



Air Conditioning & Heating

GPH14M

PACKAGED HEAT PUMPS

2 TO 5 TONS

14 SEER & 8.0 HSPF

COOLING CAPACITY: 24,000 - 58,000 BTU/H

HEATING CAPACITY: 23,000 - 57,500 BTU/H

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Standard Features

- High-efficiency compressor
- EEM (X-13) blower motor
- Liquid-line filter drier
- Convertible airflow: horizontal or downflow
- All-Aluminum evaporator coil
- Copper tube/aluminum fin condenser coils
- Electric heat kit available as a field-installed option
- AHRI Certified; ETL Listed

Cabinet Features

- Heavy-gauge galvanized-steel cabinet with attractive Architectural Gray powder-paint finish
- Fully insulated air-handling compartment with convenient access panels
- Louvered condenser coil protection
- One footprint; two heights



* 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.

NOMENCLATURE

	G		P		H		14		36		M		4		1		A		*	
	1	2	3	4,5	6,7	8	9	10	11	12										
Brand	G Goodman® brand										Engineering Minor Revision									
Product Category	P Packaged Unit										Engineering Major Revision									
Type	H Heat Pump C Air Conditioner										Voltage Designator 1 208-230/1/60 3 208-230/3/60									
Efficiency	13 13 SEER	15 15 SEER	14 14 SEER	16 16 SEER	Refrigerant 4 R-410A															
Nominal Capacity	24 2 Tons	42 3½ Tons	30 2½ tons	48 4 Tons	36 3 Tons	60 5 Tons	Configuration H Horizontal M Multi-position													



SPECIFICATIONS

	GPH14 24M41A*	GPH14 30M41A*	GPH14 36M41A*	GPH14 42M41A*	GPH14 48M41A*	GPH14 60M41A*
COOLING CAPACITY						
Total BTU/h	24,000	28,600	34,400	41,000	48,000	58,000
Sensible BTU/h	18,700	21,700	26,000	29,500	36,500	42,300
SEER / EER	14/11	14/11	14/11	14/11	14/11	14/11
Decibels	76	76	81	80	79	80
AHRI #s	7470164	7470160	7470161	7470165	7470166	7470162
HEATING CAPACITY						
BTU/h (47°F)	23,000	28,000	33,200	40,600	45,600	57,500
C.O.P (47°F)	3.6	3.6	3.6	3.6	3.6	3.5
BTU/h (17°F)	12,600	17,000	19,000	23,000	27,000	31,200
C.O.P (17°F)	2.2	2.2	2.2	2.2	2.2	2.2
HSPF	8.0	8.0	8.0	8.0	8.0	8.0
EVAPORATOR MOTOR						
Type	EEM	EEM	EEM	EEM	EEM	EEM
Wheel (D x W)	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9
Nominal Cooling CFM	850	1,050	1,200	1,300	1,600	1,850
FLA / LRA	4.3 / --	4.3 / --	4.3 / --	5.8 / --	5.8 / --	7.6 / --
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 - 1,050
EVAPORATOR COIL						
Face Area (ft ²)	4.55	4.55	4.55	4.55	6.20	6.20
Rows Deep/ Fin per Inch	4 / 14	4 / 14	4 / 14	4 / 14	4 / 14	4 / 14
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	128	128	115	133	153	180
CONDENSER FAN / COIL						
Horsepower - RPM	¼ - 830	¼ - 830	¼ - 830	¼ - 1,075	¼ - 1,075	½ - 1,075
FLA/LRA	1.5 / 3.0	1.5 / 3.0	1.4 / 3.0	1.4 / 2.9	1.4 / 2.9	2.5 / 3.0
Fan Diameter / # Fan Blades	22 / 3	22 / 3	22 / 4	22 / 3	22 / 3	22 / 3
Face Area (ft ²)	12.21	12.21	12.21	12.21	15.30	21.32
Rows Deep/ Fin per Inch	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16
COMPRESSOR						
Quantity	1	1	1	1	1	1
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Stage	Single	Single	Single	Single	Single	2 Stage
ELECTRICAL DATA						
Voltage/ Phase (60 Hz)	208-230/1	208-230/1	208-230/1	208-230/1	208-230/1	208-230/1
Compressor RLA/ LRA	12.8 / 58.3	14.1 / 73	16.7 / 79	17.9 / 112	21.8 / 117	27.1/ 152.9
Total Unit Amps	18.6	19.9	22.4	25.1	29	37.2
Min. Circuit Ampacity ¹	21.8	23.4	26.6	29.6	34.5	44.0
Max. Overcurrent Protection ²	30 amps	35 amps	40 amps	45 amps	50 amps	70 amps
SHIPPING WEIGHT (LBS)	380	390	400	410	485	495

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

² May use fuses or HACR-type circuit breakers of the same size as noted.

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

EXPANDED COOLING DATA — GPH1424M41A**

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	23.2	24.0	26.3	-	22.6	23.5	25.7	-	22.1	22.9	25.1	-	21.6	22.3	24.5	-	20.5	21.2	23.3	-	20.5	21.2	23.3	-	19.0	19.7	21.5	-
	S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.85	0.71	0.49	-	0.89	0.74	0.51	-	0.89	0.74	0.51	-	0.89	0.75	0.52	-
	ΔT	17	15	11	-	18	15	12	-	17	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
	kW	1.55	1.58	1.63	-	1.67	1.70	1.75	-	1.77	1.81	1.87	-	1.86	1.90	1.96	-	1.94	1.98	2.05	-	1.94	1.98	2.05	-	2.01	2.05	2.12	-
	Amps	6.9	7.0	7.2	-	7.3	7.5	7.7	-	7.9	8.0	8.2	-	8.3	8.5	8.7	-	8.7	8.9	9.2	-	8.7	8.9	9.2	-	9.2	9.4	9.7	-
	HI PR	226	243	257	-	254	273	288	-	288	310	328	-	329	354	373	-	370	398	420	-	370	398	420	-	408	439	464	-
	LO PR	113	120	131	-	119	127	139	-	124	132	144	-	130	139	151	-	137	145	159	-	137	145	159	-	141	150	164	-
	MBh	22.8	23.7	25.9	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	21.2	22.0	24.1	-	20.2	20.9	22.9	-	20.2	20.9	22.9	-	18.7	19.4	21.2	-
	S/T	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
	kW	1.54	1.57	1.62	-	1.66	1.69	1.75	-	1.76	1.80	1.86	-	1.85	1.89	1.95	-	1.93	1.97	2.03	-	1.93	1.97	2.03	-	1.99	2.04	2.11	-
	Amps	6.9	7.0	7.2	-	7.3	7.4	7.6	-	7.8	8.0	8.2	-	8.3	8.4	8.7	-	8.7	8.9	9.1	-	8.7	8.9	9.1	-	9.1	9.3	9.6	-
HI PR	224	242	255	-	252	271	286	-	286	308	326	-	326	351	371	-	367	395	417	-	367	395	417	-	406	436	461	-	
LO PR	112	119	130	-	119	126	138	-	123	131	143	-	129	138	150	-	136	144	158	-	136	144	158	-	140	149	163	-	
MBh	21.7	22.5	24.6	-	21.2	22.0	24.1	-	20.7	21.4	23.5	-	20.2	20.9	22.9	-	19.2	19.9	21.8	-	19.2	19.9	21.8	-	17.8	18.4	20.2	-	
S/T	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-	0.82	0.69	0.47	-	
ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-	
kW	1.52	1.55	1.59	-	1.63	1.66	1.72	-	1.73	1.77	1.82	-	1.82	1.86	1.92	-	1.90	1.94	2.00	-	1.90	1.94	2.00	-	1.96	2.00	2.07	-	
Amps	6.8	6.9	7.1	-	7.2	7.3	7.5	-	7.7	7.8	8.1	-	8.1	8.3	8.5	-	8.6	8.7	9.0	-	8.6	8.7	9.0	-	9.0	9.2	9.4	-	
HI PR	220	237	250	-	247	266	280	-	281	302	319	-	320	344	363	-	360	387	409	-	360	387	409	-	397	428	452	-	
LO PR	110	117	128	-	116	124	135	-	121	129	140	-	127	135	147	-	133	141	154	-	133	141	154	-	138	146	160	-	

