA								
HKP-05C	24.7	25	-	-	46	50	4.75	16,200
HKR-08C	36.5	40	-	-	57.8	60	7	23,900
HKP-10C	49.5	50	-	-	70.8	70	9.5	32,400
APHM53041AA								
HKP-05C	24.7	25	-	-	47.6	50	4.75	16,200
HKR-08C	36.5	40	-	-	59.4	60	7	23,900
HKP-10C	49.5	50	-	-	72.4	80	9.5	32,400
HKP-15C	49.5	50	24.7	25	103.3	110	14.25	48,600
APHM53641AA								
HKP-05C	24.7	25	-	-	47.9	50	4.75	16,200
HKR-08C	36.5	40	-	-	59.7	60	7	23,900
HKP-10C	49.5	50	-	-	72.7	80	9.5	32,400
HKP-15C	49.5	50	24.7	25	103.6	110	14.25	48,600
APHM54241AA								
HKP-05C	24.7	25	-	-	55.2	60	4.75	16,200
HKR-08C	36.5	40	-	-	67	70	7	23,900
HKP-10C	49.5	50	-	-	80	80	9.5	32,400
HKP-15C	49.5	50	24.7	25	110.9	110	14.25	48,600
HKP-20C	49.5	50	49.5	50	141.9	150	19	64,800
APHM54841AA								
HKP-05C	24.7	25	-	-	59.3	60	4.75	16,200
HKR-08C	36.5	40	-	-	71.1	80	7	23,900
HKP-10C	49.5	50	-	-	84.1	90	9.5	32,400
HKP-15C	49.5	50	24.7	25	115	125	14.25	48,600
HKP-20C	49.5	50	49.5	50	146	150	19	64,800

* - Minimum Circuit Ampacity
 ** - Maximum Overload Protection
 C Circuit breaker option

MODEL	HEATER KIT	CIRCUIT #1		SINGLE-POINT KIT		ACTUAL @ 240V	
		MCA*	MOP**	MCA*	MOP**	KW	BTU/HR
APHM56041AA	EHXD-1S05	65.1	80	5	17,000	4.75	16,200
	EHXD-1S10	91.1	100	10	34,000	7	23,800
	EHXD-1S15	117.2	125	15	51,000	9.5	32,400
	EHXD-1S22	143.2	150	20	68,200	14.25	48,600

* - Minimum Circuit Ampacity @ 208 / 240 V
 *** - Maximum Overcurrent Protection Device @ 208 / 240 V

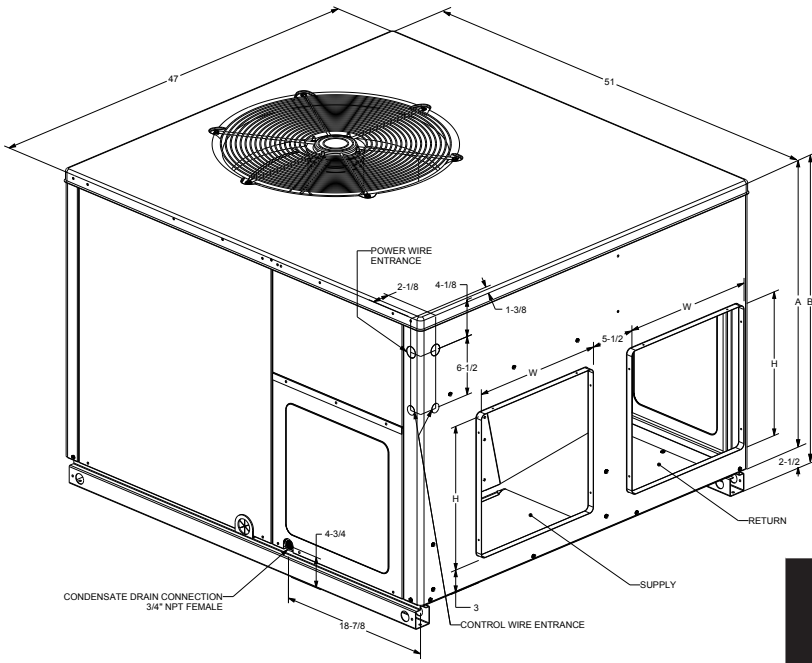
HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

