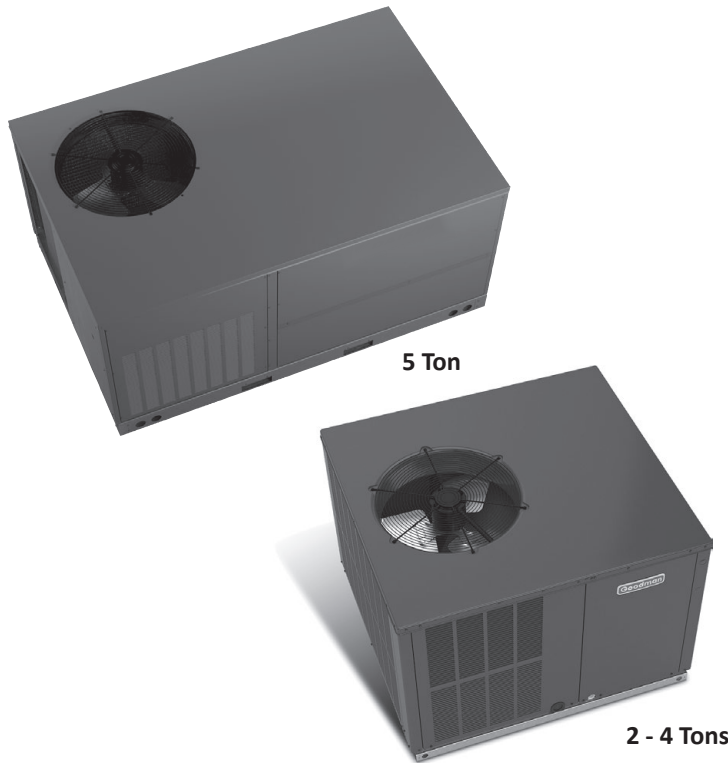


*HIGH-EFFICIENCY
PACKAGED HEAT PUMP
15.2 SEER2 / 6.7 HSPF2
2 TO 5 TONS*



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Standard Features

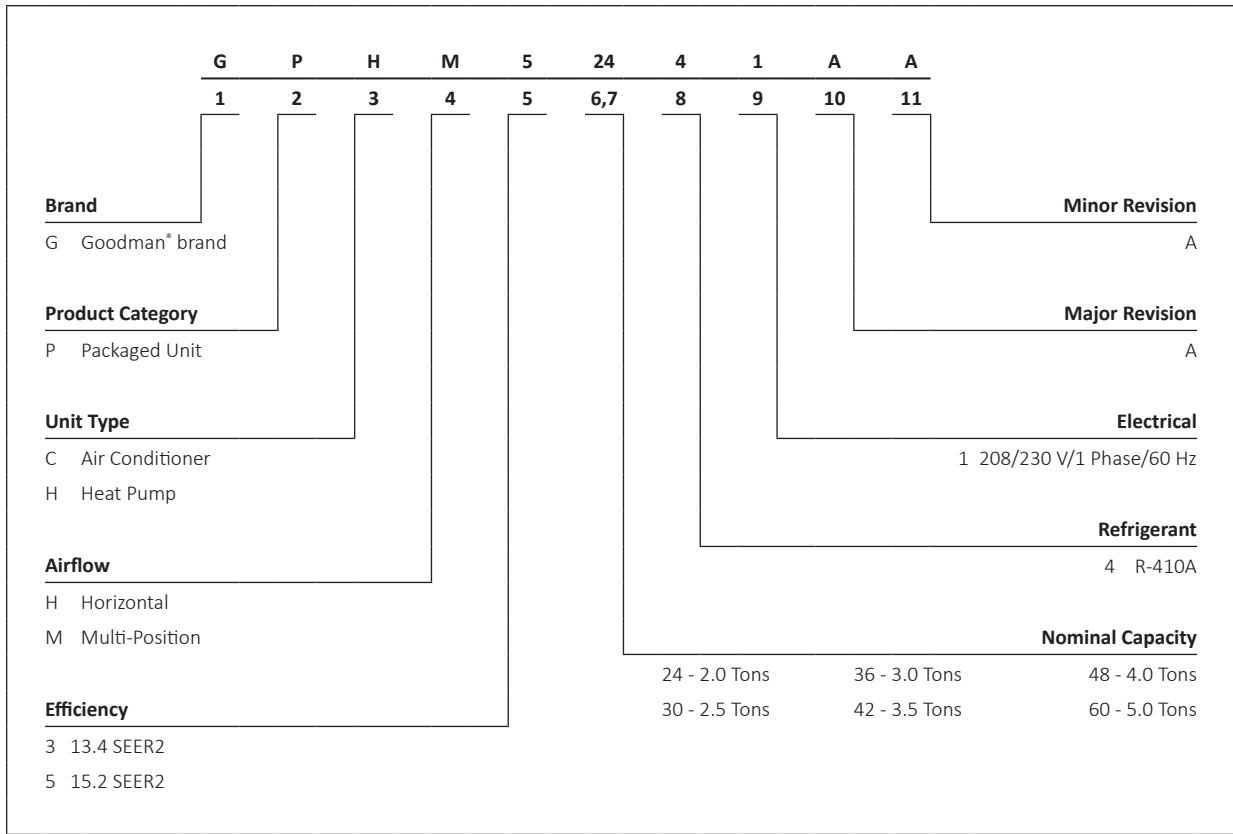
- High-efficiency two-stage scroll compressor
- Two-stage heating and cooling
- Multi-Speed ECM indoor blower motor
- Copper tube/aluminum fin condenser coils
- All-aluminum evaporator coil on 2- to 4-ton units
- Aluminum-copper evaporator coil on 5-ton units
- Liquid-line filter drier
- Convertible airflow: horizontal or downflow
- 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)



* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. The duration of warranty coverages in Texas differs in some cases.



	GPHM52441** + OTHPPKG	GPHM5 3041**	GPHM5 3641**	GPHM5 4241**	GPHM5 4841**	GPHM5 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	210288047	210288048	210288049	210288050	210288051	210288052
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	5	5	5	5	5	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	6.20	6.20	6.20	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	3.8	3.8	3.8	5.4	5.4	6.9
Outdoor Fan FLA	1.3	1.3	1.4	1.4	1.4	3.5
Min. Circuit Ampacity ¹	18.7	21.5	22.8	31.7	33.3	39
Max. Overcurrent Protection ²	25	30	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

EXPANDED COOLING DATA — GPHM52441** (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
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	-
850	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	-	
900	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
75	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		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
		Entering Indoor Wet Bulb Temperature																													
700	AIRFLOW	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
	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						
	S/T	1.00	0.76	0.62	0.5	1.00	0.77	0.63	0.5	1.00	1.00	0.66	0.5	1.00	1.00	0.68	0.5	1.00	1.00	0.70	0.6	1.00	1.00	1.00	0.6						
	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						
	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						
	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						
	Hi-PR	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						
	Lo-PR	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						
80	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						
	S/T	1.00	0.86	0.72	0.6	1.00	0.86	0.73	0.6	1.00	1.00	0.75	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.79	0.6	1.00	1.00	1.00	0.7						
	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						
	KW	1.52	1.52	1.52	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	5.74	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						
	Hi-PR	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						
	Lo-PR	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						
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						
	S/T	1.00	0.88	0.74	0.6	1.00	0.88	0.74	0.6	1.00	1.00	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	1.00	0.7						
	ΔT	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						
	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						
	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						
	Hi-PR	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						
	Lo-PR	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						
700	MBh	24.9	25.2	25.9	27.0	24.6	25.0	25.7	26.8	24.0	24.3	25.1	26.2	22.9	23.2	24.0	25.1	21.6	21.9	22.6	23.7	20.3	20.7	21.4	22.5						
	S/T	1.00	0.86	0.73	0.6	1.00	1.00	0.73	0.6	1.00	1.00	0.76	0.6	1.00	1.00	0.78	0.6	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.7						
	ΔT	21.73	20.48	18.16	15.8	21.69	20.45	18.13	15.7	21.87	20.63	18.30	15.9	21.68	20.44	18.12	15.7	21.52	20.27	17.95	15.5	22.29	21.05	18.73	16.3						
	KW	1.51	1.51	1.50	1.5	1.69	1.69	1.69	1.7	1.90	1.89	1.89	1.9	2.12	2.11	2.11	2.1	2.36	2.36	2.36	2.4	2.65	2.65	2.65	2.7						
	Amps	5.69	5.68	5.67	5.7	6.48	6.48	6.46	6.5	7.37	7.36	7.35	7.4	8.33	8.32	8.31	8.4	9.40	9.39	9.38	9.4	10.65	10.64	10.63	10.7						
	Hi-PR	244	245	247	250.9	282	283	285	289.2	322	323	325	329.4	366	367	368	372.6	412	413	415	419.2	462	463	465	469.0						
	Lo-PR	131	133	136	141.7	139	141	144	149.6	146	148	151	156.5	152	154	157	162.3	158	159	163	168.1	165	166	170	175.2						
850	MBh	25.3	25.6	26.4	27.5	25.1	25.4	26.1	27.3	24.4	24.8	25.5	26.6	23.3	23.7	24.4	25.5	22.0	22.3	23.1	24.2	20.8	21.1	21.8	23.0						
	S/T	1.00	1.00	0.82	0.7	1.00	1.00	0.83	0.7	1.00	1.00	0.85	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8						
	ΔT	20.62	19.37	17.05	14.6	20.58	19.34	17.02	14.6	20.76	19.51	17.19	14.8	20.57	19.33	17.01	14.6	20.40	19.16	16.84	14.4	21.18	19.94	17.62	15.2						
	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	2.13	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	6.54	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						
	Hi-PR	247	248	250	253.8	285	286	288	292.2	325	326	328	332.3	369	370	371	375.6	415	416	418	422.2	465	466	468	472.0						
	Lo-PR	134	136	139	144.4	142	143	147	152.3	149	150	154	159.2	155	156	159	165.0	160	162	165	170.7	167	169	172	177.9						
900	MBh	25.5	25.8	26.5	27.7	25.2	25.6	26.3	27.4	24.6	25.0	25.7	26.8	23.5	23.9	24.6	25.7	22.2	22.5	23.2	24.4	20.9	21.3	22.0	23.1						
	S/T	1.00	1.00	0.84	0.7	1.00	1.00	0.85	0.7	1.00	1.00	0.87	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8						
	ΔT	20.31	19.06	16.74	14.3	20.27	19.03	16.71	14.3	20.45	19.21	16.88	14.5	20.26	19.02	16.70	14.3	20.09	18.85	16.53	14.1	20.87	19.63	17.31	14.9						
	KW	1.53	1.53	1.52	1.5	1.71	1.71	1.71	1.7	1.91	1.91	1.91	1.9	2.13	2.13	2.13	2.1	2.38	2.38	2.38	2.4	2.67	2.67	2.66	2.7						
	Amps	5.77	5.76	5.75	5.8	6.56	6.55	6.54	6.6	7.44	7.44	7.43	7.5	8.40	8.40	8.38	8.4	9.47	9.47	9.45	9.5	10.73	10.72	10.71	10.8						
	Hi-PR	248	249	251	254.8	286	287	289	293.1	326	327	329	333.3	370	371	372	376.5	416	417	419	423.2	466	467	469	472.9						
	Lo-PR	135	137	140	145.3	143	144	148	153.2	150	151	155	160.1	156	157	160	166.0	161	163	166	171.7	168	170	173	178.9						

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)

EXPANDED COOLING DATA — GPHM52441** (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	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	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	158	161	167.0	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	1.00	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		OUTDOOR AMBIENT TEMPERATURE																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
		59	63	67	71	71	71	59	63	67	71	71	71	59	63	67	71	71	71	59	63	67	71	71	71	59	63	67	71	71	71						
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	-	-						
1125	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	32.3	29.6	30.1	31.0	32.3	32.3	28.9	29.3	30.2	31.6	31.6	27.5	27.9	28.8	30.2	30.2	25.9	26.3	27.2	28.6	28.6	24.4	24.8	25.7	27.1	27.1
	S/T	0.72	0.64	0.50	0.4	0.4	0.72	0.65	0.51	0.4	0.4	1.00	0.67	0.54	0.4	0.4	1.00	0.69	0.56	0.4	0.4	1.00	0.71	0.58	0.4	0.4	1.00	1.00	0.63	0.5	0.5
	ΔT	20.78	19.21	16.28	13.2	13.2	20.74	19.17	16.24	13.2	13.2	20.96	19.39	16.46	13.4	13.4	20.72	19.15	16.22	13.2	13.2	20.51	18.94	16.01	13.0	13.0	21.49	19.92	16.99	14.0	14.0
	kW	1.85	1.84	1.84	1.9	1.9	2.07	2.07	2.07	2.1	2.1	2.32	2.32	2.32	2.3	2.3	2.60	2.59	2.59	2.6	2.6	2.90	2.90	2.90	2.9	2.9	3.26	3.26	3.25	3.3	3.3
	Amps	6.84	6.83	6.82	6.9	6.9	7.82	7.82	7.80	7.9	7.9	8.92	8.91	8.89	9.0	9.0	10.10	10.09	10.08	10.2	10.2	11.42	11.42	11.40	11.5	11.5	12.98	12.97	12.95	13.0	13.0
	Hi PR	255	256	258	262.5	262.5	295	297	298	302.8	302.8	338	339	341	345.1	345.1	383	384	386	390.6	390.6	432	433	435	439.6	439.6	485	486	488	492.0	492.0
	Lo PR	125	127	130	135.3	135.3	133	134	138	143.0	143.0	140	141	144	149.7	149.7	145	147	150	155.3	155.3	151	152	156	160.9	160.9	158	159	162	167.9	167.9
	MBh	30.4	30.8	31.7	33.1	33.1	30.2	30.6	31.5	32.8	32.8	29.4	29.8	30.7	32.1	32.1	28.0	28.4	29.3	30.7	30.7	26.4	26.8	27.7	29.1	29.1	24.9	25.3	26.2	27.6	27.6
	S/T	0.81	0.73	0.59	0.4	0.4	1.00	0.74	0.60	0.5	0.5	1.00	0.76	0.62	0.5	0.5	1.00	0.78	0.64	0.5	0.5	1.00	1.00	0.67	0.5	0.5	1.00	1.00	0.72	0.6	0.6
	ΔT	19.47	17.90	14.97	11.9	11.9	19.42	17.85	14.93	11.9	11.9	19.64	18.08	15.15	12.1	12.1	19.41	17.84	14.91	11.9	11.9	19.20	17.63	14.70	11.7	11.7	20.18	18.61	15.68	12.6	12.6
1050	kW	1.86	1.86	1.86	1.9	1.9	2.09	2.09	2.08	2.1	2.1	2.34	2.34	2.33	2.4	2.4	2.61	2.61	2.61	2.6	2.6	2.92	2.92	2.91	2.9	2.9	3.27	3.27	3.27	3.3	3.3
	Amps	6.91	6.91	6.89	7.0	7.0	7.89	7.89	7.87	7.9	7.9	8.99	8.98	8.96	9.0	9.0	10.17	10.16	10.15	10.2	10.2	11.49	11.49	11.47	11.5	11.5	13.05	13.04	13.02	13.1	13.1
	Hi PR	258	259	261	265.4	265.4	298	299	301	305.8	305.8	341	342	344	348.0	348.0	386	387	389	393.5	393.5	435	436	438	442.6	442.6	488	489	490	494.9	494.9
	Lo PR	128	129	132	137.8	137.8	135	137	140	145.4	145.4	142	144	147	152.1	152.1	148	149	152	157.8	157.8	153	155	158	163.3	163.3	160	162	165	170.3	170.3
	MBh	30.7	31.1	32.0	33.4	33.4	30.4	30.8	31.7	33.1	33.1	29.6	30.1	31.0	32.3	32.3	28.3	28.7	29.6	31.0	31.0	26.6	27.1	28.0	29.3	29.3	25.1	25.6	26.5	27.8	27.8
	S/T	0.83	0.75	0.61	0.5	0.5	1.00	0.76	0.62	0.5	0.5	1.00	0.78	0.65	0.5	0.5	1.00	0.80	0.67	0.5	0.5	1.00	1.00	0.69	0.5	0.5	1.00	1.00	0.74	0.6	0.6
	ΔT	19.00	17.43	14.50	11.5	11.5	18.95	17.38	14.46	11.4	11.4	19.17	17.61	14.68	11.6	11.6	18.94	17.37	14.44	11.4	11.4	18.73	17.16	14.23	11.2	11.2	19.71	18.14	15.21	12.2	12.2
	kW	1.87	1.87	1.86	1.9	1.9	2.09	2.09	2.09	2.1	2.1	2.35	2.34	2.34	2.4	2.4	2.62	2.62	2.61	2.6	2.6	2.92	2.92	2.92	2.9	2.9	3.28	3.28	3.27	3.3	3.3
	Amps	6.94	6.93	6.91	7.0	7.0	7.92	7.91	7.89	8.0	8.0	9.01	9.00	8.99	9.1	9.1	10.20	10.19	10.17	10.2	10.2	11.52	11.51	11.50	11.6	11.6	13.07	13.06	13.05	13.1	13.1
	Hi PR	259	260	262	266.6	266.6	300	301	302	307.0	307.0	342	343	345	349.2	349.2	387	388	390	394.7	394.7	436	438	439	443.8	443.8	489	490	492	496.2	496.2
Lo PR	129	130	134	138.9	138.9	136	138	141	146.5	146.5	143	145	148	153.2	153.2	149	150	154	158.9	158.9	154	156	159	164.5	164.5	161	163	166	171.4	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)