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				
75	MBh	23.6	24.3	26.3	28.2	23.0	23.7	25.7	27.5	22.5	23.1	25.0	26.9	21.9	22.6	24.4	26.2	20.8	21.4	23.2	24.9	20.8	21.4	23.2	24.9	19.3	19.9	21.5	23.1
	S/T	0.89	0.79	0.60	0.4	0.92	0.82	0.62	0.4	0.94	0.84	0.64	0.4	0.97	0.87	0.66	0.4	1.00	0.90	0.68	0.4	1.00	0.90	0.68	0.4	1.00	0.91	0.69	0.4
	ΔT	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	20	19	15	11	20	19	15	11	19	17	14	9.9
	kW	1.56	1.59	1.64	1.7	1.68	1.71	1.77	1.8	1.78	1.82	1.88	1.9	1.88	1.92	1.98	2.0	1.95	2.00	2.06	2.1	1.95	2.00	2.06	2.1	2.02	2.07	2.14	2.2
	Amps	6.9	7.1	7.3	7.5	7.4	7.5	7.7	8.0	7.9	8.1	8.3	8.6	8.4	8.5	8.8	9.1	8.8	9.0	9.3	9.6	8.8	9.0	9.3	9.6	9.3	9.5	9.7	10.1
	HI PR	228	246	259	270.6	256	276	291	303.7	291	314	331	345.4	332	357	377	393.4	373	402	424	442.5	373	402	424	442.5	413	444	469	488.9
	LO PR	114	121	133	141.2	121	128	140	149.2	125	133	146	155.1	132	140	153	162.9	138	147	160	170.7	138	147	160	170.7	143	152	166	176.6
	MBh	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	21.6	22.2	24.1	25.8	20.5	21.1	22.9	24.5	20.5	21.1	22.9	24.5	19.0	19.6	21.2	22.7
	S/T	0.85	0.76	0.57	0.4	0.88	0.79	0.59	0.4	0.90	0.81	0.61	0.4	0.93	0.83	0.63	0.4	0.97	0.86	0.65	0.4	0.97	0.86	0.65	0.4	0.97	0.87	0.66	0.4
	ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10.4
	kW	1.55	1.58	1.63	1.7	1.67	1.71	1.76	1.8	1.77	1.81	1.87	1.9	1.87	1.91	1.97	2.0	1.94	1.99	2.05	2.1	1.94	1.99	2.05	2.1	2.01	2.06	2.12	2.2
	Amps	6.9	7.0	7.2	7.4	7.4	7.5	7.7	7.9	7.9	8.0	8.3	8.5	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	8.8	9.0	9.2	9.5	9.2	9.4	9.7	10.0
HI PR	227	244	258	268.7	254	274	289	301.6	289	311	329	343.0	330	355	375	390.6	371	399	421	439.4	371	399	421	439.4	410	441	466	485.5	
LO PR	113	121	132	140.3	120	127	139	148.2	125	132	145	154.0	131	139	152	161.8	137	146	159	169.5	137	146	159	169.5	142	151	165	175.4	
MBh	22.1	22.7	24.6	26.4	21.5	22.2	24.0	25.8	21.0	21.7	23.4	25.2	20.5	21.1	22.9	24.5	19.5	20.1	21.7	23.3	19.5	20.1	21.7	23.3	18.1	18.6	20.1	21.6	
S/T	0.81	0.73	0.55	0.4	0.84	0.75	0.57	0.4	0.86	0.77	0.58	0.4	0.89	0.80	0.60	0.4	0.92	0.83	0.63	0.4	0.92	0.83	0.63	0.4	0.93	0.83	0.63	0.4	
ΔT	22	20	17	11	22	20	17	12	22	21	17	12	22	21	17	12	22	20	17	12	22	20	17	12	21	19	16	10.8	
kW	1.53	1.56	1.61	1.7	1.64	1.68	1.73	1.8	1.75	1.78	1.84	1.9	1.84	1.88	1.94	2.0	1.91	1.95	2.02	2.1	1.91	1.95	2.02	2.1	1.98	2.02	2.09	2.2	
Amps	6.8	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.1	8.4	8.2	8.4	8.6	8.9	8.6	8.8	9.1	9.4	8.6	8.8	9.1	9.4	9.1	9.3	9.5	9.8	
HI PR	222	239	253	263.4	249	268	283	295.5	284	305	322	336.1	323	348	367	382.8	363	391	413	430.7	363	391	413	430.7	401	432	456	475.8	
LO PR	111	118	129	137.5	117	125	136	145.2	122	130	142	150.9	128	136	149	158.5	134	143	156	166.1	134	143	156	166.1	139	148	161	171.9	

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

EXPANDED COOLING DATA — GPH1424M41A** (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB TEMPERATURE											
		65°F				75°F				85°F				95°F				105°F				115°F			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	24.0	24.5	26.2	28.0	23.4	23.9	25.6	27.3	22.9	23.4	25.0	26.7	22.3	22.8	24.4	26.0	21.2	21.7	23.1	24.7	19.6	20.1	21.4	22.9
	S/T	0.97	0.91	0.74	0.6	1.00	0.94	0.77	0.6	1.00	0.97	0.79	0.6	1.00	1.00	0.81	0.6	1.00	1.00	0.84	0.6	1.00	1.00	0.85	0.6
	ΔT	23	22	19	15	23	22	19	15	22	22	19	15	22	22	19	15	21	21	19	15	19	19	18	14.1
	kW	1.57	1.61	1.66	1.7	1.69	1.73	1.78	1.8	1.80	1.84	1.90	2.0	1.89	1.93	2.00	2.1	1.97	2.01	2.08	2.2	2.04	2.09	2.15	2.2
	Amps	7.0	7.1	7.3	7.5	7.4	7.6	7.8	8.0	8.0	8.1	8.4	8.6	8.4	8.6	8.8	9.1	8.9	9.1	9.3	9.6	9.3	9.5	9.8	10.1
	HI PR	231	248	262	273.4	259	279	294	306.7	294	317	334	348.9	335	361	381	397.3	377	406	429	447.0	417	448	474	493.9
	LO PR	115	123	134	142.7	122	130	142	150.7	127	135	147	156.7	133	142	155	164.6	139	148	162	172.4	144	153	167	178.4
	MBh	23.6	24.1	25.8	27.6	23.1	23.6	25.2	26.9	22.5	23.0	24.6	26.3	22.0	22.5	24.0	25.7	20.9	21.3	22.8	24.4	19.3	19.8	21.1	22.6
	S/T	0.93	0.87	0.71	0.5	0.96	0.90	0.74	0.5	0.99	0.93	0.75	0.6	1.00	0.96	0.78	0.6	1.00	0.99	0.81	0.6	1.00	1.00	0.82	0.6
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	19	14.9
	kW	1.56	1.60	1.65	1.7	1.68	1.72	1.77	1.8	1.79	1.83	1.89	1.9	1.88	1.92	1.99	2.1	1.96	2.00	2.07	2.1	2.03	2.07	2.14	2.2
	Amps	7.0	7.1	7.3	7.5	7.4	7.6	7.8	8.0	7.9	8.1	8.3	8.6	8.4	8.6	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1
HI PR	229	246	260	271.5	257	277	292	304.6	292	315	332	346.4	333	358	378	394.6	375	403	426	443.9	414	445	470	490.4	
LO PR	115	122	133	141.7	121	129	141	149.7	126	134	146	155.6	132	141	153	163.4	138	147	161	171.3	143	152	166	177.1	
MBh	22.5	22.9	24.5	26.2	21.9	22.4	23.9	25.6	21.4	21.9	23.4	25.0	20.9	21.3	22.8	24.4	19.8	20.3	21.7	23.2	18.4	18.8	20.1	21.4	
S/T	0.89	0.84	0.68	0.5	0.92	0.87	0.70	0.5	0.95	0.89	0.72	0.5	0.98	0.92	0.75	0.6	1.01	0.95	0.77	0.6	1.02	0.96	0.78	0.6	
ΔT	25	24	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15.4	
kW	1.54	1.57	1.62	1.7	1.66	1.69	1.75	1.8	1.76	1.80	1.86	1.9	1.85	1.89	1.95	2.0	1.93	1.97	2.03	2.1	1.99	2.04	2.11	2.2	
Amps	6.9	7.0	7.2	7.4	7.3	7.4	7.6	7.9	7.8	8.0	8.2	8.4	8.3	8.4	8.7	8.9	8.7	8.9	9.1	9.4	9.1	9.3	9.6	9.9	
HI PR	224	242	255	266.0	252	271	286	298.5	286	308	326	339.5	326	351	371	386.7	367	395	417	435.0	406	436	461	480.6	
LO PR	112	119	130	138.8	119	126	138	146.7	123	131	143	152.5	129	138	150	160.1	136	144	158	167.8	140	149	163	173.6	