MODEL AND HEAT KIT USAGE	CIRCUIT #1		CIRCUIT #2		SINGLE-POINT KIT		ACTUAL @ 240V	
	MCA*	MOP**	MCA*	MOP**	MCA*	MOP**	KW	BTU/HR
APHM52441AB								
HKTPD051	24.7	25	-	-	46	50	4.75	16,200
HKTPD081	36.5	40	-	-	57.8	60	7	23,900
HKTPD101	49.5	50	-	-	70.8	70	9.5	32,400
APHM53041AB								
HKTPD051	24.7	25	-	-	47.6	50	4.75	16,200
HKTPD081	36.5	40	-	-	59.4	60	7	23,900
HKTPD101	49.5	50	-	-	72.4	80	9.5	32,400
HKTPD151	49.5	50	24.7	25	103.3	110	14.25	48,600
APHM53641AB								
HKTPD051	24.7	25	-	-	47.9	50	4.75	16,200
HKTPD081	36.5	40	-	-	59.7	60	7	23,900
HKTPD101	49.5	50	-	-	72.7	80	9.5	32,400
HKTPD151	49.5	50	24.7	25	103.6	110	14.25	48,600
APHM54241AB								
HKTPD051	24.7	25	-	-	55.2	60	4.75	16,200
HKTPD081	36.5	40	-	-	67	70	7	23,900
HKTPD101	49.5	50	-	-	80	80	9.5	32,400
HKTPD151	49.5	50	24.7	25	110.9	110	14.25	48,600
HKTPD201	49.5	50	49.5	50	141.9	150	19	64,800
APHM54841AB								
HKTPD051	24.7	25	-	-	59.3	60	4.75	16,200
HKTPD081	36.5	40	-	-	71.1	80	7	23,900
HKTPD101	49.5	50	-	-	84.1	90	9.5	32,400
HKTPD151	49.5	50	24.7	25	115	125	14.25	48,600
HKTPD201	49.5	50	49.5	50	146	150	19	64,800

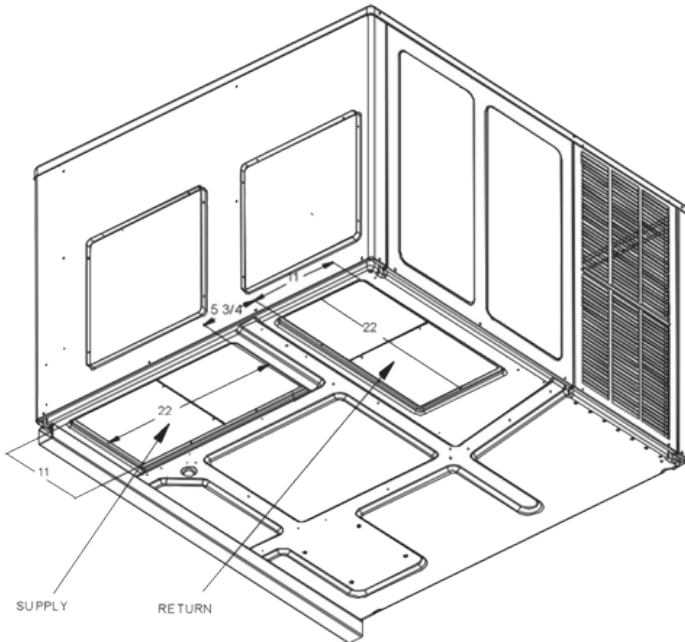
* - Minimum Circuit Ampacity
 ** - Maximum Overload Protection

MODEL	HEATER KIT	CIRCUIT #1		SINGLE-POINT KIT		ACTUAL @ 240V	
		MCA*	MOP**	MCA*	MOP**	KW	BTU/HR
APHM56041AB	EHXD-1S05A	65.1	80	5	17,000	4.75	16,200
	EHXD-1S10A	91.1	100	10	34,000	7	23,800
	EHXD-1S15A	117.2	125	15	51,000	9.5	32,400
	EHXD-1S22A	143.2	150	20	68,200	14.25	48,600