IDB		OUTDOOR AMBIENT TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		65°F						75°F						85°F						95°F						105°F						115°F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		ENTERING INDOOR WET BULB TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
AIRFLOW		30.1	30.5	31.4	32.8	34.2	35.6	37.0	38.4	39.8	41.2	42.6	44.0	45.4	46.8	48.2	49.6	51.0	52.4	53.8	55.2	56.6	58.0	59.4	60.8	62.2	63.6	65.0	66.4	67.8	69.2	70.6	72.0	73.4	74.8	76.2	77.6	79.0	80.4	81.8	83.2	84.6	86.0	87.4	88.8	90.2	91.6	93.0	94.4	95.8	97.2	98.6	100.0	101.4	102.8	104.2	105.6	107.0	108.4	109.8	111.2	112.6	114.0	115.4	116.8	118.2	119.6	121.0	122.4	123.8	125.2	126.6	128.0	129.4	130.8	132.2	133.6	135.0	136.4	137.8	139.2	140.6	142.0	143.4	144.8	146.2	147.6	149.0	150.4	151.8	153.2	154.6	156.0	157.4	158.8	160.2	161.6	163.0	164.4	165.8	167.2	168.6	170.0	171.4	172.8	174.2	175.6	177.0	178.4	179.8	181.2	182.6	184.0	185.4	186.8	188.2	189.6	191.0	192.4	193.8	195.2	196.6	198.0	199.4	200.8	202.2	203.6	205.0	206.4	207.8	209.2	210.6	212.0	213.4	214.8	216.2	217.6	219.0	220.4	221.8	223.2	224.6	226.0	227.4	228.8	230.2	231.6	233.0	234.4	235.8	237.2	238.6	240.0	241.4	242.8	244.2	245.6	247.0	248.4	249.8	251.2	252.6	254.0	255.4	256.8	258.2	259.6	261.0	262.4	263.8	265.2	266.6	268.0	269.4	270.8	272.2	273.6	275.0	276.4	277.8	279.2	280.6	282.0	283.4	284.8	286.2	287.6	289.0	290.4	291.8	293.2	294.6	296.0	297.4	298.8	300.2	301.6	303.0	304.4	305.8	307.2	308.6	310.0	311.4	312.8	314.2	315.6	317.0	318.4	319.8	321.2	322.6	324.0	325.4	326.8	328.2	329.6	331.0	332.4	333.8	335.2	336.6	338.0	339.4	340.8	342.2	343.6	345.0	346.4	347.8	349.2	350.6	352.0	353.4	354.8	356.2	357.6	359.0	360.4	361.8	363.2	364.6	366.0	367.4	368.8	370.2	371.6	373.0	374.4	375.8	377.2	378.6	380.0	381.4	382.8	384.2	385.6	387.0	388.4	389.8	391.2	392.6	394.0	395.4	396.8	398.2	399.6	401.0	402.4	403.8	405.2	406.6	408.0	409.4	410.8	412.2	413.6	415.0	416.4	417.8	419.2	420.6	422.0	423.4	424.8	426.2	427.6	429.0	430.4	431.8	433.2	434.6	436.0	437.4	438.8	440.2	441.6	443.0	444.4	445.8	447.2	448.6	450.0	451.4	452.8	454.2	455.6	457.0	458.4	459.8	461.2	462.6	464.0	465.4	466.8	468.2	469.6	471.0	472.4	473.8	475.2	476.6	478.0	479.4	480.8	482.2	483.6	485.0	486.4	487.8	489.2	490.6	492.0	493.4	494.8	496.2	497.6	499.0	500.4	501.8	503.2	504.6	506.0	507.4	508.8	510.2	511.6	513.0	514.4	515.8	517.2	518.6	520.0	521.4	522.8	524.2	525.6	527.0	528.4	529.8	531.2	532.6	534.0	535.4	536.8	538.2	539.6	541.0	542.4	543.8	545.2	546.6	548.0	549.4	550.8	552.2	553.6	555.0	556.4	557.8	559.2	560.6	562.0	563.4	564.8	566.2	567.6	569.0	570.4	571.8	573.2	574.6	576.0	577.4	578.8	580.2	581.6	583.0	584.4	585.8	587.2	588.6	590.0	591.4	592.8	594.2	595.6	597.0	598.4	599.8	601.2	602.6	604.0	605.4	606.8	608.2	609.6	611.0	612.4	613.8	615.2	616.6	618.0	619.4	620.8	622.2	623.6	625.0	626.4	627.8	629.2	630.6	632.0	633.4	634.8	636.2	637.6	639.0	640.4	641.8	643.2	644.6	646.0	647.4	648.8	650.2	651.6	653.0	654.4	655.8	657.2	658.6	660.0	661.4	662.8	664.2	665.6	667.0	668.4	669.8	671.2	672.6	674.0	675.4	676.8	678.2	679.6	681.0	682.4	683.8	685.2	686.6	688.0	689.4	690.8	692.2	693.6	695.0	696.4	697.8	699.2	700.6	702.0	703.4	704.8	706.2	707.6	709.0	710.4	711.8	713.2	714.6	716.0	717.4	718.8	720.2	721.6	723.0	724.4	725.8	727.2	728.6	730.0	731.4	732.8	734.2	735.6	737.0	738.4	739.8	741.2	742.6	744.0	745.4	746.8	748.2	749.6	751.0	752.4	753.8	755.2	756.6	758.0	759.4	760.8	762.2	763.6	765.0	766.4	767.8	769.2	770.6	772.0	773.4	774.8	776.2	777.6	779.0	780.4	781.8	783.2	784.6	786.0	787.4	788.8	790.2	791.6	793.0	794.4	795.8	797.2	798.6	800.0	801.4	802.8	804.2	805.6	807.0	808.4	809.8	811.2	812.6	814.0	815.4	816.8	818.2	819.6	821.0	822.4	823.8	825.2	826.6	828.0	829.4	830.8	832.2	833.6	835.0	836.4	837.8	839.2	840.6	842.0	843.4	844.8	846.2	847.6	849.0	850.4	851.8	853.2	854.6	856.0	857.4	858.8	860.2	861.6	863.0	864.4	865.8	867.2	868.6	870.0	871.4	872.8	874.2	875.6	877.0	878.4	879.8	881.2	882.6	884.0	885.4	886.8	888.2	889.6	891.0	892.4	893.8	895.2	896.6	898.0	899.4	900.8	902.2	903.6	905.0	906.4	907.8	909.2	910.6	912.0	913.4	914.8	916.2	917.6	919.0	920.4	921.8	923.2	924.6	926.0	927.4	928.8	930.2	931.6	933.0	934.4	935.8	937.2	938.6	940.0	941.4	942.8	944.2	945.6	947.0	948.4	949.8	951.2	952.6	954.0	955.4	956.8	958.2	959.6	961.0	962.4	963.8	965.2	966.6	968.0	969.4	970.8	972.2	973.6	975.0	976.4	977.8	979.2	980.6	982.0	983.4	984.8	986.2	987.6	989.0	990.4	991.8	993.2	994.6	996.0	997.4	998.8	1000.2	1001.6	1003.0	1004.4	1005.8	1007.2	1008.6	1010.0	1011.4	1012.8	1014.2	1015.6	1017.0	1018.4	1019.8	1021.2	1022.6	1024.0	1025.4	1026.8	1028.2	1029.6	1031.0	1032.4	1033.8	1035.2	1036.6	1038.0	1039.4	1040.8	1042.2	1043.6	1045.0	1046.4	1047.8	1049.2	1050.6	1052.0	1053.4	1054.8	1056.2	1057.6	1059.0	1060.4	1061.8	1063.2	1064.6	1066.0	1067.4	1068.8	1070.2	1071.6	1073.0	1074.4	1075.8	1077.2	1078.6	1080.0	1081.4	1082.8	1084.2	1085.6	1087.0	1088.4	1089.8	1091.2	1092.6	1094.0	1095.4	1096.8	1098.2	1099.6	1101.0	1102.4	1103.8	1105.2	1106.6	1108.0	1109.4	1110.8	1112.2	1113.6	1115.0	1116.4	1117.8	1119.2	1120.6	1122.0	1123.4	1124.8	1126.2	1127.6	1129.0	1130.4	1131.8	1133.2	1134.6	1136.0	1137.4	1138.8	1140.2	1141.6	1143.0	1144.4	1145.8	1147.2	1148.6	1150.0	1151.4	1152.8	1154.2	1155.6	1157.0	1158.4	1159.8	1161.2	1162.6	1164.0	1165.4	1166.8	1168.2	1169.6	1171.0	1172.4	1173.8	1175.2	1176.6	1178.0	1179.4	1180.8	1182.2	1183.6	1185.0	1186.4	1187.8	1189.2	1190.6	1192.0	1193.4	1194.8	1196.2	1197.6	1199.0	1200.4	1201.8	1203.2	1204.6	1206.0	1207.4	1208.8	1210.2	1211.6	1213.0	1214.4	1215.8	1217.2	1218.6	1220.0	1221.4	1222.8	1224.2	1225.6	1227.0	1228.4	1229.8	1231.2	1232.6	1234.0	1235.4	1236.8	1238.2	1239.6	1241.0	1242.4	1243.8	1245.2	1246.6	1248.0	1249.4	1250.8	1252.2	1253.6	1255.0	1256.4	1257.8	1259.2	1260.6	1262.0	1263.4	1264.8	1266.2	1267.6	1269.0	1270.4	1271.8	1273.2	1274.6	1276.0	1277.4	1278.8	1280.2	1281.6	1283.0	1284.4	1285.8	1287.2	1288.6	1290.0	1291.4	1292.8	1294.2	1295.6	1297.0	1298.4	1299.8	1301.2	1302.6	1304.0	1305.4	1306.8	1308.2	1309.6	1311.0	1312.4	1313.8	1315.2	1316.6	1318.0	1319.4	1320.8	1322.2	1323.6	1325.0	1326.4	1327.8	1329.2	1330.6	1332.0	1333.4	1334.8	1336.2	1337.6	1339.0	1340.4	1341.8	1343.2	1344.6	1346.0	1347.4	1348.8	1350.2	1351.6	1353.0	1354.4	1355.8	1357.2	1358.6	1360.0	1361.4	1362.8	1364.2	1365.6	1367.0	1368.4	1369.8	1371.2	1372.6	1374.0	1375.4	1376.8	1378.2	1379.6	1381.0	1382.4	1383.8	1385.2	1386.6	1388.0	1389.4	1390.8	1392.2	1393.6	1395.0	1396.4	1397.8	1399.2	1400.6	1402.0	1403.4	1404.8	1406.2	1407.6	1409.0	1410.4	1411.8	1413.2	1414.6	1416.0	1417.4	1418.8	1420.2	1421.6	1423.0	1424.4	1425.8	1427.2	1428.6	1430.0	1431.4	1432.8	1434.2	1435.6	1437.0	1438.4	1439.8	1441.2	1442.6	1444.0	1445.4	1446.8	1448.2	1449.6	1451.0	1452.4	1453.8	1455.2	1456.6	1458.0	1459.4	1460.8	1462.2	1463.6	1465.0	1466.4	1467.8	1469.2	1470.6	1472.0	1473.4	1474.8	1476.2	1477.6	1479.0	1480.4	1481.8	1483.2	1484.6	1486.0	1487.4	1488.8	1490.2	1491.6	1493.0	1494.4	1495.8	1497.2	1498.6	1500.0	1501.4	1502.8	1504.2	1505.6	1507.0	1508.4	1509.8	1511.2	1512.6	1514.0	1515.4	1516.8	1518.2	1519.6	1521.0	1522.4	1523.8	1525.2	1526.6	1528.0	1529.4	1530.8	1532.2	1533.6	1535.0	1536.4	1537.8	1539.2	1540.6	1542.0	1543.4	1544.8	1546.2	1547.6	1549.0	1550.4	1551.8	1553.2	1554.6	1556.0	1557.4	1558.8	1560.2	1561.6	1563.0	1564.4	1565.8	1567.2	1568.6	1570.0	1571.4	1572.8	1574.2	1575.6	1577.0	1578.4	1579.8	1581.2	1582.6	1584.0	1585.4	1586.8	1588.2	1589.6	1591.0	1592.4	1593.8	1595.2	1596.6	1598.0	1599.4	1600.8	1602.2	1603.6	1605.0	1606.4	1607.8	1609.2	1610.6	1612.0	1613.4	1614.8	1616.2	1617.6	1619.0	1620.4	1621.8	1623.2	1624.6	1626.0	1627.4	1628.8</

EXPANDED COOLING DATA — GPHM53041** (LOW STAGE)

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								
70	AIRFLOW	21.5	21.8	22.4	22.8	21.3	21.6	22.3	22.7	20.7	21.0	21.7	22.1	19.8	20.1	20.7	21.1	18.6	18.9	19.5	20.5	17.5	17.8	18.5	17.5	17.8	18.5	17.5	17.8	18.5							
	MBh	0.60	0.52	0.38	0.39	0.61	0.53	0.39	0.42	1.00	0.56	0.42	0.44	1.00	0.58	0.44	0.44	1.00	0.60	0.46	1.00	0.60	0.46	1.00	0.60	0.46	1.00	0.60	0.46								
	S/T	16.72	15.21	12.38	12.34	16.68	15.17	12.34	12.55	16.67	15.15	12.32	12.32	16.46	14.95	12.12	12.12	16.46	14.95	12.12	12.12	16.46	14.95	12.12	12.12	16.46	14.95	12.12	12.12	16.46							
	ΔT	1.16	1.16	1.16	1.16	1.30	1.30	1.30	1.46	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63							
	kW	4.31	4.30	4.29	4.29	4.92	4.92	4.91	5.60	6.36	6.35	6.34	6.34	6.36	6.36	6.35	6.34	6.36	6.36	6.35	6.34	6.36	6.36	6.35	6.34	6.36	6.36	6.35	6.34	6.36							
	Amps	244	245	246	246	282	283	285	323	324	325	325	324	366	367	369	369	413	414	416	416	463	464	466	463	464	466	463	464	466							
	Hi PR	129	130	134	134	137	138	141	143	145	148	148	145	149	151	154	154	155	157	159	160	162	164	167	162	164	167	162	164	167							
	Lo PR	21.9	22.2	22.4	22.8	21.7	22.0	22.6	22.6	21.1	21.4	22.1	22.1	20.1	20.4	21.1	21.1	19.0	19.3	19.9	20.9	17.9	18.2	18.8	17.9	18.2	18.8	17.9	18.2	18.8							
	MBh	0.69	0.61	0.47	0.47	0.70	0.62	0.48	0.51	1.00	0.65	0.51	0.53	1.00	0.67	0.53	0.53	1.00	0.69	0.55	1.00	0.69	0.55	1.00	0.69	0.55	1.00	0.69	0.55	1.00							
	S/T	15.46	13.94	11.12	11.12	15.41	13.90	11.07	11.29	15.63	14.11	11.29	11.06	15.40	13.89	11.06	11.06	15.20	13.68	10.86	10.86	16.15	14.63	11.80	16.15	14.63	11.80	16.15	14.63	11.80							
ΔT	1.17	1.17	1.17	1.17	1.31	1.31	1.31	1.47	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64								
kW	4.35	4.35	4.34	4.34	4.97	4.96	4.95	5.64	6.40	6.40	6.39	6.39	6.40	6.40	6.39	6.39	6.40	6.40	6.39	6.39	6.40	6.40	6.39	6.39	6.40	6.40	6.39	6.39	6.40								
Amps	246	248	249	249	285	286	288	325	327	328	328	327	369	370	372	372	416	417	419	419	466	467	469	466	467	469	466	467	469								
Hi PR	131	133	136	136	139	141	144	146	148	151	151	148	152	153	157	157	159	160	162	162	165	166	170	165	166	170	165	166	170								
Lo PR	22.0	22.4	23.0	23.0	21.9	22.2	22.8	22.8	21.3	21.6	22.2	22.2	20.3	20.6	21.3	21.3	19.1	19.4	20.1	20.1	18.1	18.4	19.0	18.1	18.4	19.0	18.1	18.4	19.0								
MBh	0.72	0.64	0.50	0.50	0.72	0.64	0.50	0.53	1.00	0.67	0.53	0.55	1.00	0.69	0.55	0.55	1.00	0.71	0.57	1.00	0.71	0.57	1.00	0.71	0.57	1.00	0.71	0.57	1.00								
S/T	15.00	13.49	10.66	10.62	14.96	13.45	10.62	10.83	15.17	13.66	10.83	10.61	14.95	13.43	10.61	10.61	14.74	13.23	10.40	10.40	15.69	14.18	11.35	15.69	14.18	11.35	15.69	14.18	11.35								
ΔT	1.18	1.18	1.17	1.17	1.32	1.32	1.31	1.47	1.65	1.65	1.64	1.64	1.65	1.65	1.64	1.64	1.65	1.65	1.64	1.64	1.65	1.65	1.64	1.64	1.65	1.65	1.64	1.64	1.65								
kW	4.37	4.36	4.35	4.35	4.98	4.98	4.97	5.66	6.42	6.41	6.40	6.40	6.42	6.41	6.40	6.40	6.42	6.41	6.40	6.40	6.47	6.48	6.47	6.47	6.48	6.47	6.48	6.47	6.47								
Amps	248	249	250	250	286	287	289	327	328	329	329	327	370	371	373	373	417	418	420	420	467	468	470	467	468	470	467	468	470								
Hi PR	132	134	137	137	140	142	145	147	149	152	152	149	153	155	158	158	159	160	164	164	166	167	171	166	167	171	166	167	171								
Lo PR	21.5	21.8	22.5	23.4	21.3	21.6	22.3	23.2	20.8	21.1	21.7	22.7	21.1	19.8	20.1	20.7	21.7	18.6	18.9	19.5	20.5	17.5	17.8	18.5	17.5	17.8	18.5	17.5	17.8	18.5							
MBh	0.74	0.66	0.52	0.4	1.00	0.66	0.52	0.4	1.00	0.69	0.55	0.4	0.5	1.00	0.71	0.57	0.4	1.00	1.00	0.59	0.4	1.00	1.00	0.65	0.5	1.00	1.00	0.65	0.5								
S/T	20.05	18.54	15.71	12.8	20.01	18.50	15.67	12.7	20.22	18.71	15.88	13.0	11.7	19.99	18.48	15.65	12.7	19.79	18.28	15.45	12.5	20.74	19.23	16.40	20.74	19.23	16.40	13.5	13.5								
ΔT	1.16	1.16	1.16	1.2	1.30	1.30	1.30	1.3	1.46	1.46	1.46	1.5	1.63	1.63	1.63	1.63	1.6	1.82	1.82	1.82	1.8	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.1								
kW	4.30	4.30	4.29	4.3	4.92	4.92	4.91	5.0	5.61	5.60	5.59	5.6	6.35	6.35	6.34	6.34	6.4	7.19	7.18	7.17	7.2	8.16	8.16	8.15	8.16	8.16	8.15	8.2	8.2								
Amps	244	245	247	250.9	282	284	285	289.5	323	324	326	329.9	366	367	369	373.4	413	414	416	420.3	463	464	466	463	464	466	463	464	466								
Hi PR	129	130	134	139.1	137	138	141	147.0	143	145	148	153.9	149	151	154	159.7	155	157	160	165.4	162	164	167	162	164	167	162	164	167								
Lo PR	21.9	22.2	22.8	23.8	21.7	22.0	22.6	23.6	21.1	21.4	22.1	23.1	20.1	20.5	21.1	22.1	21.1	19.0	19.3	19.9	20.9	17.9	18.2	18.8	17.9	18.2	18.8	17.9	18.2	18.8							
MBh	0.83	0.75	0.61	0.5	1.00	0.76	0.61	0.5	1.00	0.78	0.64	0.5	0.5	1.00	0.80	0.66	0.5	1.00	1.00	0.68	0.5	1.00	1.00	0.74	0.6	1.00	1.00	0.74	0.6								
S/T	18.79	17.27	14.44	11.5	18.74	17.23	14.40	11.5	18.96	17.44	14.62	11.7	11.7	18.73	17.21	14.39	11.5	18.53	17.01	14.19	11.3	19.47	17.96	15.13	19.47	17.96	15.13	12.2	12.2								
ΔT	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	1.83	1.83	1.83	1.8	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.1	2.1								
kW	4.35	4.34	4.33	4.4	4.96	4.96	4.95	5.0	5.65	5.65	5.64	5.7	6.40	6.39	6.38	6.38	6.4	7.23	7.23	7.21	7.3	8.21	8.20	8.19	8.21	8.20	8.19	8.2	8.2								
Amps	247	248	249	253.7	285	286	288	292.3	326	327	328	332.7	369	370	372	376.2	416	417	419	423.1	466	467	469	466	467	469	466	467	469								
Hi 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	165	166	170	165	166	170								
Lo PR	22.1	22.4	23.0	24.0	21.9	22.2	22.8	23.8	21.3	21.6	22.3	23.2	20.3	20.6	21.3	22.3	21.1	19.2	19.5	20.1	21.1	18.1	18.4	19.0	18.1	18.4	19.0	20.0	20.0								
MBh	0.85	0.77	0.63	0.5	1.00	0.78	0.64	0.5	1.00	0.80	0.66	0.5	0.5	1.00	0.82	0.68	0.5	1.00	1.00	0.71	0.6	1.00	1.00	0.76	0.6	1.00	1.00	0.76	0.6								
S/T	18.33	16.82	13.99	11.1	18.29	16.78	13.95	11.0	18.50	16.99	14.16	11.2	11.2	18.27	16.76	13.93	11.0	18.07	16.56	13.73	10.8	19.02	17.51	14.68	19.02	17.51	14.68	11.8	11.8								
ΔT	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	2.06	2.06	2.06	2.06	2.1	2.1								
kW	4.36	4.36	4.35	4.4	4.98	4.98	4.97	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	8.22	8.22	8.21	8.2	8.3	8.3								
Amps	248	249	251	254.9	286	287	289	293.4	327	328	330	333.9	370	371	373	377.4	417	418	420	424.3	467	468	470	467	468	470	467	468	470								
Hi PR	132	134	137	142.8	140	142	145	150.6	147	149	152	157.5	153	155	158	163.4	159	160	164	169.1	166	167	171	166	167	171	166	167	171								
Lo PR	21.5	21.8	22.5	23.4	21.3	21.6	22.3	23.2	20.8	21.1	21.7	22.7	21.1	19.8	20.1	20.7	21.7	18.6	18.9	19.5	20.5	17.5	17.8	18.5	17.5	17.8	18.5	17.5	17.8	18.5							

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

Shaded area reflects ACCA (TVA) conditions.