85	MBh	24.4	24.9	26.1	27.8	23.8	24.3	25.5	27.2	23.3	23.7	24.8	26.5	22.7	23.1	24.2	25.9	21.6	22.0	23.0	24.6	20.0	20.4	21.3	22.8
	S/T	1.00	0.98	0.89	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.94	0.8	1.00	1.00	0.97	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8
	ΔT	24	24	22	19	23	24	23	20	23	23	23	20	22	22	23	20	21	21	22	19	19	20	21	18.2
	kW	1.59	1.62	1.67	1.7	1.71	1.74	1.80	1.9	1.81	1.85	1.91	2.0	1.91	1.95	2.01	2.1	1.99	2.03	2.10	2.2	2.06	2.10	2.17	2.2
	Amps	7.0	7.2	7.4	7.6	7.5	7.7	7.9	8.1	8.0	8.2	8.4	8.7	8.5	8.7	8.9	9.2	9.0	9.1	9.4	9.7	9.4	9.6	9.9	10.2
	HI PR	233	251	265	276.1	261	281	297	309.8	297	320	338	352.3	339	364	385	401.3	381	410	433	451.5	421	453	478	498.8
	LO PR	116	124	135	144.1	123	131	143	152.2	128	136	149	158.2	134	143	156	166.2	141	150	164	174.2	146	155	169	180.2
	MBh	24.0	24.5	25.7	27.4	23.5	23.9	25.1	26.8	22.9	23.4	24.5	26.1	22.4	22.8	23.9	25.5	21.2	21.7	22.7	24.2	19.7	20.1	21.0	22.4
	S/T	0.98	0.94	0.85	0.7	1.00	0.98	0.88	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.93	0.8	1.00	1.00	0.97	0.8	1.00	1.00	0.97	0.8
	ΔT	25	25	24	20	25	25	24	21	25	25	24	21	24	25	24	21	23	23	24	21	21	22	22	19.2
	kW	1.58	1.61	1.66	1.7	1.70	1.73	1.79	1.8	1.80	1.84	1.90	2.0	1.90	1.94	2.00	2.1	1.98	2.02	2.09	2.2	2.04	2.09	2.16	2.2
	Amps	7.0	7.1	7.3	7.6	7.5	7.6	7.8	8.1	8.0	8.2	8.4	8.6	8.5	8.6	8.9	9.2	8.9	9.1	9.4	9.7	9.4	9.6	9.8	10.2
HI PR	231	249	263	274.2	260	279	295	307.7	295	318	335	349.9	336	362	382	398.5	378	407	430	448.3	418	450	475	495.4	
LO PR	116	123	134	143.1	122	130	142	151.2	127	135	148	157.1	133	142	155	165.0	140	149	162	173.0	145	154	168	178.9	
MBh	22.8	23.3	24.4	26.0	22.3	22.7	23.8	25.4	21.8	22.2	23.3	24.8	21.2	21.7	22.7	24.2	20.2	20.6	21.6	23.0	18.7	19.1	20.0	21.3	
S/T	0.93	0.90	0.81	0.7	0.97	0.93	0.84	0.7	0.99	0.96	0.86	0.7	1.00	0.99	0.89	0.7	1.00	1.00	0.93	0.8	1.00	1.00	0.93	0.8	
ΔT	26	26	24	21	26	26	25	21	27	26	25	21	26	26	25	21	25	25	24	21	23	23	23	19.8	
kW	1.55	1.58	1.63	1.7	1.67	1.71	1.76	1.8	1.77	1.81	1.87	1.9	1.87	1.91	1.97	2.0	1.94	1.99	2.05	2.1	2.01	2.06	2.12	2.2	
Amps	6.9	7.0	7.2	7.4	7.4	7.5	7.7	7.9	7.9	8.0	8.3	8.5	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	9.2	9.4	9.7	10.0	
HI PR	227	244	258	268.7	254	274	289	301.5	289	311	329	342.9	330	355	374	390.5	371	399	421	439.4	410	441	465	485.4	
LO PR	113	121	132	140.2	120	127	139	148.2	124	132	145	154.0	131	139	152	161.7	137	146	159	169.5	142	151	165	175.3	

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

EXPANDED COOLING DATA — GPH1430M41A**

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	27.6	28.6	31.4	-	27.0	28.0	30.6	-	26.3	27.3	29.9	-	25.7	26.6	29.2	-	24.4	25.3	27.7	-	24.4	25.3	27.7	-	22.6	23.4	25.7	-
	S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.72	0.50	-	0.87	0.73	0.50	-
	ΔT	16	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	17	14	11	-	15	13	10	-
	kW	1.86	1.90	1.96	-	2.01	2.05	2.12	-	2.13	2.18	2.25	-	2.25	2.30	2.37	-	2.34	2.40	2.48	-	2.34	2.40	2.48	-	2.43	2.48	2.56	-
	Amps	8.2	8.4	8.6	-	8.8	8.9	9.2	-	9.4	9.6	9.9	-	9.9	10.2	10.4	-	10.5	10.7	11.0	-	10.5	10.7	11.0	-	11.0	11.3	11.6	-
	HI PR	235	253	267	-	264	284	300	-	300	323	341	-	341	367	388	-	384	413	437	-	384	413	437	-	424	457	482	-
	LO PR	112	119	130	-	118	126	137	-	123	131	143	-	129	137	150	-	135	144	157	-	135	144	157	-	140	149	162	-
	MBh	27.2	28.2	30.9	-	26.6	27.5	30.2	-	25.9	26.9	29.5	-	25.3	26.2	28.7	-	24.0	24.9	27.3	-	24.0	24.9	27.3	-	22.3	23.1	25.3	-
	S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
	ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	17	15	11	-	16	14	11	-
kW	1.85	1.89	1.95	-	2.00	2.04	2.11	-	2.12	2.17	2.24	-	2.23	2.28	2.36	-	2.33	2.38	2.46	-	2.33	2.38	2.46	-	2.41	2.47	2.55	-	
Amps	8.2	8.3	8.6	-	8.7	8.9	9.1	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-	10.4	10.7	11.0	-	10.4	10.7	11.0	-	11.0	11.2	11.5	-	
HI PR	233	251	265	-	262	282	297	-	298	320	338	-	339	365	385	-	381	411	434	-	381	411	434	-	421	454	479	-	
LO PR	111	118	129	-	117	125	136	-	122	130	142	-	128	136	149	-	134	143	156	-	134	143	156	-	139	148	161	-	
MBh	25.1	26.0	28.5	-	24.5	25.4	27.9	-	23.9	24.8	27.2	-	23.4	24.2	26.5	-	22.2	23.0	25.2	-	22.2	23.0	25.2	-	20.6	21.3	23.3	-	
S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-	
ΔT	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	18	15	12	-	17	14	11	-	
kW	1.81	1.85	1.90	-	1.95	1.99	2.05	-	2.07	2.12	2.18	-	2.18	2.23	2.30	-	2.27	2.32	2.40	-	2.27	2.32	2.40	-	2.35	2.40	2.48	-	
Amps	8.0	8.1	8.4	-	8.5	8.7	8.9	-	9.1	9.3	9.6	-	9.7	9.9	10.1	-	10.2	10.4	10.7	-	10.2	10.4	10.7	-	10.7	10.9	11.3	-	
HI PR	226	244	257	-	254	273	289	-	289	311	328	-	329	354	374	-	370	398	420	-	370	398	420	-	409	440	465	-	
LO PR	108	115	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	139	151	-	130	139	151	-	135	143	157	-	