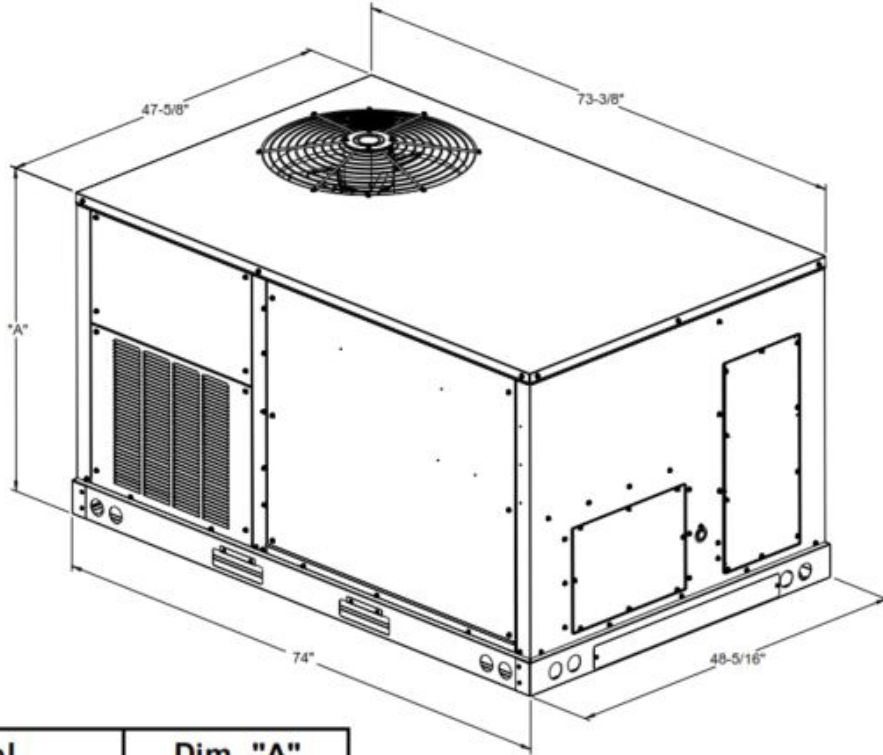
* - Minimum Circuit Ampacity @ 208 / 240 V
 *** - Maximum Overcurrent Protection Device @ 208 / 240 V



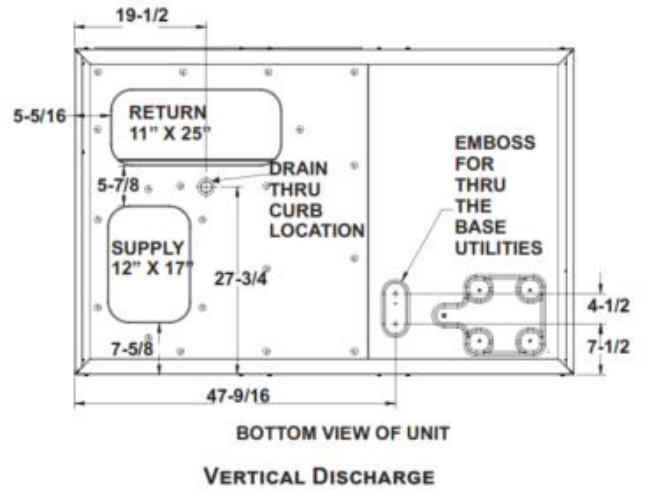
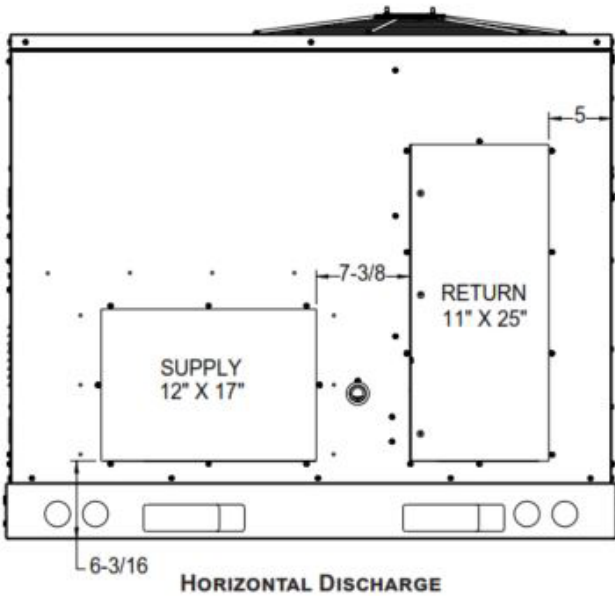
MODEL	UNIT DIMENSIONS (INCHES)				CHASSIS SIZE
			HEIGHT		
	W	D	A	B	
APHM52441**	47	51	32	34 3/4	Medium
APHM53041**	47	51	32	34 3/4	Medium
APHM53641**	47	51	40	42 3/4	Large
APHM54241**	47	51	40	42 3/4	Large
APHM54841**	47	51	40	42 3/4	Large