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.

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	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	0.68	0.5	1.00	1.00	0.70	0.6	1.00	1.00	0.72	0.6	1.00	1.00	1.00	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	1.30	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
	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
	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	1.00	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	
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	
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	1.00	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	
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	
85	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	1.00	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
	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
	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	1.00	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	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	
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	
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	1.00	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	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	
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)

EXPANDED COOLING DATA — GPHM53641** (HIGH 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	34.6	35.1	36.1	-	34.3	34.8	35.8	-	33.4	33.9	34.9	-	31.8	32.3	33.3	-	29.9	30.4	31.4	-	28.2	28.7	29.7	-
	S/T	0.61	0.54	0.40	-	0.62	0.54	0.41	-	1.00	0.57	0.43	-	1.00	0.59	0.45	-	1.00	0.61	0.47	-	1.00	1.00	0.53	-
	ΔT	11.50	10.43	8.45	-	11.47	10.40	8.42	-	11.62	10.55	8.57	-	11.46	10.39	8.41	-	11.31	10.25	8.27	-	11.98	10.92	8.93	-
	kW	2.14	2.14	2.14	-	2.40	2.40	2.39	-	2.69	2.69	2.68	-	3.00	3.00	2.99	-	3.35	3.34	3.34	-	3.75	3.75	3.75	-
	Amps	7.94	7.93	7.92	-	9.06	9.05	9.04	-	10.31	10.30	10.29	-	11.67	11.66	11.64	-	13.18	13.17	13.15	-	14.95	14.94	14.92	-
	Hi PR	250	251	253	-	289	290	292	-	331	332	333	-	375	376	378	-	423	424	426	-	474	475	477	-
	Lo PR	129	130	134	-	137	138	141	-	143	145	148	-	149	151	154	-	155	157	160	-	162	164	167	-
	MBh	35.0	35.5	36.6	-	34.7	35.2	36.3	-	33.8	34.3	35.4	-	32.3	32.8	33.8	-	30.4	30.9	31.9	-	28.6	29.1	30.2	-
	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	10.85	9.79	7.80	-	10.82	9.76	7.78	-	10.97	9.91	7.93	-	10.81	9.75	7.76	-	10.67	9.61	7.62	-	11.34	10.27	8.29	-
kW	2.16	2.15	2.15	-	2.41	2.41	2.41	-	2.70	2.70	2.69	-	3.01	3.01	3.01	-	3.36	3.36	3.35	-	3.77	3.77	3.76	-	
Amps	8.00	7.99	7.97	-	9.12	9.11	9.09	-	10.37	10.36	10.34	-	11.72	11.71	11.70	-	13.23	13.23	13.21	-	15.01	15.00	14.98	-	
Hi PR	252	253	255	-	291	293	294	-	333	334	336	-	377	378	380	-	425	426	428	-	476	477	479	-	
Lo PR	131	132	136	-	138	140	143	-	145	147	150	-	151	153	156	-	157	158	162	-	164	166	169	-	
MBh	35.6	36.1	37.1	-	35.3	35.8	36.8	-	34.4	34.9	35.9	-	32.8	33.3	34.3	-	30.9	31.4	32.4	-	29.2	29.7	30.7	-	
S/T	0.71	0.63	0.50	-	0.72	0.64	0.50	-	1.00	0.66	0.53	-	1.00	0.68	0.55	-	1.00	0.71	0.57	-	1.00	1.00	0.62	-	
ΔT	10.31	9.25	7.26	-	10.28	9.22	7.24	-	10.43	9.37	7.38	-	10.27	9.21	7.22	-	10.13	9.07	7.08	-	10.80	9.73	7.75	-	
kW	2.17	2.17	2.16	-	2.43	2.42	2.42	-	2.71	2.71	2.71	-	3.02	3.02	3.02	-	3.37	3.37	3.36	-	3.78	3.78	3.77	-	
Amps	8.05	8.04	8.02	-	9.17	9.16	9.14	-	10.42	10.41	10.39	-	11.77	11.76	11.74	-	13.28	13.27	13.26	-	15.06	15.05	15.03	-	
Hi PR	254	255	257	-	294	295	296	-	335	336	338	-	379	380	382	-	427	428	430	-	478	480	481	-	
Lo PR	133	134	138	-	141	142	145	-	147	149	152	-	153	155	158	-	159	161	164	-	166	168	171	-	
75	MBh	34.6	35.1	36.1	37.7	34.3	34.8	35.8	37.4	33.4	33.9	34.9	36.5	31.8	32.3	33.4	34.9	29.9	30.4	31.5	33.0	28.2	28.7	29.7	31.3
	S/T	0.75	0.67	0.53	0.4	1.00	0.67	0.54	0.4	1.00	0.70	0.56	0.4	1.00	0.72	0.58	0.4	1.00	1.00	0.60	0.5	1.00	1.00	0.66	0.5
	ΔT	13.83	12.77	10.78	8.7	13.80	12.74	10.76	8.7	13.95	12.89	10.90	8.8	13.79	12.73	10.74	8.7	13.65	12.59	10.60	8.5	14.32	13.25	11.27	9.2
	kW	2.14	2.14	2.13	2.2	2.40	2.40	2.39	2.4	2.69	2.68	2.68	2.7	3.00	3.00	2.99	3.0	3.34	3.34	3.34	3.4	3.75	3.75	3.75	3.8
	Amps	7.94	7.93	7.91	8.0	9.06	9.05	9.03	9.1	10.31	10.30	10.28	10.4	11.66	11.65	11.63	11.7	13.17	13.16	13.14	13.2	14.94	14.93	14.91	15.0
	Hi PR	250	251	253	257.3	290	291	292	296.8	331	332	334	338.1	375	376	378	382.5	423	424	426	430.5	474	476	477	481.7
	Lo PR	129	130	134	139.1	137	138	141	147.0	143	145	148	153.8	149	151	154	159.6	155	157	160	165.3	162	164	167	172.5
	MBh	35.1	35.6	36.6	38.2	34.8	35.2	36.3	37.9	33.9	34.3	35.4	37.0	32.3	32.8	33.8	35.4	30.4	30.9	31.9	33.5	28.7	29.2	30.2	31.8
	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	13.19	12.13	10.14	8.1	13.16	12.10	10.11	8.1	13.31	12.25	10.26	8.2	13.15	12.09	10.10	8.0	13.01	11.95	9.96	7.9	13.67	12.61	10.63	8.6
kW	2.15	2.15	2.15	2.2	2.41	2.41	2.41	2.4	2.70	2.70	2.69	2.7	3.01	3.01	3.00	3.0	3.36	3.36	3.35	3.4	3.77	3.76	3.76	3.8	
Amps	7.99	7.99	7.97	8.1	9.11	9.11	9.09	9.2	10.36	10.36	10.34	10.4	11.72	11.71	11.69	11.8	13.23	13.22	13.20	13.3	15.00	14.99	14.97	15.1	
Hi PR	252	253	255	259.4	292	293	295	298.9	333	334	336	340.2	377	379	380	384.7	425	427	428	432.6	477	478	479	483.8	
Lo PR	131	132	136	141.0	139	140	143	148.9	145	147	150	155.7	151	153	156	161.5	157	158	162	167.2	164	166	169	174.4	
MBh	35.6	36.1	37.1	38.7	35.3	35.8	36.8	38.4	34.4	34.9	35.9	37.5	32.8	33.3	34.4	35.9	30.9	31.4	32.5	34.0	29.2	29.7	30.7	32.3	
S/T	0.84	0.76	0.63	0.5	1.00	0.77	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	0.75	0.6	
ΔT	12.65	11.59	9.60	7.5	12.62	11.56	9.57	7.5	12.77	11.71	9.72	7.7	12.61	11.55	9.56	7.5	12.47	11.40	9.42	7.4	13.13	12.07	10.09	8.0	
kW	2.17	2.16	2.16	2.2	2.42	2.42	2.42	2.4	2.71	2.71	2.70	2.7	3.02	3.02	3.02	3.0	3.37	3.37	3.36	3.4	3.78	3.78	3.77	3.8	
Amps	8.04	8.03	8.02	8.1	9.16	9.15	9.13	9.2	10.41	10.40	10.38	10.5	11.77	11.76	11.74	11.8	13.28	13.27	13.25	13.3	15.05	15.04	15.02	15.1	
Hi PR	254	255	257	261.5	294	295	297	300.9	335	336	338	342.2	380	381	382	386.7	427	429	430	434.7	479	480	482	485.9	
Lo PR	133	134	138	143.1	141	142	145	151.0	147	149	152	157.8	153	155	158	163.6	159	161	164	169.3	166	168	171	176.5	

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	1050	MBh	34.8	35.3	36.3	37.9	34.5	35.0	36.0	37.6	33.6	34.1	35.1	36.7	32.0	32.5	33.5	35.1	30.1	30.6	31.6	33.2	28.4	28.9	29.9	31.5
		S/T	1.00	0.80	0.66	0.5	1.00	0.80	0.66	0.5	1.00	1.00	0.69	0.5	1.00	1.00	0.71	0.6	1.00	1.00	0.73	0.6	1.00	1.00	1.00	0.6
		ΔT	16.19	15.12	13.14	11.1	16.16	15.09	13.11	11.1	16.31	15.24	13.26	11.2	16.15	15.08	13.10	11.0	16.00	14.94	12.96	10.9	16.67	15.61	13.62	11.6
		kW	2.14	2.14	2.14	2.2	2.40	2.40	2.39	2.4	2.69	2.69	2.68	2.7	3.00	3.00	2.99	3.0	3.35	3.34	3.34	3.4	3.75	3.75	3.75	3.8
		Amps	7.94	7.93	7.91	8.0	9.06	9.05	9.03	9.1	10.31	10.30	10.28	10.4	11.66	11.66	11.64	11.7	13.18	13.17	13.15	13.2	14.95	14.94	14.92	15.0
	Hi/PR	251	252	253	257.8	290	291	293	297.2	331	332	334	338.5	376	377	379	383.0	424	425	427	431.0	475	476	478	482.2	
	Lo/PR	129	131	134	139.7	137	139	142	147.6	144	146	149	154.4	150	151	155	160.2	156	157	160	165.9	163	164	168	173.0	
	1200	MBh	35.2	35.7	36.8	38.3	34.9	35.4	36.5	38.0	34.0	34.5	35.6	37.1	32.5	33.0	34.0	35.6	30.6	31.1	32.1	33.7	28.8	29.3	30.4	31.9
		S/T	1.00	0.86	0.72	0.6	1.00	0.86	0.73	0.6	1.00	1.00	0.75	0.6	1.00	1.00	0.80	0.7	1.00	1.00	0.79	0.6	1.00	1.00	1.00	0.7
		ΔT	15.54	14.48	12.50	10.4	15.51	14.45	12.47	10.4	15.66	14.60	12.62	10.6	15.50	14.44	12.46	10.4	15.36	14.30	12.31	10.3	16.03	14.96	12.98	10.9
kW		2.16	2.15	2.15	2.2	2.41	2.41	2.41	2.4	2.70	2.70	2.69	2.7	3.01	3.01	3.01	3.0	3.36	3.36	3.36	3.4	3.77	3.77	3.76	3.8	
Amps		8.00	7.99	7.97	8.1	9.12	9.11	9.09	9.2	10.37	10.36	10.34	10.4	11.72	11.71	11.69	11.8	13.23	13.22	13.21	13.3	15.01	15.00	14.98	15.1	
Hi/PR	253	254	256	259.9	292	293	295	299.3	333	335	336	340.6	378	379	381	385.1	426	427	429	433.1	477	478	480	484.3		
Lo/PR	131	133	136	141.6	139	141	144	149.4	146	148	151	156.3	152	153	157	162.1	157	159	162	167.8	165	166	169	174.9		
1350	MBh	35.8	36.3	37.3	38.9	35.5	36.0	37.0	38.6	34.6	35.1	36.1	37.7	33.0	33.5	34.5	36.1	31.1	31.6	32.6	34.2	29.4	29.9	30.9	32.5	
	S/T	1.00	0.89	0.75	0.6	1.00	0.90	0.76	0.6	1.00	1.00	0.78	0.6	1.00	1.00	0.80	0.7	1.00	1.00	0.83	0.7	1.00	1.00	1.00	0.7	
	ΔT	15.00	13.94	11.95	9.9	14.97	13.91	11.93	9.9	15.12	14.06	12.08	10.0	14.96	13.90	11.92	9.9	14.82	13.76	11.77	9.7	15.49	14.42	12.44	10.4	
	kW	2.17	2.17	2.16	2.2	2.42	2.42	2.42	2.4	2.71	2.71	2.71	2.7	3.02	3.02	3.02	3.0	3.37	3.37	3.36	3.4	3.78	3.78	3.77	3.8	
	Amps	8.05	8.04	8.02	8.1	9.17	9.16	9.14	9.2	10.42	10.41	10.39	10.5	11.77	11.76	11.74	11.8	13.28	13.27	13.25	13.3	15.06	15.05	15.03	15.1	
Hi/PR	255	256	258	262.0	294	295	297	301.4	336	337	338	342.7	380	381	383	387.2	428	429	431	435.2	479	480	482	486.3		
Lo/PR	133	135	138	143.7	141	143	146	151.5	148	150	153	158.4	154	155	159	164.2	160	161	164	169.9	167	168	172	177.0		
85	1050	MBh	35.4	35.9	36.9	38.5	35.1	35.6	36.6	38.2	34.2	34.6	35.7	37.3	32.6	33.1	34.1	35.7	30.7	31.2	32.2	33.8	29.0	29.5	30.5	32.1
		S/T	1.00	0.90	0.76	0.6	1.00	1.00	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.81	0.7	1.00	1.00	0.73	0.6	1.00	1.00	1.00	0.7
		ΔT	18.27	17.21	15.23	13.2	18.24	17.18	15.20	13.1	18.39	17.33	15.35	13.3	18.23	17.17	15.19	13.1	18.09	17.03	15.04	13.0	18.76	17.69	15.71	13.7
		kW	2.15	2.15	2.14	2.2	2.41	2.40	2.40	2.4	2.69	2.69	2.69	2.7	3.00	3.00	3.00	3.0	3.35	3.35	3.34	3.4	3.76	3.76	3.75	3.8
		Amps	7.96	7.95	7.94	8.0	9.08	9.07	9.06	9.1	10.33	10.32	10.31	10.4	11.69	11.68	11.66	11.7	13.20	13.19	13.17	13.3	14.97	14.96	14.94	15.0
	Hi/PR	252	253	255	259.0	291	292	294	298.4	333	334	335	339.7	377	378	380	384.2	425	426	428	432.1	476	477	479	483.3	
	Lo/PR	131	133	136	141.6	139	141	144	149.5	146	148	151	156.3	152	153	157	162.1	157	159	162	167.8	165	166	169	175.0	
	1200	MBh	35.8	36.3	37.3	38.9	35.5	36.0	37.0	38.6	34.6	35.1	36.1	37.7	33.1	33.5	34.6	36.2	31.2	31.7	32.7	34.3	29.4	29.9	30.9	32.5
		S/T	1.00	0.96	0.82	0.7	1.00	1.00	0.83	0.7	1.00	1.00	0.85	0.7	1.00	1.00	1.00	0.7	1.00	1.00	0.8	0.8	1.00	1.00	1.00	0.8
		ΔT	17.63	16.57	14.58	12.5	17.60	16.54	14.55	12.5	17.75	16.69	14.70	12.6	17.59	16.53	14.54	12.5	17.45	16.39	14.40	12.3	18.11	17.05	15.07	13.0
kW		2.16	2.16	2.15	2.2	2.42	2.42	2.41	2.4	2.71	2.70	2.70	2.7	3.02	3.02	3.01	3.0	3.36	3.36	3.36	3.4	3.77	3.77	3.77	3.8	
Amps		8.02	8.01	7.99	8.1	9.14	9.13	9.11	9.2	10.39	10.38	10.36	10.4	11.74	11.73	11.72	11.8	13.25	13.25	13.23	13.3	15.03	15.02	15.00	15.1	
Hi/PR	254	255	257	261.1	293	294	296	300.5	335	336	337	341.8	379	380	382	386.3	427	428	430	434.3	478	479	481	485.5		
Lo/PR	133	135	138	143.5	141	143	146	151.4	148	149	153	158.2	154	155	159	164.0	159	161	164	169.7	167	168	171	176.9		
1350	MBh	36.4	36.9	37.9	39.5	36.1	36.6	37.6	39.2	35.2	35.6	36.7	38.3	33.6	34.1	35.1	36.7	31.7	32.2	33.2	34.8	30.0	30.5	31.5	33.1	
	S/T	1.00	1.00	0.86	0.7	1.00	1.00	0.86	0.7	1.00	1.00	0.89	0.7	1.00	1.00	1.00	0.8	1.00	1.00	0.8	0.8	1.00	1.00	1.00	0.8	
	ΔT	17.09	16.03	14.04	12.0	17.06	16.00	14.01	12.0	17.21	16.15	14.16	12.1	17.05	15.99	14.00	11.9	16.91	15.85	13.86	11.8	17.57	16.51	14.53	12.5	
	kW	2.17	2.17	2.17	2.2	2.43	2.43	2.42	2.4	2.72	2.72	2.71	2.7	3.03	3.03	3.02	3.0	3.38	3.37	3.37	3.4	3.78	3.78	3.78	3.8	
	Amps	8.07	8.06	8.04	8.1	9.19	9.18	9.16	9.2	10.44	10.43	10.41	10.5	11.79	11.78	11.76	11.9	13.30	13.29	13.28	13.4	15.08	15.07	15.05	15.1	
Hi/PR	256	257	259	263.1	295	296	298	302.6	337	338	340	343.9	381	382	384	388.4	429	430	432	436.3	480	481	483	487.5		
Lo/PR	135	137	140	145.6	143	145	148	153.5	150	152	155	160.3	156	157	161	166.1	161	163	166	171.8	169	170	173	179.0		