75	MBh	28.1	28.9	31.3	33.6	27.4	28.2	30.6	32.8	26.8	27.6	29.8	32.0	26.1	26.9	29.1	31.2	24.8	25.6	27.7	29.7	23.0	23.7	25.6	27.5
	S/T	0.86	0.77	0.58	0.4	0.90	0.80	0.61	0.4	0.92	0.82	0.62	0.4	0.95	0.85	0.64	0.4	0.98	0.88	0.67	0.4	0.99	0.89	0.67	0.4
	ΔT	19	17	14	10	19	18	15	10	19	18	15	10	19	18	15	10	19	18	14	10	18	16	13	9.3
	kW	1.88	1.92	1.98	2.0	2.02	2.07	2.14	2.2	2.15	2.20	2.27	2.3	2.27	2.32	2.39	2.5	2.36	2.42	2.50	2.6	2.45	2.50	2.59	2.7
	Amps	8.3	8.4	8.7	8.9	8.8	9.0	9.3	9.5	9.5	9.7	9.9	10.3	10.0	10.2	10.5	10.9	10.6	10.8	11.1	11.5	11.1	11.4	11.7	12.1
	HI PR	237	255	270	281.3	266	287	303	315.6	303	326	344	359.0	345	371	392	408.8	388	418	441	460.0	429	461	487	508.2
	LO PR	113	120	131	139.8	119	127	139	147.7	124	132	144	153.5	130	139	151	161.3	137	145	159	169.0	141	150	164	174.8
	MBh	27.7	28.5	30.8	33.1	27.0	27.8	30.1	32.3	26.4	27.2	29.4	31.6	25.7	26.5	28.7	30.8	24.5	25.2	27.3	29.2	22.7	23.3	25.2	27.1
	S/T	0.83	0.74	0.56	0.4	0.86	0.77	0.58	0.4	0.88	0.79	0.60	0.4	0.91	0.81	0.61	0.4	0.94	0.84	0.64	0.4	0.95	0.85	0.64	0.4
	ΔT	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	9.8
kW	1.87	1.91	1.97	2.0	2.01	2.06	2.12	2.2	2.14	2.19	2.26	2.3	2.25	2.30	2.38	2.5	2.35	2.40	2.48	2.6	2.43	2.49	2.57	2.7	
Amps	8.2	8.4	8.6	8.9	8.8	9.0	9.2	9.5	9.4	9.6	9.9	10.2	10.0	10.2	10.5	10.8	10.5	10.7	11.1	11.4	11.1	11.3	11.6	12.0	
HI PR	236	254	268	279.3	264	285	301	313.4	301	324	342	356.5	343	369	389	406.0	385	415	438	456.8	426	458	484	504.7	
LO PR	112	119	130	138.9	119	126	138	146.7	123	131	143	152.5	129	138	150	160.2	136	144	158	167.8	140	149	163	173.6	
MBh	25.5	26.3	28.5	30.5	24.9	25.7	27.8	29.8	24.4	25.1	27.1	29.1	23.8	24.5	26.5	28.4	22.5	23.2	25.2	27.0	20.9	21.5	23.3	25.0	
S/T	0.80	0.71	0.54	0.3	0.83	0.74	0.56	0.4	0.85	0.76	0.57	0.4	0.88	0.78	0.59	0.4	0.91	0.81	0.61	0.4	0.92	0.82	0.62	0.4	
ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	15	11	19	18	14	10.0	
kW	1.82	1.86	1.92	2.0	1.96	2.01	2.07	2.1	2.09	2.13	2.20	2.3	2.20	2.25	2.32	2.4	2.29	2.34	2.42	2.5	2.37	2.42	2.50	2.6	
Amps	8.0	8.2	8.4	8.7	8.6	8.7	9.0	9.3	9.2	9.4	9.6	10.0	9.7	9.9	10.2	10.6	10.3	10.5	10.8	11.1	10.8	11.0	11.3	11.7	
HI PR	229	246	260	271.0	257	276	291	304.0	292	314	332	345.8	332	358	378	393.8	374	402	425	443.1	413	444	469	489.5	
LO PR	109	116	126	134.7	115	122	134	142.3	120	127	139	147.9	126	134	146	155.4	132	140	153	162.8	136	145	158	168.4	

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

EXPANDED COOLING DATA — GPH1430M41A** (CONT.)

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
80	MBh	28.6	29.2	31.2	33.4	27.9	28.5	30.5	32.6	27.3	27.9	29.8	31.8	26.6	27.2	29.0	31.0	25.3	25.8	27.6	29.5	23.4	23.9	25.5	27.3
	S/T	0.95	0.89	0.72	0.5	0.98	0.92	0.75	0.6	1.00	0.94	0.77	0.6	1.00	0.98	0.79	0.6	1.00	1.00	0.82	0.6	1.00	1.00	0.83	0.6
	ΔT	21	20	18	14	21	21	18	14	21	21	18	14	21	21	18	14	20	20	18	14	18	19	17	13.3
	kW	1.89	1.93	2.00	2.1	2.04	2.09	2.15	2.2	2.17	2.22	2.29	2.4	2.29	2.34	2.41	2.5	2.38	2.44	2.52	2.6	2.47	2.52	2.61	2.7
	Amps	8.3	8.5	8.7	9.0	8.9	9.1	9.3	9.6	9.5	9.7	10.0	10.3	10.1	10.3	10.6	11.0	10.7	10.9	11.2	11.6	11.2	11.5	11.8	12.2
	HI PR	240	258	272	284.1	269	289	306	318.8	306	329	348	362.6	348	375	396	413.0	392	422	445	464.6	433	466	492	513.3
	LO PR	114	121	133	141.2	121	128	140	149.2	125	133	146	155.1	132	140	153	162.9	138	147	160	170.7	143	152	166	176.6
	MBh	28.2	28.8	30.7	32.9	27.5	28.1	30.0	32.1	26.9	27.4	29.3	31.3	26.2	26.8	28.6	30.6	24.9	25.4	27.2	29.0	23.1	23.6	25.2	26.9
	S/T	0.91	0.85	0.69	0.5	0.94	0.88	0.72	0.5	0.96	0.90	0.74	0.6	1.00	0.93	0.76	0.6	1.00	0.97	0.79	0.6	1.00	0.98	0.80	0.6
	ΔT	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14.0
kW	1.88	1.92	1.98	2.0	2.03	2.07	2.14	2.2	2.16	2.21	2.28	2.4	2.27	2.32	2.40	2.5	2.37	2.42	2.50	2.6	2.45	2.51	2.59	2.7	
Amps	8.3	8.5	8.7	9.0	8.8	9.0	9.3	9.6	9.5	9.7	10.0	10.3	10.0	10.3	10.6	10.9	10.6	10.8	11.1	11.5	11.2	11.4	11.7	12.1	
HI PR	238	256	271	282.2	267	287	304	316.6	304	327	345	360.1	346	372	393	410.1	389	419	442	461.4	430	463	489	509.8	
LO PR	113	121	132	140.3	120	127	139	148.2	125	132	145	154.0	131	139	152	161.8	137	146	159	169.5	142	151	165	175.4	
MBh	26.0	26.6	28.4	30.3	25.4	25.9	27.7	29.6	24.8	25.3	27.1	28.9	24.2	24.7	26.4	28.2	23.0	23.5	25.1	26.8	21.3	21.7	23.2	24.8	
S/T	0.88	0.82	0.67	0.5	0.91	0.85	0.69	0.5	0.93	0.87	0.71	0.5	0.96	0.90	0.73	0.5	1.00	0.93	0.76	0.6	1.00	0.94	0.77	0.6	
ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14.2	
kW	1.84	1.88	1.94	2.0	1.98	2.02	2.09	2.2	2.10	2.15	2.22	2.3	2.22	2.26	2.34	2.4	2.31	2.36	2.44	2.5	2.39	2.44	2.53	2.6	
Amps	8.1	8.3	8.5	8.7	8.6	8.8	9.1	9.3	9.3	9.5	9.7	10.0	9.8	10.0	10.3	10.6	10.3	10.6	10.9	11.2	10.9	11.1	11.4	11.8	
HI PR	231	248	262	273.7	259	279	294	307.1	295	317	335	349.3	336	361	381	397.8	378	406	429	447.5	417	449	474	494.5	
LO PR	110	117	128	136.0	116	124	135	143.7	121	128	140	149.4	127	135	147	156.9	133	141	154	164.5	138	146	160	170.1	