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



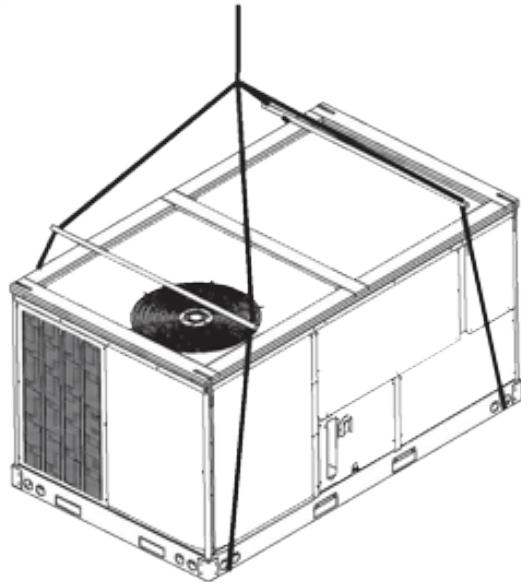
Model	Dim. "A"
5 Ton Heat Pump	43-1/2"



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.

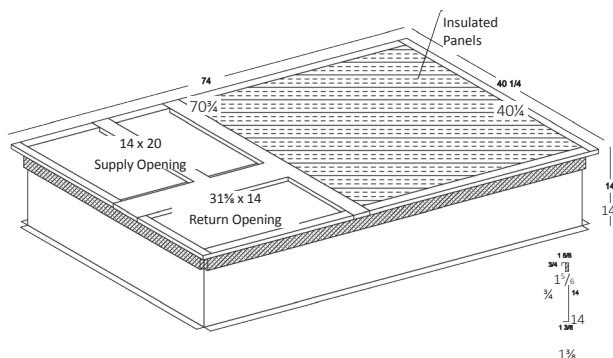
Full perimeter roof curbs are available from the factory and are shipped unassembled. The installing contractor is responsible for field assembly, squaring, leveling, and mounting on the roof structure. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory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

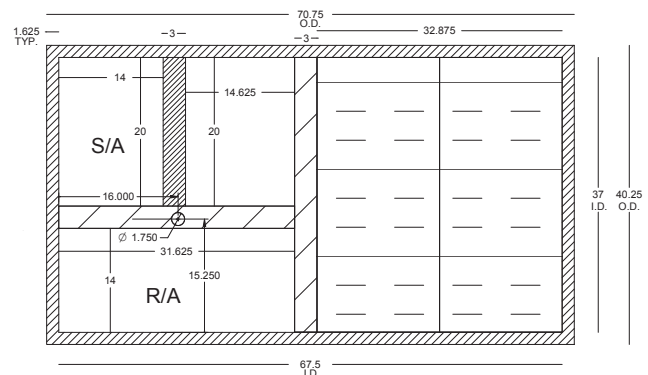
Note: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