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Design Subcooling 8 ±2 °F @ the liquid access fitting connection 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)

EXPANDED COOLING DATA — GPHM53641** (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	24.9	25.2	26.0	-	24.6	25.0	25.7	-	24.0	24.4	25.1	-	22.9	23.2	24.0	-	21.5	21.9	22.6	-	20.3	20.6	21.4	-
	S/T	0.63	0.55	0.41	-	0.64	0.56	0.42	-	1.00	0.58	0.44	-	1.00	0.60	0.46	-	1.00	0.63	0.49	-	1.00	1.00	0.54	-
	ΔT	11.09	10.07	8.15	-	11.06	10.04	8.12	-	11.21	10.18	8.27	-	11.05	10.03	8.11	-	10.92	9.89	7.98	-	11.56	10.53	8.62	-
	KW	1.35	1.35	1.34	-	1.51	1.51	1.51	-	1.69	1.69	1.69	-	1.89	1.89	1.88	-	2.11	2.10	2.10	-	2.36	2.36	2.36	-
	Amps	5.00	4.99	4.98	-	5.70	5.70	5.68	-	6.49	6.48	6.47	-	7.34	7.33	7.32	-	8.29	8.28	8.27	-	9.40	9.40	9.39	-
	Hi PR	239	240	242	-	277	278	279	-	316	317	319	-	359	360	361	-	404	406	407	-	453	454	456	-
	Lo PR	132	134	137	-	140	142	145	-	147	149	152	-	153	155	158	-	159	161	164	-	167	168	172	-
	MBh	25.2	25.5	26.3	-	25.0	25.3	26.1	-	24.3	24.7	25.4	-	23.2	23.6	24.3	-	21.8	22.2	22.9	-	20.6	20.9	21.7	-
	S/T	0.69	0.61	0.47	-	0.70	0.62	0.48	-	1.00	0.65	0.51	-	1.00	0.67	0.53	-	1.00	0.69	0.55	-	1.00	1.00	0.60	-
	ΔT	10.47	9.45	7.53	-	10.45	9.42	7.50	-	10.59	9.56	7.65	-	10.43	9.41	7.49	-	10.30	9.27	7.36	-	10.94	9.91	8.00	-
KW	1.36	1.36	1.35	-	1.52	1.52	1.51	-	1.70	1.70	1.70	-	1.89	1.89	1.89	-	2.11	2.11	2.11	-	2.37	2.37	2.37	-	
Amps	5.03	5.03	5.02	-	5.74	5.73	5.72	-	6.52	6.52	6.51	-	7.37	7.37	7.36	-	8.32	8.32	8.31	-	9.44	9.43	9.42	-	
Hi PR	241	242	244	-	279	280	281	-	318	319	321	-	361	362	363	-	407	408	409	-	455	456	458	-	
Lo PR	134	136	139	-	142	144	147	-	149	151	154	-	155	157	160	-	161	163	166	-	169	170	174	-	
MBh	25.6	25.9	26.7	-	25.4	25.7	26.5	-	24.7	25.1	25.8	-	23.6	24.0	24.7	-	22.2	22.6	23.3	-	21.0	21.3	22.1	-	
S/T	0.73	0.65	0.51	-	1.00	0.66	0.51	-	1.00	0.68	0.54	-	1.00	0.70	0.56	-	1.00	1.00	0.58	-	1.00	1.00	0.64	-	
ΔT	9.95	8.93	7.01	-	9.92	8.90	6.98	-	10.07	9.04	7.13	-	9.91	8.89	6.97	-	9.78	8.75	6.83	-	10.42	9.39	7.48	-	
KW	1.36	1.36	1.36	-	1.53	1.52	1.52	-	1.71	1.70	1.70	-	1.90	1.90	1.90	-	2.12	2.12	2.12	-	2.38	2.38	2.37	-	
Amps	5.06	5.06	5.05	-	5.77	5.76	5.75	-	6.55	6.55	6.54	-	7.40	7.40	7.39	-	8.36	8.35	8.34	-	9.47	9.46	9.45	-	
Hi PR	243	244	246	-	281	282	283	-	320	321	323	-	363	364	365	-	408	410	411	-	457	458	460	-	
Lo PR	136	138	141	-	145	146	150	-	152	153	157	-	158	159	163	-	163	165	168	-	171	172	176	-	

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

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Design Subcooling 8 ±2 °F @ the liquid access fitting connection 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)

		OUTDOOR AMBIENT TEMPERATURE																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
		59			67			71			59			67			71			59			67			71			59			67			71		
70	1225	MBh	42.0	42.6	43.8	-	41.6	42.2	43.5	-	40.5	41.1	42.4	-	38.7	39.2	40.5	-	36.4	37.0	38.2	-	34.3	34.9	36.1	-											
		S/T	0.63	0.56	0.42	-	0.64	0.56	0.43	-	0.66	0.59	0.46	-	1.00	0.61	0.48	-	1.00	0.63	0.50	-	1.00	0.68	0.55	-											
		ΔT	12.03	10.88	8.74	-	12.00	10.85	8.71	-	12.16	11.01	8.87	-	11.99	10.84	8.69	-	11.83	10.69	8.54	-	12.55	11.41	9.26	-											
	1300	kW	2.56	2.56	2.55	-	2.88	2.88	2.87	-	3.24	3.24	3.23	-	3.63	3.62	3.62	-	4.06	4.06	4.05	-	4.56	4.56	4.56	-											
		Amps	9.63	9.62	9.60	-	11.03	11.01	10.99	-	12.58	12.57	12.54	-	14.26	14.25	14.22	-	16.14	16.13	16.10	-	18.34	18.33	18.30	-											
		Hi PR	261	262	264	-	302	303	305	-	345	346	348	-	391	392	394	-	441	442	444	-	494	495	497	-											
	1575	Lo PR	126	128	131	-	134	135	139	-	141	142	145	-	146	148	151	-	152	153	156	-	159	160	163	-											
		MBh	42.3	42.8	44.1	-	41.9	42.5	43.7	-	40.8	41.4	42.6	-	38.9	39.5	40.8	-	36.6	37.2	38.5	-	34.5	35.1	36.4	-											
		S/T	0.66	0.58	0.45	-	0.66	0.59	0.45	-	0.69	0.61	0.48	-	1.00	0.63	0.50	-	1.00	0.65	0.52	-	1.00	0.71	0.57	-											
	75	1225	ΔT	11.73	10.58	8.43	-	11.70	10.55	8.40	-	11.86	10.71	8.56	-	11.69	10.54	8.39	-	11.53	10.38	8.24	-	12.25	11.10	8.96	-										
kW			2.57	2.57	2.56	-	2.89	2.89	2.88	-	3.25	3.24	3.24	-	3.66	3.65	3.65	-	4.09	4.09	4.08	-	4.59	4.59	4.59	-											
Amps			9.67	9.66	9.63	-	11.06	11.05	11.02	-	12.61	12.60	12.58	-	14.29	14.28	14.26	-	16.17	16.16	16.13	-	18.37	18.36	18.34	-											
1300		Hi PR	262	263	265	-	303	304	306	-	346	347	349	-	392	393	395	-	442	443	445	-	495	496	498	-											
		Lo PR	127	129	132	-	135	136	139	-	141	143	146	-	147	149	152	-	153	154	157	-	160	161	164	-											
		MBh	43.5	44.0	45.3	-	43.1	43.7	44.9	-	42.0	42.6	43.8	-	40.1	40.7	41.9	-	37.8	38.4	39.7	-	35.7	36.3	37.6	-											
1575		S/T	0.70	0.63	0.49	-	0.71	0.63	0.50	-	1.00	0.66	0.52	-	1.00	0.68	0.54	-	1.00	0.70	0.56	-	1.00	1.00	0.61	-											
		ΔT	10.78	9.63	7.49	-	10.75	9.60	7.45	-	10.91	9.76	7.62	-	10.74	9.59	7.44	-	10.58	9.43	7.29	-	11.30	10.15	8.01	-											
		kW	2.59	2.59	2.58	-	2.91	2.91	2.90	-	3.27	3.27	3.26	-	3.66	3.65	3.65	-	4.09	4.09	4.08	-	4.59	4.59	4.59	-											
1225		Amps	9.76	9.75	9.73	-	11.16	11.14	11.12	-	12.71	12.70	12.67	-	14.39	14.38	14.35	-	16.27	16.25	16.23	-	18.47	18.46	18.43	-											
	Hi PR	265	267	268	-	306	308	309	-	349	350	352	-	396	397	399	-	445	447	448	-	499	500	502	-												
	Lo PR	131	132	135	-	138	140	143	-	145	147	150	-	151	152	155	-	156	158	161	-	163	165	168	-												
75	1225	MBh	42.0	42.6	43.9	45.8	41.6	42.2	43.5	45.4	40.6	41.1	42.4	44.3	38.7	39.3	40.5	42.4	36.4	37.0	38.2	40.1	34.3	34.9	36.1	38.0											
		S/T	0.76	0.69	0.55	0.41	1.00	0.69	0.56	0.42	1.00	0.72	0.58	0.44	1.00	0.74	0.61	0.47	1.00	0.78	0.65	0.51	1.00	1.00	0.68	0.53											
		ΔT	14.56	13.41	11.26	9.04	14.53	13.38	11.23	9.01	14.69	13.54	11.39	9.17	14.85	13.71	11.56	9.34	14.36	13.21	11.07	8.84	15.08	13.93	11.79	9.56											
	1300	kW	2.56	2.56	2.55	2.58	2.88	2.88	2.87	2.90	3.24	3.24	3.23	3.25	3.62	3.62	3.62	3.64	4.06	4.05	4.05	4.07	4.56	4.56	4.55	4.58											
		Amps	9.63	9.61	9.59	9.70	11.02	11.01	10.98	11.09	12.57	12.56	12.53	12.64	14.25	14.24	14.21	14.32	16.13	16.12	16.09	16.20	18.33	18.32	18.30	18.40											
		Hi PR	261	262	264	269	302	303	305	309	345	346	348	352	391	392	394	399	441	442	444	448	494	495	497	502											
	1575	Lo PR	126	128	131	136	134	135	139	144	141	142	145	151	146	148	151	156	152	153	156	162	159	160	163	169											
		MBh	42.3	42.9	44.1	46.0	41.9	42.5	43.7	45.7	40.8	41.4	42.7	44.6	38.9	39.5	40.8	42.7	36.7	37.2	38.5	40.4	34.6	35.2	36.4	38.3											
		S/T	0.79	0.71	0.58	0.44	1.00	0.72	0.58	0.44	1.00	0.74	0.61	0.47	1.00	0.76	0.63	0.49	1.00	0.78	0.65	0.51	1.00	1.00	0.70	0.56											
	1225	ΔT	14.25	13.11	10.96	8.74	14.22	13.07	10.93	8.71	14.38	13.24	11.09	8.87	14.21	13.06	10.92	8.69	14.06	12.91	10.76	8.54	14.78	13.63	11.48	9.26											
kW		2.57	2.57	2.56	2.58	2.89	2.89	2.88	2.90	3.25	3.24	3.24	3.26	3.63	3.63	3.62	3.65	4.06	4.06	4.06	4.08	4.57	4.57	4.56	4.59												
Amps		9.66	9.65	9.62	9.73	11.05	11.04	11.01	11.12	12.60	12.59	12.57	12.67	14.28	14.27	14.25	14.35	16.16	16.15	16.12	16.23	18.36	18.35	18.33	18.43												
1300	Hi PR	262	263	265	270	303	304	306	310	346	347	349	353	392	393	395	400	442	443	445	449	495	496	498	503												
	Lo PR	127	129	132	137	135	136	139	145	141	143	146	151	147	149	152	157	153	154	157	163	160	161	164	170												
	MBh	43.5	44.1	45.3	47.2	43.1	43.7	44.9	46.8	42.0	42.6	43.8	45.8	40.1	40.7	42.0	43.9	37.8	38.4	39.7	41.6	35.8	36.3	37.6	39.5												
1575	S/T	0.83	0.75	0.62	0.48	1.00	0.76	0.63	0.48	1.00	0.78	0.65	0.51	1.00	0.80	0.67	0.53	1.00	1.00	0.69	0.55	1.00	1.00	0.74	0.60												
	ΔT	13.31	12.16	10.01	7.79	13.27	12.13	9.98	7.76	13.44	12.29	10.14	7.92	13.26	12.11	9.97	7.75	13.11	11.96	9.82	7.59	13.83	12.68	10.53	8.31												
	kW	2.59	2.59	2.58	2.61	2.91	2.91	2.90	2.93	3.27	3.27	3.26	3.28	3.65	3.65	3.65	3.67	4.09	4.08	4.08	4.10	4.59	4.59	4.58	4.61												
1225	Amps	9.76	9.74	9.72	9.83	11.15	11.14	11.11	11.22	12.70	12.69	12.66	12.77	14.38	14.37	14.34	14.45	16.26	16.25	16.22	16.33	18.46	18.45	18.42	18.53												
	Hi PR	266	267	269	273	307	308	310	314	350	351	353	357	396	397	399	403	446	447	449	453	499	500	502	506												
	Lo PR	131	132	135	141	138	140	143	148	145	147	150	155	151	152	155	161	156	158	161	166	163	165	168	173												

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Design Subcooling 8 ±2 °F @ the liquid access fitting connection 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		OUTDOOR AMBIENT TEMPERATURE												105°F												115°F											
		65°F						75°F						85°F						95°F						105°F						115°F					
		AIRFLOW		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						
1225	MBh	42.24	42.83	44.07	45.97	41.86	42.45	43.70	45.60	40.77	41.36	42.61	44.51	38.90	39.49	40.73	42.64	36.61	37.20	38.44	40.35	34.52	35.11	36.35	38.26												
	S/T	1.00	0.81	0.68	0.54	1.00	0.82	0.68	0.54	1.00	0.84	0.71	0.57	1.00	1.00	0.73	0.59	1.00	1.00	0.75	0.61	1.00	1.00	0.80	0.66												
	ΔT	17.10	15.95	13.81	11.58	17.07	15.92	13.78	11.55	17.23	16.08	13.94	11.71	17.06	15.91	13.76	11.54	16.90	15.75	13.61	11.39	17.62	16.47	14.33	12.11												
	kW	2.56	2.56	2.55	2.58	2.88	2.88	2.87	2.90	3.24	3.24	3.23	3.26	3.63	3.62	3.62	3.64	4.06	4.06	4.05	4.07	4.56	4.56	4.56	4.58												
	Amps	9.63	9.62	9.60	9.70	11.02	11.01	10.99	11.10	12.58	12.57	12.54	12.65	14.26	14.25	14.22	14.33	16.13	16.12	16.10	16.21	18.34	18.33	18.30	18.41												
	Hi PR	261.53	262.65	264.48	269.00	302.49	303.62	305.44	309.97	345.41	346.54	348.36	352.89	391.62	392.75	394.58	399.10	441.45	442.58	444.40	448.93	494.62	495.75	497.57	502.10												
	Lo PR	126.82	128.26	131.55	136.89	134.44	135.99	139.18	144.51	141.11	142.66	145.85	151.18	146.76	148.30	151.49	156.83	152.29	153.84	157.03	162.37	159.23	160.78	163.97	169.30												
	MBh	42.50	43.09	44.34	46.24	42.13	42.72	43.96	45.87	41.04	41.63	42.87	44.78	39.16	39.75	41.00	42.90	36.87	37.46	38.71	40.61	34.78	35.37	36.62	38.52												
	S/T	1.00	0.83	0.70	0.56	1.00	0.84	0.71	0.57	1.00	0.86	0.73	0.59	1.00	1.00	0.75	0.61	1.00	1.00	0.77	0.63	1.00	1.00	0.82	0.68												
	ΔT	16.80	15.65	13.50	11.28	16.77	15.62	13.47	11.25	16.93	15.78	13.63	11.41	16.75	15.61	13.46	11.24	16.60	15.45	13.31	11.08	17.32	16.17	14.03	11.80												
	kW	2.57	2.57	2.56	2.59	2.89	2.89	2.88	2.91	3.25	3.24	3.24	3.26	3.63	3.63	3.63	3.65	4.07	4.06	4.06	4.08	4.57	4.57	4.56	4.59												
	Amps	9.66	9.65	9.63	9.74	11.06	11.04	11.02	11.13	12.61	12.60	12.57	12.68	14.29	14.28	14.25	14.36	16.17	16.15	16.13	16.24	18.37	18.36	18.33	18.44												
Hi PR	262.53	263.65	265.48	270.00	303.49	304.62	306.44	310.97	346.41	347.54	349.36	353.89	392.62	393.75	395.58	400.10	442.45	443.58	445.40	449.93	495.62	496.75	498.58	503.10													
Lo PR	127.69	129.23	132.42	137.76	135.31	136.85	140.04	145.38	141.98	143.53	146.72	152.05	147.63	149.17	152.36	157.70	153.16	154.71	157.90	163.24	160.10	161.65	164.84	170.17													
MBh	43.69	44.28	45.53	47.43	43.32	43.91	45.15	47.06	42.23	42.82	44.06	45.97	40.35	40.94	42.19	44.09	38.06	38.65	39.90	41.80	35.97	36.56	37.81	39.71													
S/T	1.00	0.88	0.74	0.60	1.00	0.88	0.75	0.61	1.00	1.00	0.77	0.63	1.00	1.00	0.79	0.65	1.00	1.00	0.82	0.67	1.00	1.00	1.00	0.73													
ΔT	15.85	14.70	12.56	10.33	15.82	14.67	12.52	10.30	15.98	14.83	12.69	10.46	15.81	14.66	12.51	10.29	15.65	14.50	12.36	10.14	16.37	15.22	13.08	10.86													
kW	2.59	2.59	2.58	2.61	2.91	2.91	2.90	2.93	3.27	3.27	3.26	3.29	3.66	3.65	3.65	3.67	4.09	4.09	4.08	4.10	4.59	4.59	4.59	4.61													
Amps	9.76	9.75	9.73	9.83	11.15	11.14	11.12	11.23	12.71	12.70	12.67	12.78	14.39	14.38	14.35	14.46	16.26	16.25	16.23	16.34	18.47	18.46	18.43	18.54													
Hi PR	266.17	267.30	269.13	273.65	307.14	308.27	310.09	314.62	350.06	351.19	353.01	357.54	396.27	397.40	399.22	403.75	446.10	447.22	449.05	453.58	499.27	500.40	502.22	506.75													
Lo PR	131.30	132.85	136.04	141.37	138.92	140.47	143.66	148.99	145.60	147.14	150.33	155.67	151.24	152.79	155.98	161.31	156.78	158.32	161.51	166.85	163.71	165.26	168.45	173.78													