85	MBh	29.1	29.6	31.1	33.1	28.4	29.0	30.3	32.4	27.7	28.3	29.6	31.6	27.1	27.6	28.9	30.8	25.7	26.2	27.4	29.3	23.8	24.3	25.4	27.1
	S/T	0.99	0.96	0.87	0.7	1.00	0.99	0.90	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.95	0.8	1.00	1.00	0.99	0.8	1.00	1.00	0.99	0.8
	ΔT	23	22	21	18	22	23	21	18	22	22	21	18	21	22	21	19	20	20	21	18	19	19	20	17.1
	kW	1.91	1.95	2.01	2.1	2.06	2.10	2.17	2.2	2.19	2.24	2.31	2.4	2.30	2.36	2.43	2.5	2.40	2.46	2.54	2.6	2.49	2.54	2.63	2.7
	Amps	8.4	8.6	8.8	9.1	9.0	9.1	9.4	9.7	9.6	9.8	10.1	10.4	10.2	10.4	10.7	11.1	10.7	11.0	11.3	11.7	11.3	11.6	11.9	12.3
	HI PR	242	261	275	287.0	272	292	309	322.0	309	333	351	366.2	352	379	400	417.1	396	426	450	469.2	437	471	497	518.5
	LO PR	115	123	134	142.7	122	130	142	150.7	127	135	147	156.6	133	142	154	164.5	139	148	162	172.4	144	153	167	178.4
	MBh	28.7	29.2	30.6	32.6	28.0	28.5	29.9	31.9	27.3	27.9	29.2	31.1	26.7	27.2	28.5	30.4	25.3	25.8	27.0	28.8	23.5	23.9	25.0	26.7
	S/T	0.95	0.92	0.83	0.7	0.99	0.95	0.86	0.7	1.00	0.98	0.88	0.7	1.00	1.00	0.91	0.7	1.00	1.00	0.94	0.8	1.00	1.00	0.95	0.8
	ΔT	24	23	22	19	24	24	22	19	24	24	22	19	23	24	23	20	22	23	22	19	21	21	21	18.1
kW	1.90	1.94	2.00	2.1	2.05	2.09	2.16	2.2	2.18	2.22	2.30	2.4	2.29	2.34	2.42	2.5	2.39	2.44	2.52	2.6	2.47	2.53	2.61	2.7	
Amps	8.4	8.5	8.8	9.0	8.9	9.1	9.3	9.6	9.6	9.8	10.0	10.4	10.1	10.3	10.6	11.0	10.7	10.9	11.2	11.6	11.2	11.5	11.8	12.2	
HI PR	240	259	273	285.0	270	290	307	319.8	307	330	349	363.7	349	376	397	414.2	393	423	447	466.0	434	467	494	514.9	
LO PR	115	122	133	141.7	121	129	141	149.7	126	134	146	155.5	132	141	153	163.4	138	147	161	171.2	143	152	166	177.1	
MBh	26.4	27.0	28.2	30.1	25.8	26.3	27.6	29.4	25.2	25.7	26.9	28.7	24.6	25.1	26.3	28.0	23.4	23.8	25.0	26.6	21.7	22.1	23.1	24.7	
S/T	0.92	0.89	0.80	0.6	0.95	0.92	0.83	0.7	0.97	0.94	0.85	0.7	1.00	0.97	0.88	0.7	1.00	1.00	0.91	0.7	1.00	1.00	0.92	0.7	
ΔT	24	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20	23	24	23	20	22	22	21	18.3	
kW	1.85	1.89	1.95	2.0	2.00	2.04	2.10	2.2	2.12	2.17	2.24	2.3	2.23	2.28	2.36	2.4	2.33	2.38	2.46	2.5	2.41	2.46	2.55	2.6	
Amps	8.2	8.3	8.6	8.8	8.7	8.9	9.1	9.4	9.3	9.5	9.8	10.1	9.9	10.1	10.4	10.7	10.4	10.7	11.0	11.3	11.0	11.2	11.5	11.9	
HI PR	233	251	265	276.4	262	282	297	310.2	298	320	338	352.8	339	365	385	401.8	381	410	433	452.0	421	453	479	499.4	
LO PR	111	118	129	137.4	117	125	136	145.2	122	130	142	150.9	128	136	149	158.5	134	143	156	166.1	139	148	161	171.8	

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

EXPANDED COOLING DATA — GPH1436M41A**

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	1350	MBh	33.7	34.9	38.3	-	32.9	34.1	37.4	-	32.1	33.3	36.5	-	31.4	32.5	35.6	-	29.8	30.9	33.8	-	27.6	28.6	31.3	-	
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.73	0.51	-	
		ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-	
	1200	kW	2.35	2.40	2.47	-	2.53	2.58	2.67	-	2.69	2.75	2.84	-	2.83	2.89	2.99	-	2.95	3.02	3.12	-	3.05	3.12	3.23	-	
		Amps	10.4	10.6	10.9	-	11.1	11.3	11.6	-	11.9	12.2	12.5	-	12.6	12.9	13.2	-	13.3	13.6	14.0	-	14.0	14.3	14.7	-	
		HI PR	242	260	275	-	271	292	308	-	309	332	351	-	351	378	399	-	395	426	449	-	437	470	496	-	
	1050	LO PR	111	118	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	139	148	162	-	
		MBh	32.7	33.9	37.2	-	32.0	33.1	36.3	-	31.2	32.3	35.4	-	30.4	31.6	34.6	-	28.9	30.0	32.8	-	26.8	27.8	30.4	-	
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-	
	75	1350	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
			kW	2.33	2.38	2.46	-	2.51	2.56	2.65	-	2.67	2.73	2.82	-	2.81	2.87	2.96	-	2.93	2.99	3.09	-	3.03	3.10	3.20	-
			Amps	10.3	10.5	10.8	-	11.0	11.2	11.5	-	11.8	12.1	12.4	-	12.5	12.8	13.1	-	13.2	13.5	13.9	-	13.9	14.2	14.6	-
1200		HI PR	239	258	272	-	269	289	305	-	306	329	347	-	348	375	395	-	392	421	445	-	433	466	492	-	
		LO PR	110	117	128	-	116	124	135	-	121	129	141	-	127	135	148	-	133	142	155	-	138	147	160	-	
		MBh	30.2	31.3	34.3	-	29.5	30.6	33.5	-	28.8	29.9	32.7	-	28.1	29.1	31.9	-	26.7	27.7	30.3	-	24.7	25.6	28.1	-	
1050		S/T	0.70	0.58	0.41	-	0.73	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.67	0.46	-	0.80	0.67	0.47	-	
		ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	
		kW	2.28	2.32	2.40	-	2.45	2.50	2.58	-	2.60	2.66	2.75	-	2.74	2.80	2.89	-	2.85	2.92	3.01	-	2.95	3.02	3.12	-	
75		1350	Amps	10.1	10.3	10.6	-	10.8	11.0	11.3	-	11.5	11.8	12.1	-	12.2	12.5	12.8	-	12.9	13.2	13.5	-	13.5	13.8	14.2	-
			HI PR	232	250	264	-	261	280	296	-	296	319	337	-	338	363	384	-	380	409	432	-	420	452	477	-
			LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-
	1200	MBh	34.3	35.3	38.2	41.0	33.5	34.5	37.3	40.0	32.7	33.7	36.4	39.1	31.9	32.8	35.5	38.1	30.3	31.2	33.8	36.2	28.1	28.9	31.3	33.6	
		S/T	0.87	0.77	0.59	0.4	0.90	0.80	0.61	0.4	0.92	0.82	0.62	0.4	0.95	0.85	0.64	0.4	0.99	0.88	0.67	0.4	0.99	0.89	0.67	0.4	
		ΔT	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	20	19	15	11	19	17	14	9.9	
	1050	kW	2.37	2.42	2.50	2.6	2.55	2.61	2.69	2.8	2.71	2.77	2.86	3.0	2.86	2.92	3.01	3.1	2.98	3.04	3.14	3.3	3.08	3.15	3.26	3.4	
		Amps	10.5	10.7	11.0	11.3	11.2	11.4	11.7	12.1	12.0	12.2	12.6	13.0	12.7	13.0	13.4	13.8	13.4	13.7	14.1	14.6	14.1	14.4	14.8	15.4	
		HI PR	244	263	278	289.5	274	295	311	324.9	312	335	354	369.5	355	382	403	420.8	399	430	454	473.4	441	475	502	523.1	
	1350	LO PR	112	120	131	139.0	119	126	138	146.9	123	131	143	152.7	130	138	151	160.4	136	145	158	168.1	141	150	163	173.8	
		MBh	33.3	34.3	37.1	39.8	32.5	33.5	36.2	38.9	31.7	32.7	35.4	38.0	31.0	31.9	34.5	37.0	29.4	30.3	32.8	35.2	27.2	28.1	30.4	32.6	
		S/T	0.83	0.74	0.56	0.4	0.86	0.77	0.58	0.4	0.88	0.78	0.59	0.4	0.91	0.81	0.61	0.4	0.94	0.84	0.64	0.4	0.95	0.85	0.64	0.4	
1200	ΔT	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	20	16	11	20	18	15	10.3		
	kW	2.35	2.40	2.48	2.6	2.53	2.59	2.67	2.8	2.69	2.75	2.84	2.9	2.83	2.89	2.99	3.1	2.95	3.02	3.12	3.2	3.05	3.12	3.23	3.3		
	Amps	10.4	10.6	10.9	11.2	11.1	11.3	11.6	12.0	11.9	12.2	12.5	12.9	12.6	12.9	13.2	13.7	13.3	13.6	14.0	14.5	14.0	14.3	14.7	15.2		
1050	HI PR	242	260	275	286.7	271	292	308	321.7	309	332	351	365.8	352	378	399	416.7	396	426	449	468.8	437	470	497	517.9		
	LO PR	111	118	129	137.7	118	125	137	145.4	122	130	142	151.2	128	137	149	158.8	135	143	156	166.4	139	148	162	172.1		
	MBh	30.7	31.6	34.2	36.7	30.0	30.9	33.4	35.9	29.3	30.2	32.6	35.0	28.6	29.4	31.8	34.2	27.1	28.0	30.3	32.5	25.1	25.9	28.0	30.1		
1350	S/T	0.80	0.71	0.54	0.3	0.83	0.74	0.56	0.4	0.85	0.76	0.57	0.4	0.87	0.78	0.59	0.4	0.91	0.81	0.61	0.4	0.91	0.82	0.62	0.4		
	ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	19	15	10.5		
	kW	2.29	2.34	2.42	2.5	2.47	2.52	2.60	2.7	2.62	2.68	2.77	2.9	2.76	2.82	2.91	3.0	2.88	2.94	3.04	3.1	2.98	3.04	3.15	3.3		
1200	Amps	10.2	10.4	10.6	11.0	10.8	11.1	11.4	11.7	11.6	11.9	12.2	12.6	12.3	12.6	12.9	13.3	13.0	13.3	13.6	14.1	13.7	14.0	14.4	14.8		
	HI PR	235	252	267	278.1	263	283	299	312.0	299	322	340	354.9	341	367	388	404.2	384	413	436	454.7	424	456	482	502.4		
	LO PR	108	115	125	133.5	114	121	132	141.1	119	126	138	146.6	125	132	145	154.0	130	139	152	161.4	135	144	157	167.0		