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

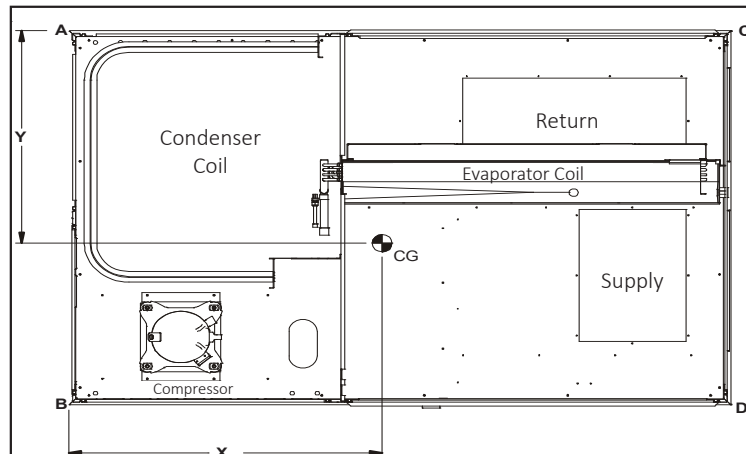
3-D VIEW



TOP VIEW



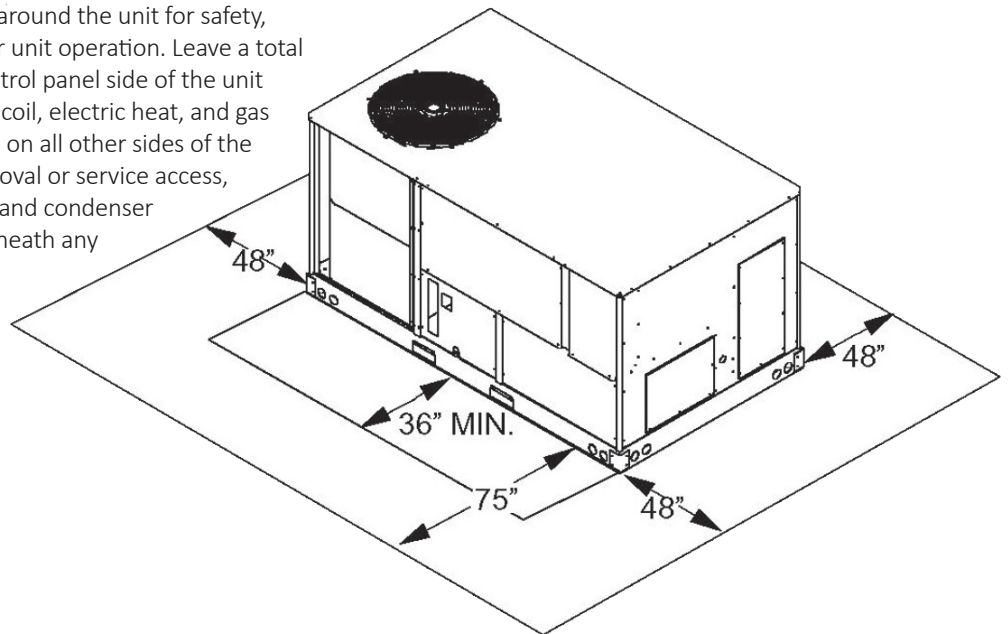
CORNER & CENTER-OF-GRAVITY LOCATIONS

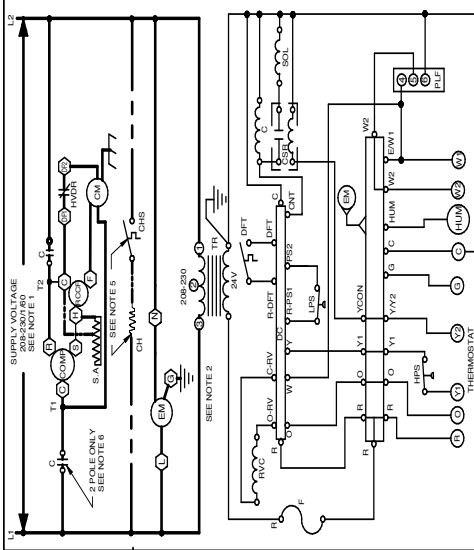
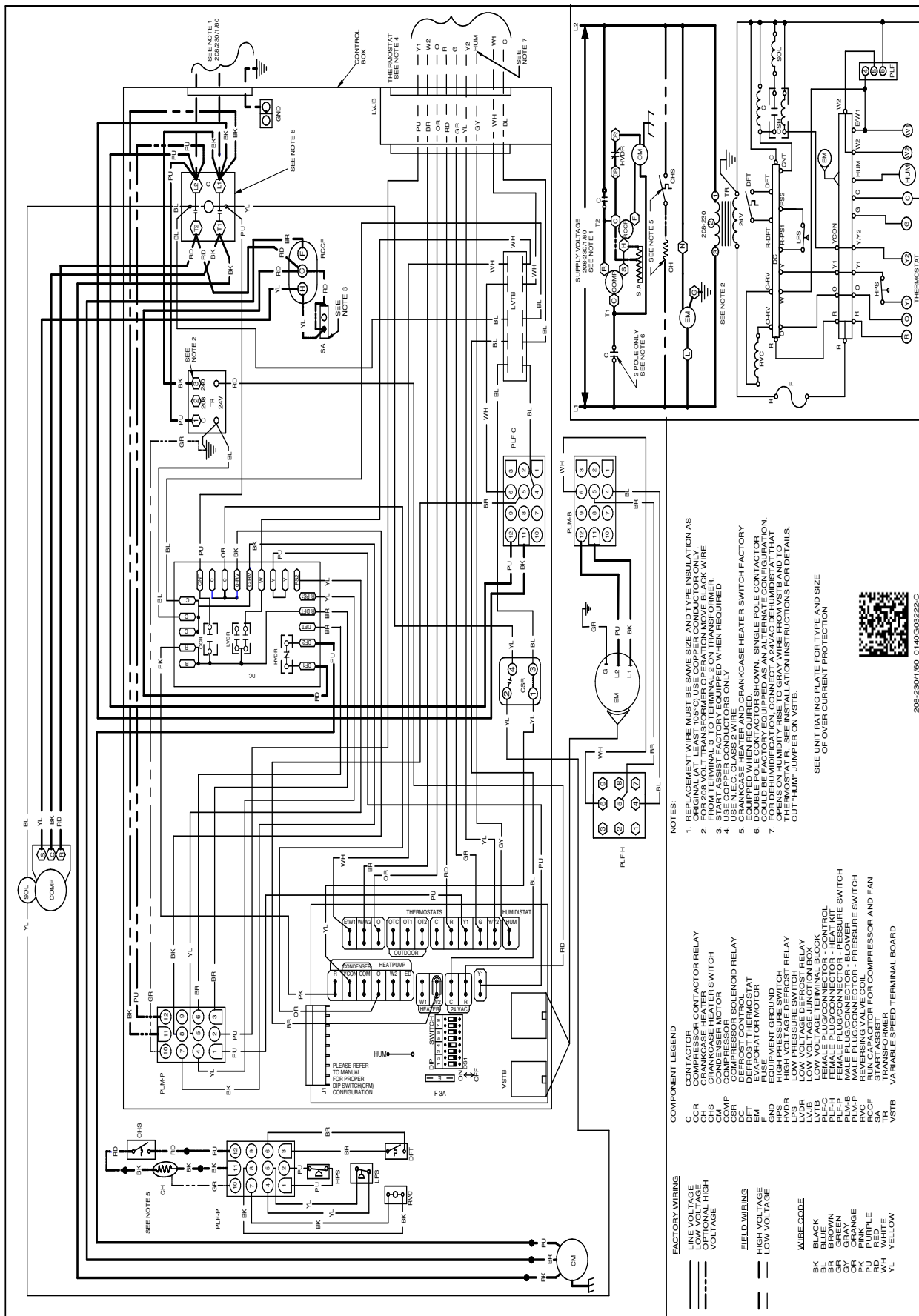


MODEL	X (IN)	Y (IN)	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	CORNER WEIGHTS (LBS.)			
					A	B	C	D
APHM56041**	33.5	27.6	688	630	150	194	165	121

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 (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
 2. FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
 3. USE COPPER ASSIST CONDUCTOR WHEN REQUIRED.
 4. USE N.E.C. CLASS 2 WIRE.
 5. EQUIPPED WHEN REQUIRED.
 6. DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR OPENS ON HUMIDITY RISE TO GRAY WIRE FROM VSTB AND TO CUT HUM JUMPER ON VSTB.
 7. FOR DEHUMIDIFICATION CONNECT A 3AVAC DEHUMIDIST AT THAT LOCATION. SEE INSTRUCTIONS FOR DETAILS.