IDB		OUTDOOR AMBIENT TEMPERATURE												105°F												115°F											
		65°F						75°F						85°F						95°F						105°F						115°F					
		AIRFLOW		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						
1225	MBh	42.9	43.5	44.8	46.7	42.6	43.2	44.4	46.3	41.5	42.1	43.3	45.2	39.6	40.2	41.4	43.3	37.3	37.9	39.1	41.1	35.2	35.8	37.1	39.0												
	S/T	1.00	0.91	0.78	0.64	1.00	1.00	0.78	0.64	1.00	1.00	0.81	0.67	1.00	1.00	0.83	0.69	1.00	1.00	0.83	0.69	1.00	1.00	1.00	0.71												
	ΔT	19.36	18.21	16.06	13.84	19.32	18.18	16.03	13.81	19.49	18.34	16.19	13.97	19.31	18.16	16.02	13.80	19.16	18.01	15.87	13.64	19.88	18.73	16.58	14.36												
	kW	2.57	2.57	2.56	2.59	2.89	2.89	2.88	2.91	3.25	3.24	3.24	3.26	3.63	3.63	3.62	3.65	4.06	4.06	4.06	4.08	4.57	4.57	4.56	4.59												
	Amps	9.66	9.65	9.62	9.73	11.05	11.04	11.02	11.12	12.60	12.59	12.57	12.67	14.28	14.27	14.25	14.36	16.16	16.15	16.13	16.23	18.36	18.35	18.33	18.44												
	Hi PR	263	264	266	270	304	305	307	311	347	348	350	354	393	394	396	400	443	444	446	450	496	497	499	503												
	Lo PR	129	130	133	139	136	138	141	146	143	145	148	153	149	150	153	159	154	156	159	164	161	163	166	171												
	MBh	43.2	43.8	45.0	46.9	42.8	43.4	44.7	46.6	41.7	42.3	43.6	45.5	39.9	40.5	41.7	43.6	37.6	38.2	39.4	41.3	35.5	36.1	37.3	39.2												
	S/T	1.00	0.93	0.80	0.66	1.00	1.00	0.81	0.67	1.00	1.00	0.83	0.69	1.00	1.00	0.85	0.71	1.00	1.00	0.85	0.71	1.00	1.00	1.00	0.78												
	ΔT	19.05	17.90	15.76	13.54	19.02	17.87	15.73	13.51	19.18	18.03	15.89	13.67	19.01	17.86	15.72	13.49	18.86	17.71	15.56	13.34	19.58	18.43	16.28	14.06												
	kW	2.58	2.57	2.57	2.59	2.90	2.89	2.89	2.91	3.25	3.25	3.24	3.27	3.64	3.64	3.63	3.66	4.07	4.07	4.06	4.09	4.58	4.58	4.57	4.59												
	Amps	9.69	9.68	9.66	9.76	11.08	11.07	11.05	11.15	12.63	12.62	12.60	12.71	14.32	14.30	14.28	14.39	16.19	16.18	16.16	16.26	18.40	18.38	18.36	18.47												
Hi PR	264	265	267	271	305	306	308	312	348	349	351	355	394	395	397	401	444	445	447	451	497	498	500	504													
Lo PR	130	131	134	140	137	139	142	147	144	145	149	154	150	151	154	160	155	157	160	165	162	164	167	172													
MBh	44.4	45.0	46.2	48.1	44.0	44.6	45.9	47.8	42.9	43.5	44.8	46.7	41.1	41.6	42.9	44.8	38.8	39.4	40.6	42.5	36.7	37.3	38.5	40.4													
S/T	1.00	0.98	0.84	0.70	1.00	1.00	0.85	0.71	1.00	1.00	0.87	0.73	1.00	1.00	0.89	0.75	1.00	1.00	0.90	0.77	1.00	1.00	1.00	0.83													
ΔT	18.10	16.96	14.81	12.59	18.07	16.92	14.78	12.56	18.23	17.09	14.94	12.72	18.06	16.91	14.77	12.55	17.91	16.76	14.61	12.39	18.63	17.48	15.33	13.11													
kW	2.60	2.60	2.59	2.61	2.92	2.92	2.91	2.93	3.28	3.27	3.27	3.29	3.66	3.66	3.65	3.68	4.09	4.09	4.09	4.11	4.60	4.60	4.59	4.62													
Amps	9.79	9.78	9.75	9.86	11.18	11.17	11.15	11.25	12.73	12.72	12.70	12.80	14.41	14.40	14.38	14.48	16.29	16.28	16.26	16.36	18.49	18.48	18.46	18.56													
Hi PR	267	269	270	275	308	309	311	316	351	352	354	359	397	399	400	405	447	448	450	455	500	502	503	508													
Lo PR	133	135	138	143	141	142	146	151	147	149	152	158	153	155	158	163	159	160	163	169	166	167	170	176													

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 — GPHM54241** (LOW STAGE)

IDB		OUTDOOR AMBIENT TEMPERATURE												115°F																	
		65°F						75°F						85°F						95°F						105°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	AIRFLOW	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	-						
	MBh	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	-						
	S/T	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	-						
	ΔT	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	-						
	kW	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	-						
	Amps	249	250	252	-	289	290	291	-	330	331	332	-	374	375	377	-	421	422	424	-	472	473	475	-						
	Hi PR	130	131	135	-	138	139	142	-	144	146	149	-	150	152	155	-	156	158	161	-	163	165	168	-						
	Lo PR	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	-						
	MBh	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	-						
	S/T	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	-						
ΔT	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	-							
kW	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	-							
Amps	250	251	253	-	289	291	292	-	330	332	333	-	375	376	377	-	422	423	425	-	473	474	476	-							
Hi PR	131	132	136	-	138	140	143	-	145	147	150	-	151	153	156	-	157	158	162	-	164	166	169	-							
Lo PR	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	-							
MBh	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	-							
S/T	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	-							
ΔT	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	-							
kW	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	-							
Amps	254	255	257	-	293	294	296	-	334	335	337	-	378	379	381	-	426	427	429	-	477	478	479	-							
Hi PR	134	136	139	-	142	144	147	-	149	151	154	-	155	156	160	-	161	162	165	-	168	169	173	-							
Lo PR																															

IDB		OUTDOOR AMBIENT TEMPERATURE												115°F																	
		65°F						75°F						85°F						95°F						105°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	AIRFLOW	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						
	MBh	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	0.78	0.64	0.50	1.00	1.00	0.69	0.55						
	S/T	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						
	ΔT	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						
	kW	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						
	Amps	250	251	252	257	289	290	292	296	330	331	333	337	374	375	377	381	422	423	424	429	472	473	475	480						
	Hi 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						
	Lo PR	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						
	MBh	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	0.80	0.67	0.52	1.00	1.00	0.72	0.57						
	S/T	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						
ΔT	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							
kW	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							
Amps	251	252	253	258	290	291	293	297	331	332	334	338	375	376	378	382	423	423	424	425	473	474	476	481							
Hi PR	131	132	136	141	139	140	143	149	145	147	150	156	151	153	156	162	157	158	162	167	164	166	169	174							
Lo PR	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							
MBh	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	0.80	0.69	0.54	1.00	0.82	0.71	0.57	1.00	1.00	0.76	0.62							
S/T	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							
ΔT	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							
kW	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							
Amps	254	255	257	261	293	294	296	300	334	335	337	341	378	379	381	386	426	427	429	433	477	478	480	484							
Hi PR	134	136	139	145	142	144	147	153	149	151	154	159	155	156	160	165	161	162	165	165	168	169	173	178							
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 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)

		OUTDOOR AMBIENT TEMPERATURE																							
		65°F				75°F				85°F				95°F											
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
1400	MBh	47.31	47.98	49.39	-	46.88	47.55	48.97	-	45.65	46.32	47.73	-	43.52	44.19	45.61	-	40.93	41.59	43.01	-	38.56	39.22	40.64	-
	S/T	0.62	0.54	0.41	-	0.63	0.55	0.41	-	0.65	0.58	0.44	-	1.00	0.60	0.46	-	1.00	0.62	0.48	-	1.00	0.67	0.53	-
	ΔT	13.44	12.20	9.88	-	13.41	12.16	9.84	-	13.58	12.34	10.02	-	13.40	12.15	9.83	-	13.23	11.99	9.66	-	14.01	12.76	10.44	-
	kW	2.97	2.97	2.97	-	3.34	3.33	3.33	-	3.74	3.74	3.73	-	4.18	4.17	4.17	-	4.66	4.66	4.65	-	5.23	5.23	5.23	-
	Amps	10.73	10.72	10.69	-	12.30	12.29	12.26	-	14.05	14.04	14.01	-	15.95	15.94	15.91	-	18.07	18.06	18.03	-	20.55	20.54	20.52	-
70	Hi PR	270.85	272.02	273.93	-	313.58	314.76	316.66	-	358.36	359.53	361.44	-	406.57	407.75	409.65	-	458.56	459.73	461.63	-	514.03	515.20	517.11	-
	Lo PR	124.09	125.62	128.78	-	131.64	133.18	136.33	-	138.25	139.79	142.95	-	143.84	145.38	148.54	-	149.33	150.87	154.02	-	156.20	157.74	160.90	-
	MBh	47.93	48.60	50.01	-	47.51	48.17	49.59	-	46.27	46.94	48.35	-	44.15	44.81	46.23	-	41.55	42.22	43.63	-	39.18	39.85	41.26	-
	S/T	0.68	0.61	0.47	-	0.69	0.61	0.47	-	0.72	0.64	0.50	-	1.00	0.66	0.52	-	1.00	0.68	0.54	-	1.00	0.73	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	-
1600	kW	2.99	2.99	2.98	-	3.35	3.35	3.35	-	3.76	3.75	3.75	-	4.19	4.19	4.18	-	4.68	4.68	4.67	-	5.25	5.25	5.24	-
	Amps	10.81	10.80	10.77	-	12.38	12.37	12.34	-	14.13	14.12	14.09	-	16.03	16.02	15.99	-	18.15	18.14	18.11	-	20.64	20.62	20.60	-
	Hi PR	273.15	274.32	276.23	-	315.89	317.06	318.97	-	360.66	361.84	363.74	-	408.87	410.05	411.95	-	460.86	462.03	463.94	-	516.33	517.51	519.41	-
	Lo PR	125.92	127.45	130.61	-	133.47	135.00	138.16	-	140.08	141.61	144.77	-	145.67	147.20	150.36	-	151.16	152.69	155.85	-	158.03	159.56	162.72	-
	MBh	48.68	49.34	50.76	-	48.25	48.92	50.33	-	47.02	47.69	49.10	-	44.89	45.56	46.97	-	42.29	42.96	44.38	-	39.92	40.59	42.00	-
1800	S/T	0.72	0.64	0.50	-	0.73	0.65	0.51	-	0.75	0.67	0.53	-	1.00	0.69	0.55	-	1.00	0.72	0.58	-	1.00	0.77	0.63	-
	ΔT	12.06	10.82	8.49	-	12.02	10.78	8.46	-	12.20	10.96	8.64	-	12.01	10.77	8.45	-	11.85	10.60	8.28	-	12.62	11.38	9.06	-
	kW	3.01	3.01	3.00	-	3.37	3.37	3.36	-	3.77	3.77	3.76	-	4.21	4.21	4.20	-	4.70	4.69	4.69	-	5.27	5.27	5.26	-
	Amps	10.88	10.86	10.84	-	12.45	12.44	12.41	-	14.20	14.19	14.16	-	16.10	16.09	16.06	-	18.22	18.21	18.18	-	20.70	20.69	20.67	-
	Hi PR	275.38	276.55	278.46	-	318.12	319.29	321.20	-	362.89	364.07	365.97	-	411.11	412.28	414.19	-	463.09	464.26	466.17	-	518.56	519.74	521.64	-
Lo PR	127.94	129.47	132.63	-	135.49	137.02	140.18	-	142.10	143.63	146.79	-	147.69	149.22	152.38	-	153.18	154.71	157.87	-	160.05	161.58	164.74	-	

		OUTDOOR AMBIENT TEMPERATURE																							
		65°F				75°F				85°F				95°F											
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
1400	MBh	47.34	48.00	49.42	51.58	46.91	47.58	48.99	51.15	45.68	46.35	47.76	49.92	43.55	44.22	45.63	47.79	40.95	41.62	43.04	45.19	38.58	39.25	40.66	42.82
	S/T	0.76	0.68	0.54	0.39	0.76	0.68	0.54	0.40	1.00	0.71	0.57	0.42	1.00	0.73	0.59	0.44	1.00	0.75	0.61	0.47	1.00	1.00	0.67	0.52
	ΔT	16.18	14.93	12.61	10.21	16.14	14.90	12.58	10.17	16.32	15.07	12.75	10.35	16.13	14.89	12.56	10.16	15.96	14.72	12.40	9.99	16.74	15.50	13.18	10.77
	kW	2.97	2.97	2.96	2.99	3.33	3.33	3.32	3.35	3.74	3.73	3.73	3.76	4.17	4.17	4.16	4.19	4.66	4.66	4.65	4.68	5.23	5.23	5.22	5.25
	Amps	10.72	10.70	10.68	10.80	12.29	12.28	12.25	12.37	14.04	14.03	14.00	14.12	15.94	15.93	15.90	16.02	18.06	18.05	18.02	18.14	20.54	20.53	20.51	20.63
75	Hi PR	271.09	272.26	274.16	278.89	313.82	315.00	316.90	321.62	358.60	359.77	361.68	366.40	406.81	407.99	409.89	414.61	458.79	459.97	461.87	466.59	514.27	515.44	517.35	522.07
	Lo PR	124.12	125.65	128.81	134.10	131.67	133.20	136.36	141.65	138.28	139.82	142.98	148.26	143.87	145.41	148.57	153.85	149.36	150.89	154.05	159.34	156.23	157.76	160.92	166.21
	MBh	47.96	48.63	50.04	52.20	47.53	48.20	49.62	51.77	46.30	46.97	48.38	50.54	44.17	44.84	46.25	48.41	41.58	42.24	43.66	45.82	39.20	39.87	41.29	43.44
	S/T	0.82	0.74	0.60	0.45	1.00	0.74	0.61	0.46	1.00	0.77	0.63	0.48	1.00	0.79	0.65	0.50	1.00	0.81	0.67	0.53	1.00	1.00	0.73	0.58
	ΔT	15.42	14.18	11.86	9.46	15.39	14.15	11.83	9.42	15.56	14.32	12.00	9.60	15.38	14.13	11.81	9.41	15.21	13.97	11.65	9.24	15.99	14.75	12.43	10.02
1600	kW	2.99	2.99	2.98	3.01	3.35	3.35	3.34	3.37	3.76	3.75	3.75	3.77	4.19	4.19	4.18	4.21	4.68	4.68	4.67	4.70	5.25	5.25	5.24	5.27
	Amps	10.80	10.79	10.76	10.88	12.37	12.36	12.33	12.45	14.12	14.11	14.08	14.20	16.02	16.01	15.98	16.10	18.14	18.13	18.10	18.22	20.63	20.61	20.59	20.71
	Hi PR	273.39	274.56	276.47	281.19	316.13	317.30	319.20	323.93	360.90	362.08	363.98	368.70	409.11	410.29	412.19	416.91	461.10	462.27	464.17	468.90	516.57	517.74	519.65	524.37
	Lo PR	125.95	127.48	130.64	135.92	133.50	135.03	138.19	143.47	140.11	141.64	144.80	150.09	145.70	147.23	150.39	155.68	151.19	152.72	155.88	161.16	158.06	159.59	162.75	168.03
	MBh	48.70	49.37	50.79	52.94	48.28	48.95	50.36	52.52	47.05	47.71	49.13	51.29	44.92	45.59	47.00	49.16	42.32	42.99	44.40	46.56	39.95	40.62	42.03	44.19
1800	S/T	0.85	0.77	0.63	0.49	1.00	0.78	0.64	0.49	1.00	0.81	0.67	0.52	1.00	0.83	0.69	0.54	1.00	1.00	0.71	0.56	1.00	1.00	0.76	0.61
	ΔT	14.79	13.55	11.23	8.82	14.76	13.51	11.19	8.79	14.93	13.69	11.37	8.96	14.75	13.50	11.18	8.78	14.58	13.34	11.01	8.61	15.36	14.11	11.79	9.39
	kW	3.01	3.00	3.00	3.03	3.37	3.36	3.36	3.39	3.77	3.77	3.76	3.79	4.21	4.20	4.20	4.23	4.69	4.69	4.69	4.71	5.27	5.26	5.26	5.29
	Amps	10.87	10.85	10.83	10.95	12.44	12.43	12.40	12.52	14.19	14.18	14.15	14.27	16.09	16.08	16.05	16.17	18.21	18.20	18.17	18.29	20.69	20.68	20.66	20.78
	Hi PR	275.62	276.79	278.70	283.42	318.36	319.53	321.44	326.16	363.13	364.31	366.21	370.93	411.35	412.52	414.43	419.15	463.33	464.50	466.41	471.13	518.80	519.98	521.88	526.60
Lo PR	127.97	129.50	132.66	137.94	135.52	137.05	140.21	145.50	142.13	143.66	146.82	152.11	147.72	149.25	152.41	157.70	153.21	154.74	157.90	163.19	160.08	161.61	164.77	170.06	