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

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

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

EXPANDED COOLING DATA — GPH1436M41A** (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB TEMPERATURE											
		65°F				75°F				85°F				95°F				105°F				115°F			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	34.9	35.7	38.1	40.7	34.1	34.8	37.2	39.8	33.3	34.0	36.3	38.8	32.5	33.2	35.4	37.9	30.8	31.5	33.7	36.0	28.6	29.2	31.2	33.3
	S/T	0.95	0.89	0.72	0.5	1.00	0.92	0.75	0.6	1.00	0.95	0.77	0.6	1.00	1.00	0.80	0.6	1.00	1.00	0.83	0.6	1.00	1.00	0.83	0.6
	ΔT	23	22	19	15	23	22	19	15	23	22	19	15	22	23	19	15	21	21	19	15	19	20	18	14.1
	kW	2.39	2.44	2.52	2.6	2.57	2.63	2.71	2.8	2.74	2.80	2.89	3.0	2.88	2.94	3.04	3.1	3.00	3.07	3.17	3.3	3.11	3.18	3.28	3.4
	Amps	10.5	10.8	11.1	11.4	11.3	11.5	11.8	12.2	12.1	12.3	12.7	13.1	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7	14.2	14.5	15.0	15.5
	HI PR	247	266	280	292.5	277	298	315	328.2	315	339	358	373.2	359	386	408	425.1	403	434	459	478.2	446	480	507	528.4
	LO PR	114	121	132	140.4	120	128	139	148.4	125	133	145	154.2	131	139	152	162.0	137	146	159	169.8	142	151	165	175.6
	MBh	33.9	34.6	37.0	39.5	33.1	33.8	36.1	38.6	32.3	33.0	35.3	37.7	31.5	32.2	34.4	36.8	29.9	30.6	32.7	34.9	27.7	28.3	30.3	32.4
	S/T	0.91	0.85	0.69	0.5	0.94	0.88	0.72	0.5	0.96	0.90	0.73	0.5	0.99	0.93	0.76	0.6	1.00	0.97	0.79	0.6	1.00	0.98	0.79	0.6
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	18	14.7
kW	2.37	2.42	2.50	2.6	2.55	2.61	2.69	2.8	2.71	2.77	2.86	3.0	2.86	2.92	3.02	3.1	2.98	3.04	3.14	3.3	3.08	3.15	3.26	3.4	
Amps	10.5	10.7	11.0	11.3	11.2	11.4	11.7	12.1	12.0	12.2	12.6	13.0	12.7	13.0	13.4	13.8	13.4	13.7	14.1	14.6	14.1	14.4	14.9	15.4	
HI PR	244	263	278	289.6	274	295	312	324.9	312	336	354	369.5	355	382	404	420.9	399	430	454	473.5	441	475	502	523.2	
LO PR	112	120	131	139.1	119	126	138	146.9	123	131	143	152.7	130	138	151	160.4	136	145	158	168.1	141	150	163	173.9	
MBh	31.3	31.9	34.1	36.5	30.5	31.2	33.3	35.6	29.8	30.5	32.5	34.8	29.1	29.7	31.8	33.9	27.6	28.2	30.2	32.2	25.6	26.2	27.9	29.9	
S/T	0.87	0.82	0.67	0.5	0.90	0.85	0.69	0.5	0.93	0.87	0.71	0.5	0.96	0.90	0.73	0.5	0.99	0.93	0.76	0.6	1.00	0.94	0.77	0.6	
ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	22	19	15.0	
kW	2.31	2.36	2.43	2.5	2.49	2.54	2.62	2.7	2.65	2.70	2.79	2.9	2.78	2.85	2.94	3.0	2.90	2.97	3.06	3.2	3.00	3.07	3.17	3.3	
Amps	10.2	10.4	10.7	11.1	10.9	11.1	11.5	11.8	11.7	12.0	12.3	12.7	12.4	12.7	13.0	13.5	13.1	13.4	13.8	14.2	13.8	14.1	14.5	15.0	
HI PR	237	255	269	280.9	266	286	302	315.2	302	325	344	358.5	344	371	391	408.3	388	417	440	459.3	428	461	487	507.5	
LO PR	109	116	127	134.9	115	123	134	142.5	120	127	139	148.1	126	134	146	155.6	132	140	153	163.0	136	145	158	168.6	