COMPONENT LEGEND

C	CONTACTOR
CCR	COMPRESSOR CONTACTOR RELAY
CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR MOTOR
CSR	COMPRESSOR SOLENOID RELAY
DFT	DEFROST THERMOSTAT
EM	EVAPORATOR MOTOR
GND	EQUIPMENT GROUND
HPS	HIGH PRESSURE SWITCH RELAY
LPS	LOW PRESSURE SWITCH RELAY
LVR	LOW VOLTAGE DEFROST RELAY
LVTR	LOW VOLTAGE DEFROST THERMOSTAT
PLF-C	FEMALE PLUG CONNECTOR - HEAT KIT
PLF-F	FEMALE PLUG CONNECTOR - PRESSURE SWITCH
PLF-M	MALE PLUG CONNECTOR - PRESSURE SWITCH
RVC	REVERSING VALVE COIL
SA	START ASSIST
TR	TRANSFORMER
VSTB	VARIABLE SPEED TERMINAL BOARD

FACTORY WIRING

---	LINE VOLTAGE
---	LOW VOLTAGE - HIGH VOLTAGE
---	VOLTAGE

FIELD WIRING

---	HIGH VOLTAGE
---	LOW VOLTAGE

WIRE CODE

BK	BLACK
BR	BROWN
GR	GREEN
OR	ORANGE
PK	PINK
RD	RED
WH	WHITE
YL	YELLOW

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

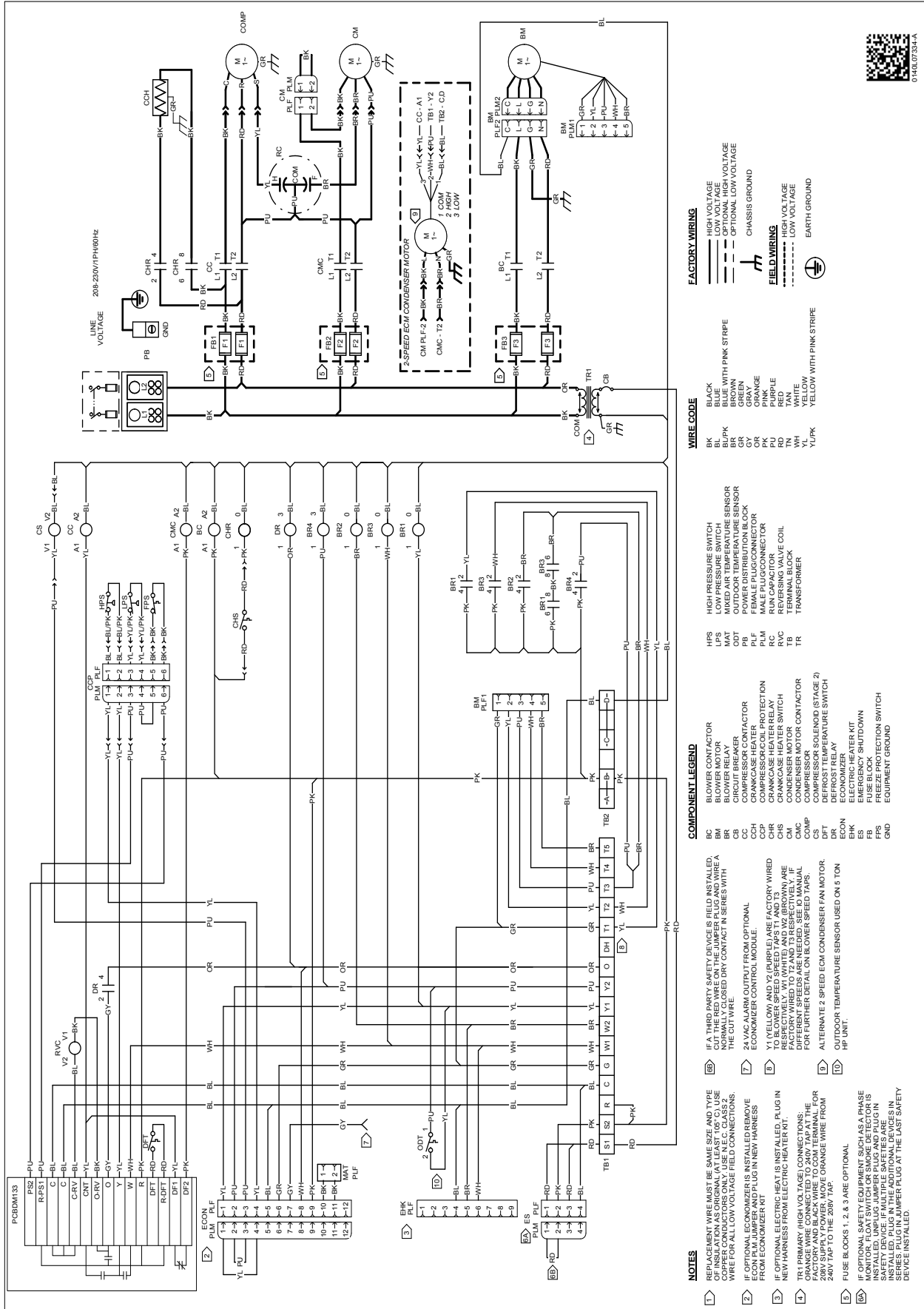


208-230/0160 01-140303225C

Wiring is subject to change. Always refer to the wiring diagram on 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.



WIRE CODE

BK BLACK
BL BLUE
BR BROWN
GR GREEN
OR ORANGE
PK PINK
RD RED
TN TAN
WH WHITE
YL YELLOW
YLPK YELLOW WITH PINK STRIPE

FACTORY WIRING

— HIGH VOLTAGE
— LOW VOLTAGE
- - - OPTIONAL LOW VOLTAGE

FIELD WIRING

— CHASSIS GROUND
— LOW VOLTAGE
— LOW VOLTAGE
— EARTH GROUND

COMPONENT LEGEND

BC BLOWER MOTOR
BM BLOWER MOTOR
BR BLOWER MOTOR
CC CRANKCASE HEATER
CCH CRANKCASE HEATER
CHR CRANKCASE HEATER
CM CONDENSER MOTOR
COM CONDENSER MOTOR
DFT DEFROST TEMPERATURE SWITCH
ECON ECONOMIZER CONTROL MODULE
ECON PLM PLM
ECON PLM2 PLM2
ECON PLM3 PLM3
ECON PLM4 PLM4