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												105°F												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	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	41.2	41.9	43.3	45.4	38.8	39.5	40.9	43.1	41.2	41.9	43.3	45.4	38.8	39.5	40.9	43.1
	S/T	1.00	0.81	0.67	0.52	1.00	0.81	0.67	0.53	1.00	0.84	0.70	0.55	1.00	1.00	0.72	0.57	1.00	1.00	0.74	0.59	1.00	1.00	0.79	0.65	1.00	1.00	0.74	0.59	1.00	1.00	0.79	0.65	1.00	1.00	0.74	0.59	1.00	1.00	0.79	0.65
	ΔT	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	18.71	17.47	15.15	12.75	19.49	18.25	15.93	13.52	18.71	17.47	15.15	12.75	19.49	18.25	15.93	13.52
	kW	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	5.23	5.23	5.23	5.25	4.66	4.66	4.66	4.65	5.23	5.23	5.23	5.25	4.66	4.66	4.66	4.65	5.23	5.23	5.23	5.25
	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	18.07	18.05	18.03	18.15	20.55	20.54	20.51	20.63	18.07	18.05	18.03	18.15	20.55	20.54	20.51	20.63
	Hi PR	272	273	275	279	314	315	317	322	359	360	362	367	407	408	410	415	459	460	462	467	515	516	518	523	459	460	462	467	515	516	518	523	459	460	462	467	515	516	518	523
	Lo PR	125	126	129	135	132	134	137	142	139	140	144	149	144	144	144	149	150	151	155	160	157	158	161	167	150	151	155	160	157	158	161	167	150	151	155	160	157	158	161	167
	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	41.8	42.5	43.9	46.1	39.4	40.1	41.5	43.7	41.8	42.5	43.9	46.1	39.4	40.1	41.5	43.7
	S/T	1.00	0.87	0.73	0.58	1.00	0.87	0.73	0.59	1.00	0.90	0.76	0.61	1.00	1.00	0.78	0.63	1.00	1.00	0.80	0.66	1.00	1.00	0.86	0.71	1.00	1.00	0.80	0.66	1.00	1.00	0.86	0.71	1.00	1.00	0.80	0.66	1.00	1.00	0.86	0.71
	ΔT	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	17.96	16.72	14.40	11.99	18.74	17.50	15.18	12.77	17.96	16.72	14.40	11.99	18.74	17.50	15.18	12.77
kW	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	5.25	5.25	5.24	5.27	4.68	4.68	4.68	4.67	5.25	5.25	5.24	5.27	4.68	4.68	4.68	4.67	5.25	5.25	5.24	5.27	
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	18.15	18.14	18.11	18.23	20.63	20.62	20.60	20.72	18.15	18.14	18.11	18.23	20.63	20.62	20.60	20.72	
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	462	463	465	469	517	518	520	525	462	463	465	469	517	518	520	525	
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	152	153	156	162	159	160	163	169	152	153	156	162	159	160	163	169	
MBh	48.9	49.6	51.0	53.2	48.5	49.2	50.6	52.8	47.3	48.0	49.4	51.5	45.2	45.8	47.2	49.4	42.6	43.2	44.6	46.8	40.2	40.9	42.3	44.4	42.6	43.2	44.6	46.8	40.2	40.9	42.3	44.4	42.6	43.2	44.6	46.8	40.2	40.9	42.3	44.4	
S/T	1.00	0.90	0.76	0.62	1.00	0.91	0.77	0.62	1.00	0.93	0.80	0.65	1.00	1.00	0.82	0.67	1.00	1.00	0.84	0.69	1.00	1.00	0.89	0.74	1.00	1.00	0.84	0.69	1.00	1.00	0.89	0.74	1.00	1.00	0.84	0.69	1.00	1.00	0.89	0.74	
ΔT	17.54	16.30	13.98	11.57	17.51	16.27	13.95	11.54	17.68	16.44	14.12	11.72	17.50	16.25	13.93	11.53	17.33	16.09	13.77	11.36	18.11	16.87	14.55	12.14	17.33	16.09	13.77	11.36	18.11	16.87	14.55	12.14	17.33	16.09	13.77	11.36	18.11	16.87	14.55	12.14	
kW	3.01	3.01	3.00	3.03	3.37	3.37	3.36	3.39	3.77	3.77	3.76	3.79	4.21	4.21	4.20	4.23	4.70	4.69	4.69	4.69	5.27	5.27	5.26	5.29	4.70	4.69	4.69	4.69	5.27	5.27	5.26	5.29	4.70	4.69	4.69	4.69	5.27	5.27	5.26	5.29	
Amps	10.88	10.86	10.84	10.96	12.45	12.43	12.41	12.53	14.20	14.19	14.16	14.28	16.10	16.08	16.06	16.18	18.22	18.20	18.18	18.30	20.70	20.69	20.66	20.78	18.22	18.20	18.18	18.30	20.70	20.69	20.66	20.78	18.22	18.20	18.18	18.30	20.70	20.69	20.66	20.78	
Hi PR	276	277	279	284	319	320	322	327	364	365	367	371	412	413	415	420	464	465	467	472	519	520	522	527	464	465	467	472	519	520	522	527	464	465	467	472	519	520	522	527	
Lo PR	129	130	133	138	136	138	141	146	143	144	147	153	148	150	153	158	154	155	158	164	161	162	165	171	154	155	158	164	161	162	165	171	154	155	158	164	161	162	165	171	
85	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	42.0	42.7	44.1	46.2	39.6	40.3	41.7	43.9	42.0	42.7	44.1	46.2	39.6	40.3	41.7	43.9
	S/T	1.00	0.91	0.77	0.62	1.00	1.00	0.78	0.63	1.00	1.00	0.80	0.66	1.00	1.00	0.82	0.68	1.00	1.00	0.85	0.70	1.00	1.00	0.81	0.75	1.00	1.00	0.85	0.70	1.00	1.00	0.81	0.75	1.00	1.00	0.85	0.70	1.00	1.00	0.81	0.75
	ΔT	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	21.15	19.91	17.59	15.19	21.93	20.69	18.37	15.96	21.15	19.91	17.59	15.19	21.93	20.69	18.37	15.96
	kW	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	4.66	5.24	5.24	5.23	5.26	4.67	4.67	4.66	4.66	5.24	5.24	5.23	5.26	4.67	4.67	4.66	4.66	5.24	5.24	5.23	5.26
	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	18.10	18.08	18.06	18.18	20.58	20.57	20.54	20.66	18.10	18.08	18.06	18.18	20.58	20.57	20.54	20.66
	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	461	462	464	468	516	517	519	524	461	462	464	468	516	517	519	524
	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	152	153	156	162	159	160	163	169	152	153	156	162	159	160	163	169
	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	42.6	43.3	44.7	46.9	40.2	40.9	42.3	44.5	42.6	43.3	44.7	46.9	40.2	40.9	42.3	44.5
	S/T	1.00	0.97	0.83	0.69	1.00	1.00	0.84	0.69	1.00	1.00	0.86	0.72	1.00	1.00	0.88	0.74	1.00	1.00	0.91	0.76	1.00	1.00	0.81	0.81	1.00	1.00	0.91	0.76	1.00	1.00	0.81	0.81	1.00	1.00	0.91	0.76	1.00	1.00	0.81	0.81
	ΔT	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	20.40	19.16	16.84	14.44	21.18	19.94	17.62	15.21	20.40	19.16	16.84	14.44	21.18	19.94	17.62	15.21
kW	3.00	3.00	2.99	3.02	3.36	3.36	3.35	3.38	3.7																																

EXPANDED COOLING DATA — GPHM54841** (LOW STAGE)

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	
70	1006	MBh	34.0	34.5	35.5	-	33.7	34.2	35.2	-	32.8	33.3	34.3	-	31.3	31.8	32.8	-	29.4	29.9	30.9	-	27.7	28.2	29.2	-
		S/T	0.64	0.56	0.42	-	0.65	0.57	0.42	-	0.67	0.59	0.45	-	1.00	0.61	0.47	-	1.00	0.64	0.49	-	1.00	0.69	0.55	-
		ΔT	12.97	11.77	9.53	-	12.94	11.74	9.50	-	13.11	11.91	9.67	-	12.93	11.73	9.49	-	12.77	11.57	9.33	-	13.52	12.32	10.08	-
		KW	1.87	1.87	1.87	-	2.10	2.10	2.09	-	2.35	2.35	2.35	-	2.63	2.62	2.62	-	2.93	2.93	2.93	-	3.29	3.29	3.29	-
		Amps	6.75	6.74	6.72	-	7.74	7.73	7.71	-	8.84	8.83	8.81	-	10.03	10.02	10.01	-	11.36	11.36	11.34	-	12.93	12.92	12.90	-
	1150	Hi PR	259	260	262	-	300	301	303	-	343	344	346	-	389	390	392	-	438	440	441	-	491	493	494	-
		Lo PR	128	129	132	-	135	137	140	-	142	144	147	-	148	149	153	-	154	155	158	-	161	162	165	-
		MBh	34.5	34.9	36.0	-	34.2	34.6	35.7	-	33.3	33.7	34.8	-	31.7	32.2	33.2	-	29.9	30.4	31.4	-	28.2	28.6	29.7	-
		S/T	0.70	0.62	0.48	-	0.71	0.63	0.49	-	1.00	0.66	0.51	-	1.00	0.68	0.53	-	1.00	0.70	0.56	-	1.00	1.00	0.61	-
		ΔT	12.25	11.05	8.81	-	12.21	11.01	8.77	-	12.38	11.18	8.94	-	12.20	11.00	8.76	-	12.04	10.84	8.60	-	12.79	11.59	9.35	-
1294	KW	1.88	1.88	1.88	-	2.11	2.11	2.10	-	2.36	2.36	2.36	-	2.64	2.64	2.63	-	2.94	2.94	2.94	-	3.30	3.30	3.30	-	
	Amps	6.80	6.79	6.77	-	7.79	7.78	7.76	-	8.89	8.88	8.86	-	10.08	10.07	10.06	-	11.42	11.41	11.39	-	12.98	12.97	12.96	-	
	Hi PR	261	262	264	-	302	303	305	-	345	346	348	-	391	392	394	-	441	442	444	-	494	495	497	-	
	Lo PR	129	131	134	-	137	139	142	-	144	146	149	-	150	151	155	-	155	157	160	-	162	164	167	-	
	MBh	35.0	35.5	36.5	-	34.7	35.2	36.2	-	33.8	34.3	35.3	-	32.3	32.8	33.8	-	30.4	30.9	31.9	-	28.7	29.2	30.2	-	

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		
75	1006	MBh	34.0	34.5	35.5	37.1	33.7	34.2	35.2	36.8	32.8	33.3	34.3	35.9	31.3	31.8	32.8	34.4	29.4	29.9	30.9	32.5	27.7	28.2	29.2	30.8	
		S/T	0.78	0.70	0.55	0.40	1.00	0.70	0.56	0.41	0.82	1.00	0.73	0.59	0.43	1.00	0.75	0.61	0.45	1.00	1.00	0.63	0.48	1.00	1.00	0.68	0.53
		ΔT	15.61	14.41	12.17	9.85	15.58	14.38	12.14	9.82	11.44	15.74	14.55	12.31	9.98	15.56	14.36	12.12	9.80	15.40	14.20	11.96	9.64	16.15	14.96	12.72	10.39
		KW	1.87	1.87	1.86	1.88	2.10	2.09	2.09	2.11	2.11	2.35	2.35	2.34	2.36	2.62	2.62	2.62	2.64	2.93	2.93	2.93	2.94	3.29	3.29	3.29	3.30
		Amps	6.74	6.73	6.72	6.79	7.73	7.72	7.70	7.78	7.78	8.83	8.82	8.81	8.88	10.03	10.02	10.00	10.08	11.36	11.35	11.33	11.41	12.92	12.91	12.90	12.97
	1150	Hi PR	259	260	262	267	300	301	303	307	343	344	346	350	389	390	392	396	439	440	442	446	492	493	495	499	
		Lo PR	128	129	132	138	135	137	140	146	142	144	147	152	148	149	153	158	154	155	158	164	161	162	165	171	
		MBh	34.48	35.0	36.0	37.5	34.2	34.7	35.7	37.2	37.2	33.3	33.8	34.8	36.3	31.8	32.2	33.3	34.8	29.9	30.4	31.4	32.9	28.2	28.7	29.7	31.2
		S/T	0.84	0.76	0.62	0.46	1.00	0.77	0.62	0.47	0.99	1.00	0.79	0.65	0.50	1.00	0.81	0.67	0.52	1.00	1.00	0.69	0.54	1.00	1.00	0.75	0.60
		ΔT	14.88	13.68	11.44	9.12	14.85	13.65	11.41	9.09	10.80	15.02	13.82	11.58	9.26	14.84	13.64	11.40	9.08	14.68	13.48	11.24	8.92	15.43	14.23	11.99	9.67
1294	KW	1.88	1.88	1.88	1.89	2.11	2.11	2.10	2.12	2.12	2.36	2.36	2.37	2.37	2.64	2.63	2.63	2.65	2.94	2.94	2.94	2.95	3.30	3.30	3.30	3.31	
	Amps	6.79	6.78	6.77	6.84	7.78	7.77	7.76	7.83	7.83	8.88	8.88	8.86	8.93	10.08	10.07	10.05	10.13	11.41	11.40	11.38	11.46	12.97	12.97	12.95	13.02	
	Hi PR	261	262	264	269	302	303	305	310	310	345	346	348	352	391	392	394	399	441	442	444	448	494	495	497	501	
	Lo PR	129	131	134	140	137	139	142	147	147	144	146	149	154	150	151	155	160	155	157	160	166	162	164	167	173	
	MBh	35.0	35.5	36.5	38.1	34.7	35.2	36.2	37.8	37.8	33.8	34.3	35.3	36.9	32.3	32.8	33.8	35.3	30.4	30.9	31.9	33.5	28.7	29.2	30.2	31.8	

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 connector 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	34.2	34.7	35.7	37.3	33.9	34.4	35.4	37.0	33.0	33.5	34.5	36.1	31.5	32.0	33.0	34.5	29.6	30.1	31.1	32.7	27.9	28.4	29.4	31.0
	S/T	1.00	0.83	0.68	0.5	1.00	0.83	0.69	0.5	1.00	0.86	0.72	0.6	1.00	1.00	0.74	0.6	1.00	1.00	0.76	0.6	1.00	1.00	0.82	0.7
	ΔT	18.26	17.07	14.83	12.5	18.23	17.03	14.79	12.5	18.40	17.20	14.96	12.6	18.22	17.02	14.78	12.5	18.06	16.86	14.62	12.3	18.81	17.61	15.37	13.1
	kW	1.87	1.87	1.86	1.88	2.10	2.10	2.09	2.11	2.35	2.35	2.35	2.36	2.63	2.62	2.62	2.64	2.93	2.93	2.93	2.94	3.29	3.29	3.29	3.30
	Amps	6.75	6.74	6.72	6.80	7.73	7.73	7.71	7.79	8.84	8.83	8.81	8.89	10.03	10.02	10.01	10.08	11.36	11.36	11.34	11.41	12.93	12.92	12.90	12.98
	Hi PR	260	261	263	267	300	302	303	308	343	344	346	351	389	391	392	397	439	440	442	447	492	493	495	500
	Lo PR	128	130	132	138	136	137	141	146	143	144	148	153	148	150	153	159	154	156	159	164	161	163	166	171
	MBh	34.7	35.1	36.2	37.7	34.4	34.8	35.8	37.4	33.5	33.9	35.0	36.5	31.9	32.4	33.4	35.0	30.1	30.5	31.6	33.1	28.4	28.8	29.9	31.4
	S/T	1.00	0.89	0.75	0.6	1.00	0.90	0.75	0.6	1.00	1.00	0.78	0.6	1.00	1.00	0.80	0.7	1.00	1.00	0.82	0.7	1.00	1.00	1.00	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
kW	1.88	1.88	1.88	1.89	2.11	2.11	2.10	2.12	2.36	2.36	2.36	2.37	2.64	2.64	2.63	2.65	2.94	2.94	2.94	2.96	3.30	3.30	3.30	3.32	
Amps	6.80	6.79	6.77	6.85	7.79	7.78	7.76	7.84	8.89	8.88	8.86	8.94	10.08	10.07	10.06	10.13	11.41	11.41	11.39	11.47	12.98	12.97	12.95	13.03	
Hi PR	262	263	265	269	303	304	306	310	345	347	348	353	392	393	395	399	441	442	444	449	494	495	497	502	
Lo PR	130	132	135	140	138	139	143	148	145	146	149	155	150	152	155	161	156	158	161	166	163	165	168	173	
MBh	35.2	35.7	36.7	38.2	34.9	35.4	36.4	37.9	34.0	34.5	35.5	37.1	32.5	33.0	34.0	35.5	30.6	31.1	32.1	33.7	28.9	29.4	30.4	31.9	
S/T	1.00	0.93	0.78	0.6	1.00	0.93	0.79	0.6	1.00	1.00	0.82	0.7	1.00	1.00	0.84	0.7	1.00	1.00	0.86	0.7	1.00	1.00	1.00	0.8	
ΔT	16.93	15.73	13.49	11.2	16.90	15.70	13.46	11.1	17.07	15.87	13.63	11.3	16.88	15.69	13.45	11.1	16.72	15.52	13.28	11.0	17.48	16.28	14.04	11.7	
kW	1.89	1.89	1.89	1.90	2.12	2.12	2.11	2.13	2.37	2.37	2.37	2.38	2.65	2.65	2.64	2.66	2.95	2.95	2.95	2.97	3.31	3.31	3.31	3.33	
Amps	6.84	6.83	6.82	6.89	7.83	7.82	7.80	7.88	8.93	8.92	8.91	8.98	10.12	10.12	10.10	10.18	11.46	11.45	11.43	11.51	13.02	13.01	13.00	13.07	
Hi PR	264	265	267	271	305	306	308	312	348	349	351	355	394	395	397	401	443	445	446	451	496	498	499	504	
Lo PR	132	134	137	142	140	141	145	150	147	148	151	157	152	154	157	163	158	160	163	168	165	167	170	175	
85	MBh	34.8	35.3	36.3	37.8	34.5	35.0	36.0	37.5	33.6	34.1	35.1	36.6	32.1	32.5	33.6	35.1	30.2	30.7	31.7	33.2	28.5	29.0	30.0	31.5
	S/T	1.00	0.93	0.79	0.6	1.00	1.00	0.80	0.6	1.00	1.00	0.82	0.7	1.00	1.00	0.84	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.8
	ΔT	20.62	19.42	17.18	14.9	20.59	19.39	17.15	14.8	20.76	19.56	17.32	15.0	20.57	19.38	17.14	14.8	20.41	19.21	16.98	14.7	21.17	19.97	17.73	15.4
	kW	1.87	1.87	1.87	1.89	2.10	2.10	2.10	2.11	2.36	2.35	2.35	2.37	2.63	2.63	2.62	2.64	2.94	2.94	2.93	2.95	3.30	3.29	3.29	3.31
	Amps	6.77	6.76	6.74	6.82	7.75	7.75	7.73	7.80	8.86	8.85	8.83	8.91	10.05	10.04	10.02	10.10	11.38	11.37	11.36	11.43	12.95	12.94	12.92	13.00
	Hi PR	261	262	264	268	302	303	305	309	345	346	347	352	391	392	394	398	440	441	443	448	493	494	496	501
	Lo PR	130	132	135	140	138	139	143	148	145	146	149	155	150	152	155	161	156	158	161	166	163	165	168	173
	MBh	35.2	35.7	36.7	38.3	34.9	35.4	36.4	38.0	34.0	34.5	35.5	37.1	32.5	33.0	34.0	35.6	30.6	31.1	32.1	33.7	28.9	29.4	30.4	32.0
	S/T	1.00	1.00	0.85	0.7	1.00	1.00	0.86	0.7	1.00	1.00	0.89	0.7	1.00	1.00	0.91	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	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
kW	1.89	1.88	1.88	1.90	2.11	2.11	2.11	2.13	2.37	2.37	2.36	2.38	2.64	2.64	2.64	2.65	2.95	2.95	2.94	2.96	3.31	3.31	3.30	3.32	
Amps	6.82	6.81	6.79	6.87	7.80	7.80	7.78	7.86	8.91	8.90	8.88	8.96	10.10	10.09	10.08	10.15	11.43	11.43	11.41	11.48	13.00	12.99	12.97	13.05	
Hi PR	263	264	266	271	304	305	307	311	347	348	350	354	393	394	396	400	443	444	445	450	496	497	498	503	
Lo PR	132	134	137	142	140	141	145	150	147	148	151	157	152	154	157	163	158	159	163	168	165	167	170	175	
MBh	35.8	36.2	37.3	38.8	35.5	35.9	37.0	38.5	34.6	35.1	36.1	37.6	33.0	33.5	34.5	36.1	31.2	31.7	32.7	34.2	29.5	30.0	31.0	32.5	
S/T	1.00	1.00	0.89	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.92	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.9	
ΔT	19.29	18.09	15.85	13.5	19.25	18.05	15.81	13.5	19.42	18.22	15.98	13.7	19.24	18.04	15.80	13.5	19.08	17.88	15.64	13.3	19.83	18.63	16.39	14.1	
kW	1.90	1.89	1.89	1.91	2.12	2.12	2.12	2.14	2.38	2.38	2.37	2.39	2.65	2.65	2.65	2.66	2.96	2.96	2.95	2.97	3.32	3.32	3.31	3.33	
Amps	6.86	6.85	6.83	6.91	7.85	7.84	7.82	7.90	8.95	8.94	8.93	9.00	10.14	10.14	10.12	10.19	11.48	11.47	11.45	11.53	13.04	13.03	13.02	13.09	
Hi PR	265	266	268	273	306	307	309	314	349	350	352	356	395	396	398	402	445	446	448	452	498	499	501	505	
Lo PR	134	136	139	144	142	143	147	152	149	150	153	159	154	156	159	165	160	162	165	170	167	169	172	177	