85	MBh	35.5	36.2	37.9	40.4	34.7	35.3	37.0	39.5	33.8	34.5	36.1	38.6	33.0	33.7	35.3	37.6	31.4	32.0	33.5	35.7	29.1	29.6	31.0	33.1
	S/T	1.00	0.96	0.87	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.95	0.8	1.00	1.00	0.99	0.8	1.00	1.00	1.00	0.8
	ΔT	24	24	22	19	24	24	23	20	23	23	23	20	22	23	23	20	21	22	23	19	20	20	21	18.2
	kW	2.41	2.46	2.54	2.6	2.59	2.65	2.73	2.8	2.76	2.82	2.91	3.0	2.90	2.97	3.07	3.2	3.03	3.09	3.20	3.3	3.13	3.20	3.31	3.4
	Amps	10.6	10.8	11.1	11.5	11.4	11.6	11.9	12.3	12.2	12.4	12.8	13.2	12.9	13.2	13.6	14.0	13.6	13.9	14.3	14.8	14.3	14.7	15.1	15.6
	HI PR	249	268	283	295.4	280	301	318	331.5	318	342	361	377.0	362	390	412	429.3	408	439	463	483.0	450	485	512	533.7
	LO PR	115	122	133	141.9	121	129	141	149.9	126	134	146	155.8	132	141	154	163.6	139	147	161	171.5	143	153	167	177.4
	MBh	34.5	35.1	36.8	39.3	33.7	34.3	35.9	38.3	32.9	33.5	35.1	37.4	32.1	32.7	34.2	36.5	30.5	31.0	32.5	34.7	28.2	28.8	30.1	32.1
	S/T	0.95	0.92	0.83	0.7	0.98	0.95	0.86	0.7	1.00	0.97	0.88	0.7	1.00	1.00	0.91	0.7	1.00	1.00	0.94	0.8	1.00	1.00	1.00	0.95
	ΔT	25	25	23	20	25	25	24	20	25	25	24	20	25	25	24	21	23	24	23	20	22	22	22	19.0
kW	2.39	2.44	2.52	2.6	2.57	2.63	2.71	2.8	2.74	2.80	2.89	3.0	2.88	2.94	3.04	3.1	3.00	3.07	3.17	3.3	3.11	3.18	3.28	3.4	
Amps	10.5	10.8	11.1	11.4	11.3	11.5	11.8	12.2	12.1	12.3	12.7	13.1	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7	14.2	14.5	15.0	15.5	
HI PR	247	266	280	292.5	277	298	315	328.2	315	339	358	373.2	359	386	408	425.1	403	434	459	478.2	446	480	507	528.4	
LO PR	114	121	132	140.4	120	128	139	148.4	125	133	145	154.2	131	139	152	162.0	137	146	159	169.8	142	151	165	175.6	
MBh	31.8	32.4	34.0	36.2	31.1	31.7	33.2	35.4	30.3	30.9	32.4	34.5	29.6	30.2	31.6	33.7	28.1	28.7	30.0	32.0	26.0	26.5	27.8	29.7	
S/T	0.92	0.88	0.80	0.6	0.95	0.92	0.83	0.7	0.97	0.94	0.85	0.7	1.00	0.97	0.87	0.7	1.00	1.00	0.91	0.7	1.00	1.00	1.00	0.92	
ΔT	25	25	24	21	26	25	24	21	26	25	24	21	26	26	24	21	25	25	24	21	23	23	22	19.3	
kW	2.33	2.38	2.45	2.5	2.51	2.56	2.65	2.7	2.67	2.73	2.81	2.9	2.81	2.87	2.96	3.1	2.93	2.99	3.09	3.2	3.03	3.10	3.20	3.3	
Amps	10.3	10.5	10.8	11.1	11.0	11.2	11.5	11.9	11.8	12.1	12.4	12.8	12.5	12.8	13.1	13.6	13.2	13.5	13.9	14.3	13.9	14.2	14.6	15.1	
HI PR	239	258	272	283.7	269	289	305	318.3	305	329	347	362.0	348	374	395	412.3	391	421	445	463.9	432	465	491	512.5	
LO PR	110	117	128	136.2	116	124	135	143.9	121	129	140	149.6	127	135	148	157.1	133	142	155	164.7	138	147	160	170.3	

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

EXPANDED COOLING DATA — GPH1442M41A**

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	40.2	41.6	45.6	-	39.2	40.7	44.6	-	38.3	39.7	43.5	-	37.4	38.7	42.4	-	35.5	36.8	40.3	-	32.9	34.1	37.3	-
	S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
	kW	2.82	2.88	2.98	-	3.04	3.11	3.21	-	3.24	3.31	3.42	-	3.41	3.48	3.60	-	3.55	3.63	3.76	-	3.68	3.76	3.89	-
	Amps	13.1	13.3	13.7	-	13.9	14.2	14.6	-	15.0	15.3	15.7	-	15.9	16.2	16.7	-	16.8	17.1	17.6	-	17.7	18.0	18.6	-
	HI PR	251	271	286	-	282	304	321	-	321	345	365	-	365	393	415	-	411	442	467	-	454	489	516	-
	LO PR	108	115	126	-	115	122	133	-	119	127	138	-	125	133	145	-	131	139	152	-	136	144	157	-
	MBh	39.0	40.4	44.3	-	38.1	39.5	43.3	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	34.5	35.7	39.1	-	31.9	33.1	36.3	-
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.61	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-
	ΔT	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-
kW	2.80	2.86	2.95	-	3.02	3.08	3.18	-	3.21	3.28	3.39	-	3.38	3.46	3.57	-	3.52	3.60	3.72	-	3.65	3.73	3.86	-	
Amps	13.0	13.2	13.6	-	13.8	14.1	14.5	-	14.9	15.2	15.6	-	15.8	16.1	16.6	-	16.6	17.0	17.5	-	17.5	17.9	18.4	-	
HI PR	249	268	283	-	279	301	317	-	318	342	361	-	362	389	411	-	407	438	463	-	450	484	511	-	
LO PR	107	114	125	-	113	121	132	-	118	125	137	-	124	132	144	-	130	138	151	-	134	143	156	-	
MBh	36.0	37.3	40.9	-	35.2	36.4	39.9	-	34.3	35.6	39.0	-	33.5	34.7	38.0	-	31.8	33.0	36.1	-	29.5	30.5	33.5	-	
S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.77	0.64	0.44	-	
ΔT	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	
kW	2.73	2.79	2.88	-	2.94	3.01	3.11	-	3.13	3.20	3.30	-	3.30	3.37	3.48	-	3.44	3.51	3.63	-	3.56	3.64	3.76	-	
Amps	12.7	12.9	13.3	-	13.5	13.8	14.2	-	14.5	14.8	15.2	-	15.4	15.7	16.2	-	16.2	16.6	17.1	-	17.1	17.5	18.0	-	
HI PR	241	260	274	-	271	292	308	-	308	332	350	-	351	378	399	-	395	425	449	-	436	470	496	-	
LO PR	104	111	121	-	110	117	128	-	114	122	133	-	120	128	139	-	126	134	146	-	130	138	151	-	

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
75	MBh	40.9	42.1	45.5	48.9	39.9	41.1	44.5	47.7	39.0	40.1	43.4	46.6	38.0	39.1	42.4	45.5	36.1	37.2	40.2	43.2	33.4	34.4	37.3	40.0
	S/T	0.83	0.74	0.56	0.4	0.86	0.76	0.58	0.4	0.88	0.78	0.59	0.4	0.91	0.81	0.61	0.4	0.94	0.84	0.64	0.4	0.95	0.85	0.64	0.4
	ΔT	21	20	16	11	21	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10.4
	kW	2.85	2.91	3.00	3.1	3.07	3.14	3.24	3.3	3.26	3.34	3.45	3.6	3.44	3.51	3.63	3.8	3.58	3.67	3.79	3.9	3.71	3.80	3.92	4.1
	Amps	13.2	13.4	13.8	14.2	14.1	14.4	14.8	15.2	15.1	15.4	15.9	16.4	16.0	16.4	16.8	17.4	16.9	17.3	17.8	18.4	17.8	18.2	18.7	19.4
	HI PR	254	273	289	301.1	285	307	324	337.8	324	349	368	384.2	369	397	420	437.6	415	447	472	492.3	459	494	522	543.9
	LO PR	109	116	127	135.4	116	123	134	143.1	120	128	140	148.7	126	134	147	156.2	132	141	154	163.7	137	146	159	169.3
	MBh	39.7	40.8	44.2	47.4	38.7	39.9	43.2	46.3	37.8	38.9	42.2	45.2	36.9	38.0	41.1	44.1	35.1	36.1	39.1	41.9	32.5	33.4	36.2	38.8
	S/T	0.79	0.70	0.53	0.3	0.82	0.73	0.55	0.4	0.84	0.75	0.57	0.4	0.86	0.77	0.58	0.4	0.90	0.80	0.61	0.4	0.90	0.81	0.61	0.4
	ΔT	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	23	21	17	12	21	19	16	10.8
kW	2.82	2.88	2.98	3.1	3.04	3.11	3.21	3.3	3.24	3.31	3.42	3.5	3.41	3.49	3.60	3.7	3.55	3.63	3.76	3.9	3.68	3.76	3.89	4.0	
Amps	13.1	13.3	13.7	14.1	14.0	14.2	14.6	15.1	15.0	15.3	15.7	16.3	15.9	16.2	16.7	17.3	16.8	17.1	17.6	18.2	17.7	18.0	18.6	19.2	
HI PR	252	271	286	298.1	282	304	321	334.5	321	345	365	380.4	366	393	415	433.3	411	443	467	487.4	454	489	516	538.6	
LO PR	108	115	126	134.1	115	122	133	141.7	119	127	138	147.2	125	133	145	154.7	131	139	152	162.1	136	144	157	167.7	
MBh	36.6	37.7	40.8	43.8	35.8	36.8	39.9	42.8	34.9	35.9	38.9	41.8	34.1	35.1	38.0	40.7	32.4	33.3	36.1	38.7	30.0	30.9	33.4	35.8	
S/T	0.76	0.68	0.51	0.3	0.79	0.70	0.53	0.3	0.81	0.72	0.55	0.4	0.83	0.74	0.56	0.4	0.86	0.77	0.58	0.4	0.87	0.78	0.59	0.4	
ΔT	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11.0	
kW	2.76	2.81	2.90	3.0	2.97	3.03	3.13	3.2	3.16	3.23	3.33	3.4	3.32	3.40	3.51	3.6	3.46	3.54	3.66	3.8	3.59	3.67	3.79	3.9	
Amps	12.8	13.0	13.4	13.8	13.6	13.9	14.3	14.8	14.6	14.9	15.4	15.9	15.5	15.8	16.3	16.8	16.4	16.7	17.2	17.8	17.2	17.6	18.1	18.7	
HI PR	244	263	277	289.1	274	295	311	324.4	311	335	354	369.0	355	382	403	420.3	399	429	453	472.8	441	474	501	522.4	
LO PR	105	112	122	130.1	111	118	129	137.4	115	123	134	142.8	121	129	141	150.0	127	135	148	157.2	131	140	153	162.6	