ECON PLM5 PLM5
ECON PLM6 PLM6
ECON PLM7 PLM7
ECON PLM8 PLM8
ECON PLM9 PLM9
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ECON PLM100 PLM100

NOTES

1 REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (AT LEAST 105°C) USE WIRE FOR ALL LOW VOLTAGE FIELD CONNECTIONS.

2 IF OPTIONAL ECONOMIZER IS INSTALLED REMOVE FROM ECONOMIZER KIT

3 IF OPTIONAL ELECTRIC HEAT IS INSTALLED, PLUG IN NEW HARNESS FROM ELECTRIC HEATER KIT.

4 TR1 PRIMARY (HIGH VOLTAGE) CONNECTIONS; FACTORY AND BLACK WIRE TO COM TERMINAL FOR 208V SUPPLY POWER, MOVE ORANGE WIRE FROM 208V WIRE TO THE 208V TAP.

5 FUSE BLOCKS 1, 2 & 3 ARE OPTIONAL.

6 IF OPTIONAL SAFETY EQUIPMENT SUCH AS A PHASE SAFETY SWITCH OR PHASE SAFETY SWITCH IS INSTALLED, UNPLUG JUMPER PLUG AND PLUG IN SAFETY DEVICE. IF MULTIPLE SAFETIES ARE IN SERIES, PLUG IN JUMPER PLUG AT THE LAST SAFETY DEVICE INSTALLED.

IF A THIRD PARTY SAFETY DEVICE IS FIELD INSTALLED, CUT THE RED WIRE ON THE JUMPER PLUG AND WIRE A NEW RED WIRE TO THE RED BRN CONTACT IN SERIES WITH THE CUT WIRE.

24 VAC ALARM OUTPUT FROM OPTIONAL ECONOMIZER CONTROL MODULE

Y1 (YELLOW) AND Y2 (PURPLE) ARE FACTORY WIRED TO BLOWER SPEED TAPS T1 AND T3. Y3 (ORANGE) AND Y4 (GREEN) ARE FACTORY WIRED TO T2 AND T4 RESPECTIVELY. IF DIFFERENT SPEEDS ARE NEEDED, SEE IO MANUAL FOR FURTHER DETAIL ON BLOWER SPEED TAPS.

ALTERNATE 2 SPEED ECM CONDENSER FAN MOTOR, HP UNIT.

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.

WARNING



0146073844

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)	OTHPPKG-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