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 — GPHM56041** (HIGH STAGE)

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								
1750	MBh	57.99	58.81	60.54	-	57.47	58.29	60.02	-	55.96	56.78	58.51	-	53.35	54.17	55.90	-	50.17	50.99	52.72	-	47.26	48.08	49.81	-												
	S/T	0.63	0.55	0.41	-	0.63	0.55	0.41	-	0.66	0.58	0.44	-	0.68	0.60	0.46	-	1.00	0.62	0.48	-	1.00	0.68	0.54	-												
	ΔT	10.85	9.84	7.97	-	10.82	9.82	7.94	-	10.96	9.96	8.08	-	10.81	9.81	7.93	-	10.67	9.67	7.80	-	11.30	10.30	8.43	-												
	KW	3.69	3.69	3.68	-	4.12	4.12	4.11	-	4.60	4.60	4.59	-	5.12	5.11	5.11	-	5.69	5.69	5.68	-	6.37	6.37	6.36	-												
	Amps	13.02	13.00	12.97	-	14.88	14.86	14.83	-	16.95	16.94	16.91	-	19.20	19.18	19.15	-	21.71	21.70	21.66	-	24.65	24.64	24.61	-												
2000	Hi PR	264.37	265.52	267.38	-	306.09	307.23	309.09	-	349.79	350.94	352.80	-	396.85	398.00	399.86	-	447.59	448.74	450.60	-	501.74	502.89	504.75	-												
	Lo PR	121.67	123.17	126.27	-	129.07	130.58	133.68	-	135.56	137.06	140.16	-	141.04	142.54	145.64	-	146.42	147.92	151.02	-	153.16	154.66	157.76	-												
	MBh	58.75	59.57	61.30	-	58.23	59.05	60.79	-	56.72	57.54	59.27	-	54.11	54.93	56.67	-	50.93	51.75	53.48	-	48.02	48.84	50.57	-												
	S/T	0.69	0.61	0.47	-	0.69	0.62	0.48	-	0.72	0.64	0.50	-	0.74	0.66	0.52	-	1.00	0.69	0.54	-	1.00	0.74	0.60	-												
	ΔT	10.24	9.24	7.36	-	10.21	9.21	7.34	-	10.35	9.35	7.48	-	10.20	9.20	7.33	-	10.07	9.07	7.19	-	10.70	9.69	7.82	-												
2250	KW	3.72	3.71	3.71	-	4.14	4.14	4.13	-	4.62	4.62	4.61	-	5.14	5.14	5.13	-	5.72	5.71	5.71	-	6.39	6.39	6.38	-												
	Amps	13.11	13.10	13.07	-	14.97	14.96	14.93	-	17.05	17.03	17.00	-	19.30	19.28	19.25	-	21.81	21.79	21.76	-	24.75	24.74	24.70	-												
	Hi PR	266.62	267.76	269.62	-	308.33	309.48	311.34	-	352.04	353.19	355.04	-	399.10	400.25	402.10	-	449.84	450.98	452.84	-	503.99	505.13	506.99	-												
	Lo PR	123.46	124.96	128.06	-	130.86	132.37	135.47	-	137.35	138.85	141.95	-	142.83	144.33	147.43	-	148.21	149.71	152.81	-	154.95	156.45	159.55	-												
	MBh	59.67	60.49	62.22	-	59.15	59.97	61.70	-	57.63	58.45	60.19	-	55.03	55.85	57.58	-	51.84	52.66	54.40	-	48.94	49.76	51.49	-												

1750	MBh	58.02	58.84	60.58	63.22	57.51	58.32	60.06	62.70	55.99	56.81	58.54	61.19	53.39	54.21	55.94	58.58	50.20	51.02	52.75	55.40	47.30	48.11	49.85	52.49
	S/T	0.76	0.68	0.54	0.39	0.77	0.69	0.55	0.40	1.00	0.71	0.57	0.43	1.00	0.73	0.59	0.45	1.00	0.76	0.62	0.47	1.00	1.00	0.67	0.52
	ΔT	13.05	12.05	10.18	8.24	13.02	12.02	10.15	8.21	13.17	12.16	10.29	8.35	13.01	12.01	10.14	8.20	12.88	11.88	10.00	8.06	13.51	12.50	10.63	8.69
	KW	3.69	3.69	3.68	3.71	4.12	4.12	4.11	4.14	4.60	4.59	4.59	4.62	5.11	5.11	5.10	5.14	5.69	5.69	5.68	5.71	6.37	6.37	6.36	6.39
	Amps	13.01	12.99	12.96	13.10	14.86	14.85	14.82	14.96	16.94	16.93	16.89	17.04	19.19	19.17	19.14	19.28	21.70	21.68	21.65	21.79	24.64	24.63	24.60	24.74
2000	Hi PR	264.60	265.75	267.61	272.22	306.32	307.47	309.33	313.94	350.03	351.17	353.03	357.64	397.09	398.23	400.09	404.70	447.83	448.97	450.83	455.44	501.97	503.12	504.98	509.59
	Lo PR	121.70	123.20	126.30	131.48	129.10	130.61	133.70	138.89	135.59	137.09	140.19	145.37	141.07	142.57	145.67	150.85	146.45	147.95	151.05	156.23	153.18	154.69	157.79	162.97
	MBh	58.79	59.61	61.34	63.98	58.27	59.09	60.82	63.47	56.75	57.57	59.30	61.95	54.15	54.97	56.70	59.35	50.96	51.78	53.52	56.16	48.06	48.88	50.61	53.25
	S/T	0.82	0.74	0.60	0.46	0.83	0.75	0.61	0.46	1.00	0.78	0.64	0.49	1.00	0.80	0.66	0.51	1.00	0.82	0.68	0.53	1.00	1.00	0.73	0.58
	ΔT	12.45	11.44	9.57	7.63	12.42	11.42	9.54	7.60	12.56	11.56	9.68	7.74	12.41	11.40	9.53	7.59	12.27	11.27	9.40	7.46	12.90	11.90	10.03	8.09
2250	KW	3.71	3.71	3.70	3.74	4.14	4.14	4.13	4.16	4.62	4.62	4.61	4.64	5.14	5.13	5.13	5.16	5.71	5.71	5.70	5.74	6.39	6.39	6.38	6.41
	Amps	13.10	13.09	13.06	13.20	14.96	14.95	14.91	15.06	17.04	17.02	16.99	17.13	19.28	19.27	19.24	19.38	21.79	21.78	21.75	21.89	24.74	24.72	24.69	24.83
	Hi PR	266.85	268.00	269.86	274.46	308.57	309.71	311.57	316.18	352.22	353.42	355.28	359.89	399.33	400.48	402.34	406.95	450.07	451.22	453.08	457.69	504.22	505.37	507.23	511.83
	Lo PR	123.49	124.99	128.09	133.27	130.89	132.40	135.49	140.68	137.38	138.88	141.98	147.16	142.86	144.36	147.46	152.64	148.24	149.74	152.84	158.02	154.97	156.48	159.58	164.76
	MBh	59.70	60.52	62.25	64.90	59.18	60.00	61.73	64.38	57.67	58.49	60.22	62.87	55.06	55.88	57.61	60.26	51.88	52.70	54.43	57.08	48.97	49.79	51.52	54.17
75	S/T	0.86	0.78	0.64	0.49	0.86	0.78	0.64	0.50	1.00	0.81	0.67	0.52	1.00	0.83	0.69	0.54	1.00	0.85	0.71	0.57	1.00	1.00	0.77	0.62
	ΔT	11.94	10.93	9.06	7.12	11.91	10.91	9.03	7.09	12.05	11.05	9.17	7.23	11.90	10.89	9.02	7.08	11.76	10.76	8.89	6.95	12.39	11.39	9.52	7.58
	KW	3.73	3.73	3.72	3.75	4.16	4.16	4.15	4.18	4.64	4.63	4.63	4.66	5.15	5.15	5.14	5.18	5.73	5.73	5.72	5.75	6.41	6.41	6.40	6.43
	Amps	13.18	13.17	13.14	13.28	15.04	15.03	15.00	15.14	17.12	17.10	17.07	17.21	19.36	19.35	19.32	19.46	21.87	21.86	21.83	21.97	24.82	24.81	24.77	24.92
	Hi PR	269.03	270.18	272.04	276.64	310.75	311.89	313.75	318.36	354.45	355.60	357.46	362.07	401.51	402.66	404.52	409.13	452.25	453.40	455.26	459.86	506.40	507.55	509.40	514.01
Lo PR	125.47	126.98	130.07	135.25	132.87	134.38	137.48	142.66	139.36	140.86	143.96	149.14	144.84	146.34	149.44	154.62	150.22	151.72	154.82	160.00	156.96	158.46	161.56	166.74	

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		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		
2000	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	0.94	0.80	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	
	2250	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		
2250	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	0.90	0.76	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 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	
70	1181	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	1181	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 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												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	3.21	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	4.04	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

GPHM52441

HIGH STAGE

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

GPHM52441

LOW STAGE

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

GPHM53041

HIGH STAGE

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

GPHM53041

LOW STAGE

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

GPHM53641

HIGH STAGE

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

GPHM53641

LOW STAGE

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

Notes

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

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

GPHM54241

HIGH STAGE

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

GPHM54241

LOW STAGE

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

GPHM54841

HIGH STAGE

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

GPHM54841

LOW STAGE

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

GPHM56041

HIGH STAGE

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

GPHM56041

LOW STAGE

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

Notes

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

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

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

GPHM52441**

SETUP	MOTOR TAP	VOLTS		STATIC							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Horizontal Position	T1	230	CFM Watts	726 56	662 64	576 73	486 79	415 84	346 89	284 93	248 97
	T2 / T3	230	CFM Watts	1151 157	1099 164	1047 173	993 180	936 188	865 196	775 204	704 209
	T4 / T5	230	CFM Watts	1347 239	1315 256	1256 265	1194 271	1152 282	1096 286	1051 293	972 297
Downshot Position	T1	230	683 Watts	622 58	542 66	457 75	390 81	326 86	267 91	233 96	233 100
	T2/T3	230	CFM Watts	1082 160	1033 168	984 177	933 185	880 193	813 201	729 209	662 214
	T4/T5	230	CFM Watts	1266 245	1236 262	1181 272	1122 278	1083 289	1030 293	988 300	914 304

GPHM53041**

SETUP	MOTOR TAP	VOLTS		STATIC							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Horizontal Position	T1	230	CFM Watts	866 83	805 91	743 98	666 106	578 112	508 119	435 124	359 128
	T2 / T3	230	CFM Watts	1321 232	1276 240	1232 249	1170 255	1116 262	1065 269	1007 276	948 283
	T4 / T5	230	CFM Watts	1440 290	1418 306	1364 312	1307 321	1265 326	1219 332	1168 348	1094 353
Downshot Position	T1	230	683 Watts	814 85	757 93	699 101	626 108	543 115	478 122	408 128	338 132
	T2/T3	230	CFM Watts	1242 238	1200 246	1158 255	1100 261	1049 268	1001 276	946 283	891 290
	T4/T5	230	CFM Watts	1354 297	1333 314	1282 320	1229 329	1189 334	1146 340	1098 357	1028 362

GPHM53641**

SETUP	MOTOR TAP	VOLTS		STATIC							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Horizontal Position	T1	230	CFM Watts	981 89	929 97	866 105	791 113	717 121	642 128	566 134	492 140
	T2 / T3	230	CFM Watts	1507 260	1465 271	1425 281	1377 289	1329 295	1275 303	1216 310	1154 317
	T4 / T5	230	CFM Watts	1604 396	1560 402	1507 408	1468 424	1415 426	1364 423	1321 444	1276 454
Downshot Position	T1	230	683 Watts	922 91	873 100	814 108	743 116	674 124	604 131	532 138	462 143
	T2/T3	230	CFM Watts	1416 267	1377 277	1339 288	1294 296	1249 302	1198 311	1143 318	1085 325
	T4/T5	230	CFM Watts	1508 406	1466 412	1417 418	1380 435	1330 437	1282 434	1242 455	1199 465

GPHM54241**

SETUP	MOTOR TAP	VOLTS		STATIC							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Horizontal Position	T1	230	CFM Watts	1215 153	1162 162	1114 173	1073 184	1027 196	976 210	910 224	822 236
	T2 / T3	230	CFM Watts	1563 286	1521 297	1479 307	1435 317	1387 328	1346 339	1305 350	1247 359
	T4 / T5	230	CFM Watts	1775 416	1718 424	1673 430	1643 454	1588 458	1532 466	1482 478	1431 488
Downshot Position	T1	230	683 Watts	1142 157	1092 166	1047 177	1009 189	965 201	917 215	856 229	773 242
	T2/T3	230	CFM Watts	1469 293	1430 305	1390 315	1349 325	1303 336	1266 347	1227 359	1172 368
	T4/T5	230	CFM Watts	1669 426	1615 435	1573 441	1544 465	1493 469	1440 478	1393 490	1345 500

GPHM54841**

SETUP	MOTOR TAP	VOLTS		STATIC							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Horizontal Position	T1	230	CFM Watts	1271 169	1231 181	1186 190	1140 201	1094 211	1041 223	986 234	915 249
	T2 / T3	230	CFM Watts	1863 456	1819 466	1780 476	1740 487	1697 496	1655 504	1606 510	1562 516
	T4 / T5	230	CFM Watts	2012 578	1965 593	1912 599	1871 606	1809 610	1770 627	1741 626	1691 634
Downshot Position	T1	230	683 Watts	1195 173	1157 186	1114 195	1072 206	1028 216	979 228	927 240	860 255
	T2/T3	230	CFM Watts	1751 467	1710 477	1673 488	1635 499	1595 508	1556 516	1509 523	1468 529
	T4/T5	230	CFM Watts	1891 592	1847 608	1797 614	1759 621	1700 625	1664 643	1637 642	1590 650

NOTES

1. Data shown is dry coil. Wet coil pressure drop is approximately 0.02" 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.

GPHM56041**

HORIZONTAL FLOW

MOTOR TAP	EXTERNAL STATIC PRESSURE (ESP), 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.

MODEL AND HEAT KIT USAGE	CIRCUIT #1		CIRCUIT #2		SINGLE-POINT KIT		ACTUAL kW / BTU@ 240V
	MCA ¹	MOP ²	MCA ¹	MOP ²	MCA ¹	MOP ²	
GPHM52441**	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	46	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	58	60	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	71	80	9.5 / 32,400
GPHM53041**	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	48	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	60	60	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	73	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	97	100	14.25 / 48,600
GPHM53641**	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	51	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	63	70	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	76	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	101	110	14.25 / 48,600
GPHM54241**	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	53	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	65	70	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	78	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	102	110	14.25 / 48,600
HKP-20C	43 / 49	45 / 50	43 / 49	45 / 50	127	150	19.0 / 64,800
GPHM54841**	5.4	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	59	70	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	71	80	7 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	84	90	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	109	110	14.25 / 48,600
HKP-20C	43 / 49	45 / 50	43 / 49	45 / 50	134	150	19.0 / 64,800

¹ Minimum Circuit Ampacity @ 208 / 240 V

² Maximum Overcurrent Protection device @ 208 / 240 V

* Revision level that may or may not be designated

C Circuit Breaker option

^ Heat Kit requires three-phase power supply

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

MODEL AND HEAT KIT USAGE	MCA ¹	MOP ²	ACTUAL kW / BTU @ 240V	RECOMMENDED AIRFLOW RANGE
GPHM56041**	---	---	---	---
EHXD-1S05	65.1	80	5 / 17,000	1500-2500 CFM
EHXD-1S10	91.1	100	10 / 34,000	1500-2500 CFM
EHXD-1S15	117.2	125	15 / 51,000	1500-2500 CFM
EHXD-1S20	143.2	150	20 / 68,200	1500-2500 CFM

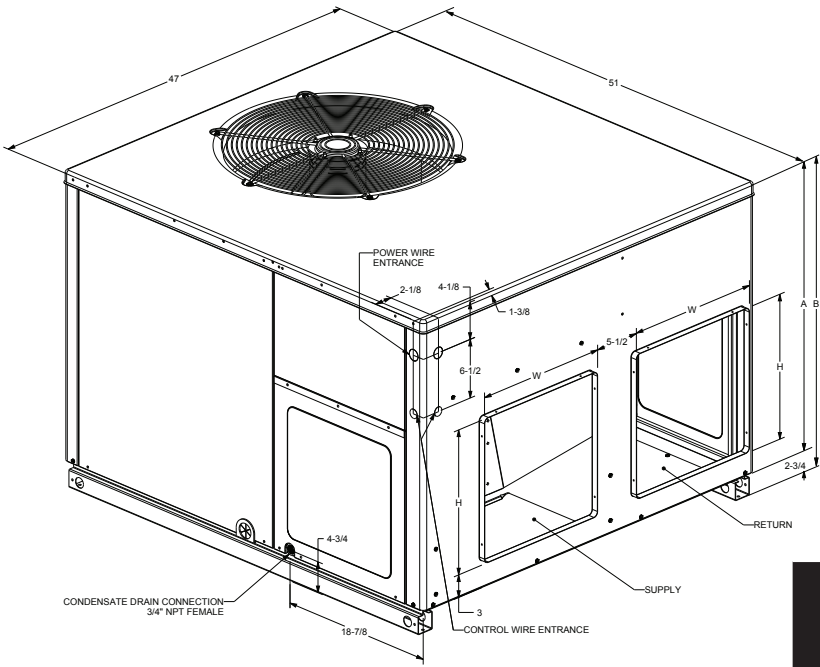
¹ Minimum Circuit Ampacity @ 208 / 240 V

² Maximum Overcurrent Protection Device @ 208 / 240 V

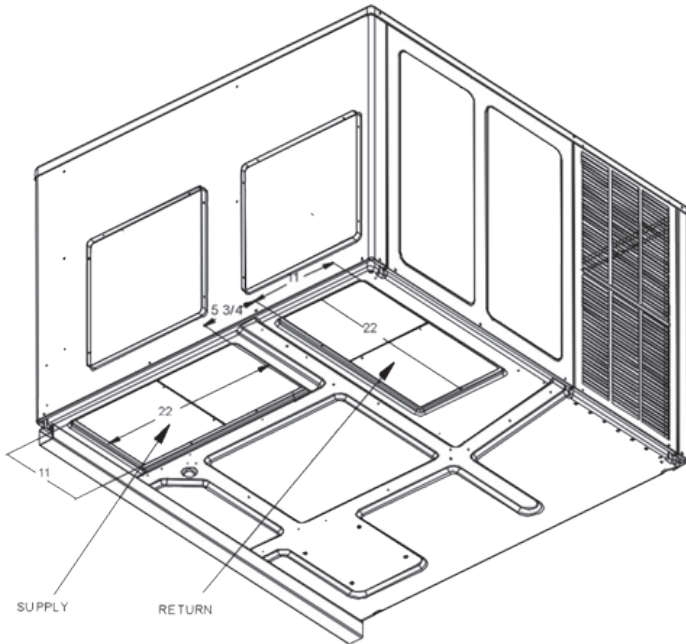
KW CORRECTION FACTORS

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

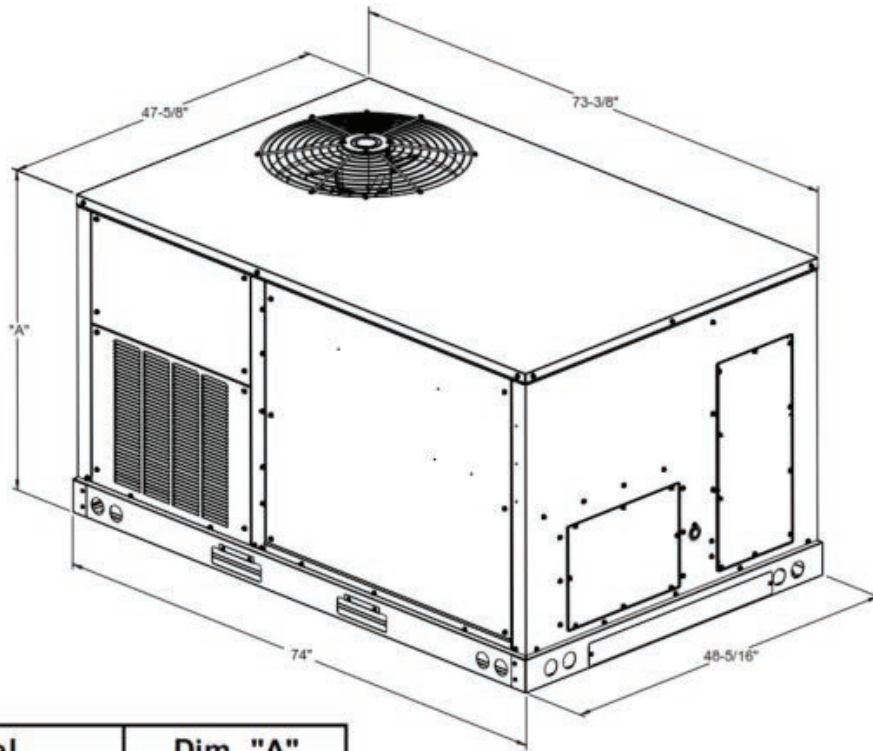
Multiply rated kW by correction factor to get actual kW



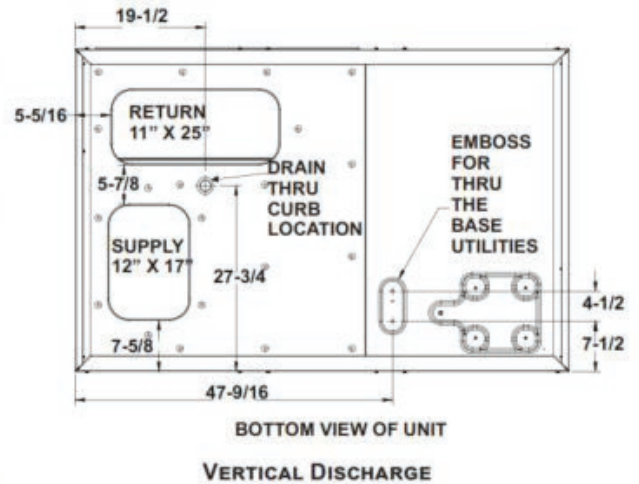
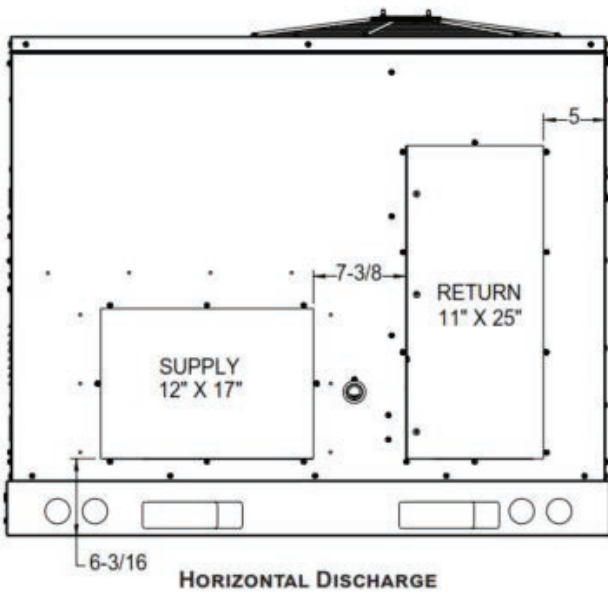
MODEL	UNIT DIMENSIONS (INCHES)				CHASSIS SIZE
			HEIGHT		
	W	D	A	B	
GPHM52441**	47	51	32	34 3/4	Medium
GPHM53041**	47	51	32	34 3/4	Medium
GPHM53641**	47	51	40	42 3/4	Large
GPHM54241**	47	51	40	42 3/4	Large
GPHM54841**	47	51	40	42 3/4	Large



MODEL	DUCT OPENINGS			
	SUPPLY		RETURN	
	W	H	W	H
GPHM52441**	16	16	16	16
GPHM53041**	16	16	16	16
GPHM53641**	16	18	16	18
GPHM54241**	16	18	16	18
GPHM54841**	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.

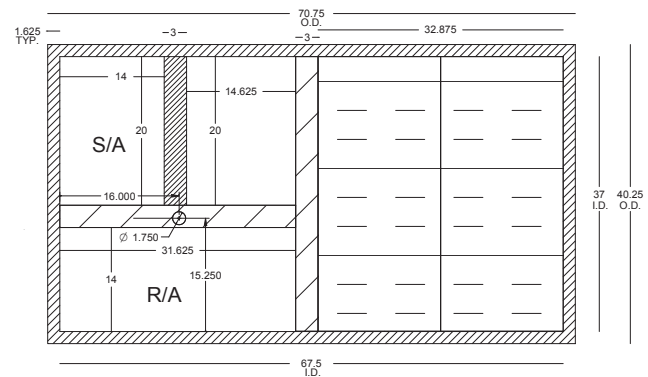
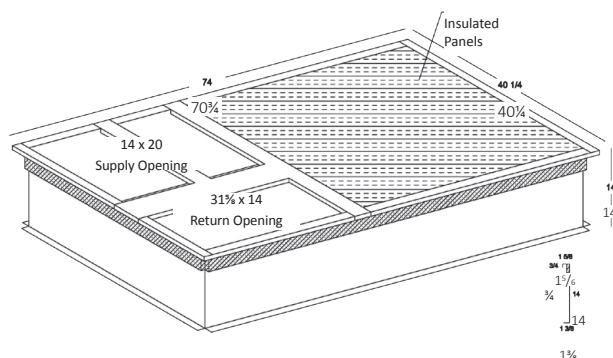
Note: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

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

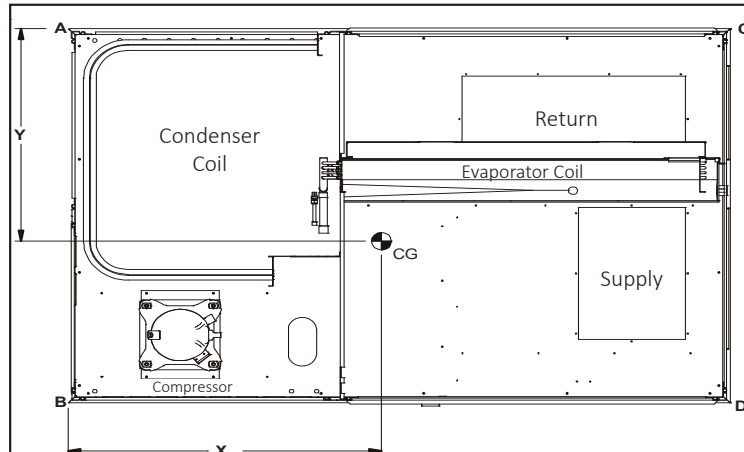


3-D VIEW

TOP VIEW



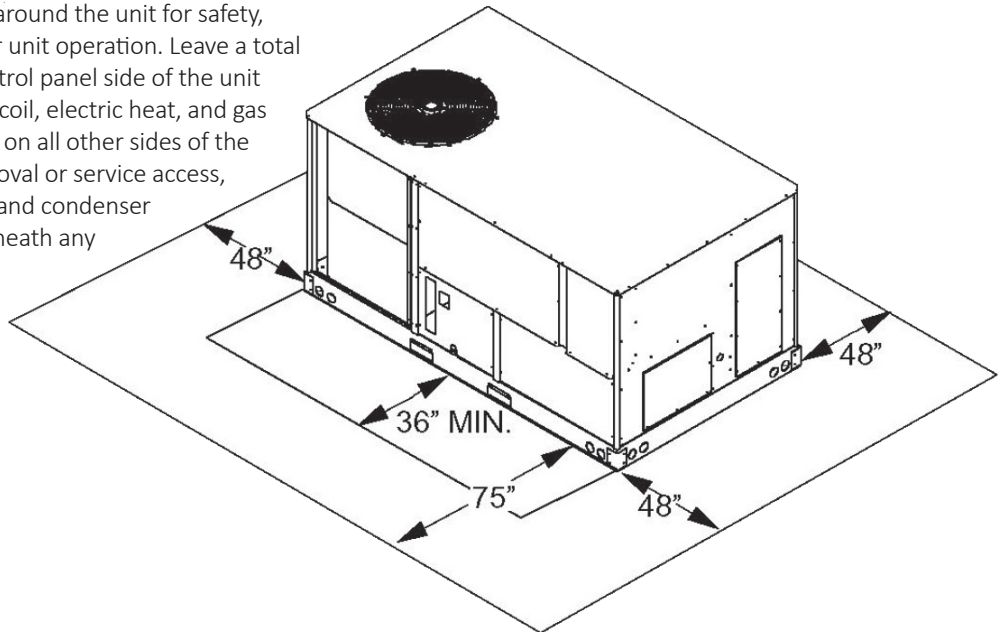
CORNER & CENTER-OF-GRAVITY LOCATIONS

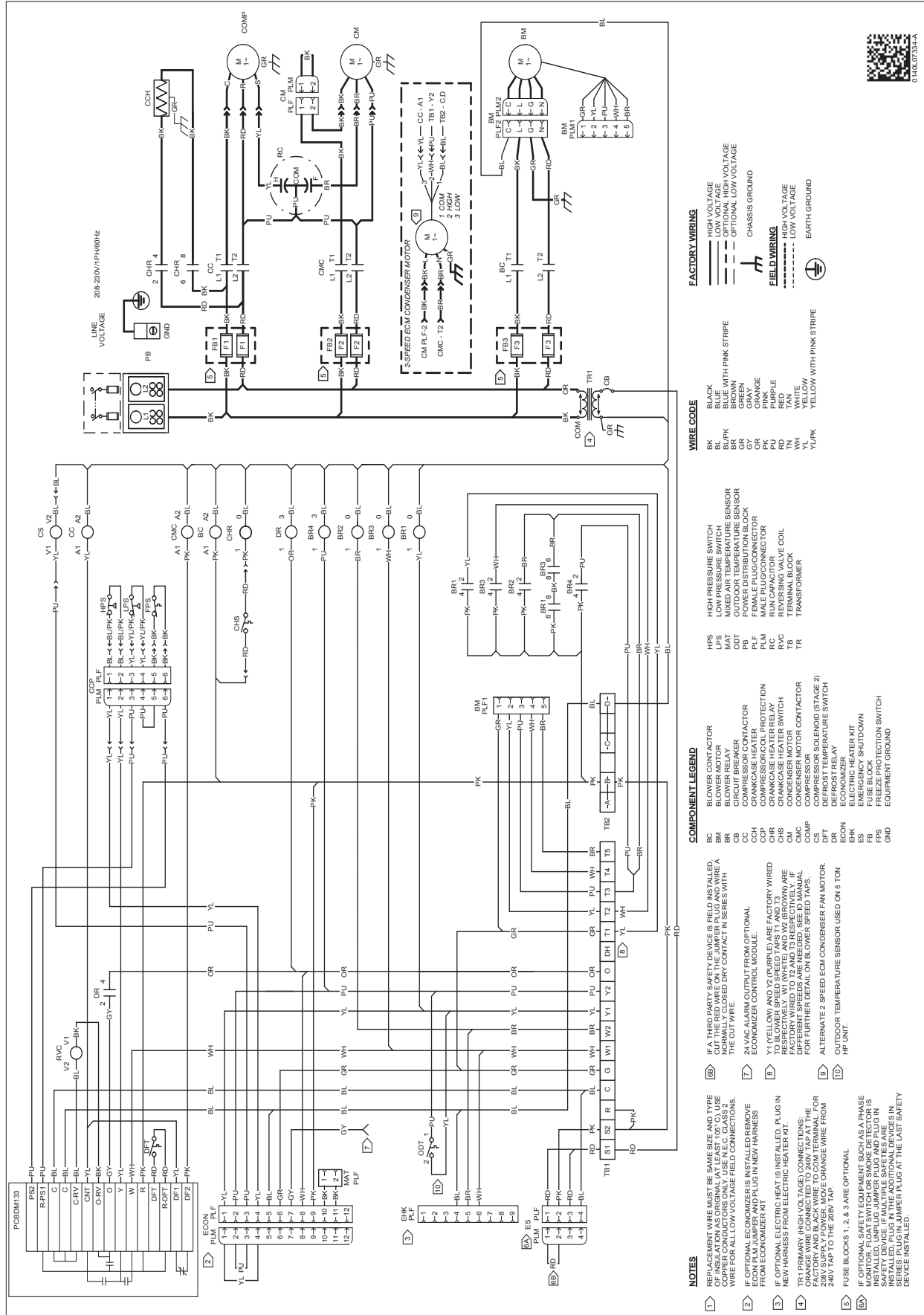


MODEL	X (IN)	Y (IN)	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	CORNER WEIGHTS (LBS.)			
					A	B	C	D
GPHM56041**	33.5	27.6	688	630	150	194	165	121

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.





WARNING

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



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

FOR GPHM5(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	DHZECNJPCHM	DHZECNJPCHL
Horizontal Manual Damper	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH102	PGMDMH103
Horizontal Square to Round	SQRPGH102	SQRPGH103
Outdoor Thermostat & Emergency Heat Relay Kit	OT/EHR18-60	OT/EHR18-60
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 GPHM56041** UNIT

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

SINGLE-POINT KIT ACCESSORY KITS

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

MODEL	SINGLE-POINT KIT
GPHM52441**	SPK-30
GPHM53041**	SPK-35
GPHM53641**	SPK-35
GPHM54241**	SPK-50
GPHM54841**	SPK-50
GPHM56041**	SPKT01/02