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

EXPANDED COOLING DATA — GPH1442M41A** (CONT.)

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
80	MBh	41.6	42.5	45.4	48.5	40.6	41.5	44.3	47.4	39.6	40.5	43.3	46.3	38.7	39.5	42.2	45.1	36.7	37.6	40.1	42.9	34.0	34.8	37.2	39.7
	S/T	0.91	0.85	0.69	0.5	0.94	0.88	0.72	0.5	0.96	0.90	0.73	0.5	1.00	0.93	0.76	0.6	1.00	0.97	0.79	0.6	1.00	1.00	0.79	0.6
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	21	20	19	14.8
	kW	2.87	2.93	3.03	3.1	3.09	3.16	3.26	3.4	3.29	3.37	3.48	3.6	3.47	3.54	3.66	3.8	3.62	3.70	3.82	4.0	3.74	3.83	3.96	4.1
	Amps	13.3	13.5	13.9	14.3	14.2	14.5	14.9	15.4	15.2	15.5	16.0	16.5	16.1	16.5	17.0	17.5	17.1	17.4	17.9	18.6	18.0	18.3	18.9	19.5
	HI PR	257	276	292	304.1	288	310	327	341.2	327	352	372	388.1	373	401	424	442.0	420	452	477	497.3	464	499	527	549.4
	LO PR	111	118	128	136.8	117	124	136	144.5	121	129	141	150.2	128	136	148	157.8	134	142	155	165.4	138	147	161	171.1
	MBh	40.4	41.3	44.1	47.1	39.4	40.3	43.1	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	35.7	36.5	39.0	41.6	33.0	33.8	36.1	38.6
	S/T	0.86	0.81	0.66	0.5	0.89	0.84	0.68	0.5	0.92	0.86	0.70	0.5	0.95	0.89	0.72	0.5	0.98	0.92	0.75	0.6	0.99	0.93	0.76	0.6
	ΔT	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	15.4
kW	2.85	2.91	3.00	3.1	3.07	3.14	3.24	3.3	3.26	3.34	3.45	3.6	3.44	3.51	3.63	3.8	3.59	3.67	3.79	3.9	3.71	3.80	3.92	4.1	
Amps	13.2	13.4	13.8	14.2	14.1	14.4	14.8	15.2	15.1	15.4	15.9	16.4	16.0	16.4	16.8	17.4	16.9	17.3	17.8	18.4	17.8	18.2	18.7	19.4	
HI PR	254	273	289	301.1	285	307	324	337.9	324	349	368	384.3	369	397	420	437.6	415	447	472	492.3	459	494	522	544.0	
LO PR	110	117	127	135.5	116	123	134	143.1	120	128	140	148.7	126	134	147	156.2	132	141	154	163.7	137	146	159	169.4	
MBh	37.3	38.1	40.7	43.5	36.4	37.2	39.7	42.5	35.5	36.3	38.8	41.5	34.7	35.4	37.8	40.5	32.9	33.6	36.0	38.4	30.5	31.2	33.3	35.6	
S/T	0.83	0.78	0.64	0.5	0.86	0.81	0.66	0.5	0.88	0.83	0.68	0.5	0.91	0.86	0.70	0.5	0.95	0.89	0.72	0.5	0.96	0.90	0.73	0.5	
ΔT	25	24	21	17	25	24	21	17	25	24	21	17	26	24	21	17	25	24	21	17	24	23	20	15.7	
kW	2.78	2.84	2.93	3.0	2.99	3.06	3.16	3.3	3.18	3.25	3.36	3.5	3.35	3.43	3.54	3.7	3.49	3.57	3.69	3.8	3.62	3.70	3.82	4.0	
Amps	12.9	13.1	13.5	13.9	13.7	14.0	14.4	14.9	14.7	15.1	15.5	16.0	15.6	16.0	16.4	17.0	16.5	16.9	17.4	17.9	17.4	17.7	18.3	18.9	
HI PR	246	265	280	292.1	277	298	314	327.7	314	338	357	372.7	358	385	407	424.5	403	434	458	477.6	445	479	506	527.7	
LO PR	106	113	123	131.4	112	119	130	138.8	117	124	135	144.3	123	130	142	151.5	128	137	149	158.8	133	141	154	164.3	

85	MBh	42.3	43.1	45.2	48.2	41.3	42.1	44.1	47.1	40.3	39.9	41.8	44.6	38.2	39.0	40.8	43.5	36.3	37.0	38.8	41.3	33.6	34.3	35.9	38.3
	S/T	0.95	0.92	0.83	0.7	0.98	0.95	0.86	0.7	1.00	0.97	0.88	0.7	0.99	0.96	0.86	0.7	1.00	0.99	0.90	0.7	1.00	1.00	0.90	0.7
	ΔT	25	25	24	20	26	25	24	21	25	25	24	21	27	26	25	22	26	26	25	21	24	24	23	19.9
	kW	2.89	2.96	3.05	3.1	3.12	3.19	3.29	3.4	3.32	3.39	3.51	3.6	3.50	3.57	3.69	3.8	3.65	3.73	3.85	4.0	3.78	3.86	3.99	4.1
	Amps	13.4	13.6	14.0	14.5	14.3	14.6	15.0	15.5	15.3	15.7	16.1	16.7	16.3	16.6	17.1	17.7	17.2	17.6	18.1	18.7	18.1	18.5	19.1	19.7
	HI PR	259	279	294	307.2	291	313	330	344.7	331	356	376	392.0	377	405	428	446.4	424	456	482	502.2	468	504	532	554.9
	LO PR	112	119	130	138.2	118	126	137	146.0	123	130	142	151.7	129	137	150	159.4	135	144	157	167.0	140	149	162	172.8
	MBh	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.2	39.9	41.8	44.6	38.2	39.0	40.8	43.5	36.3	37.0	38.8	41.3	33.6	34.3	35.9	38.3
	S/T	0.90	0.87	0.79	0.6	0.94	0.90	0.82	0.7	0.96	0.93	0.84	0.7	0.99	0.96	0.86	0.7	1.00	0.99	0.90	0.7	1.00	1.00	0.90	0.7
	ΔT	26	26	24	21	27	26	25	21	27	27	26	25	27	26	25	22	26	26	25	21	24	24	23	19.9
kW	2.87	2.93	3.03	3.1	3.09	3.16	3.26	3.4	3.29	3.37	3.48	3.6	3.47	3.54	3.66	3.8	3.62	3.70	3.82	4.0	3.74	3.83	3.96	4.1	
Amps	13.3	13.5	13.9	14.3	14.2	14.5	14.9	15.4	15.2	15.5	16.0	16.5	16.1	16.5	17.0	17.5	17.1	17.4	17.9	18.6	18.0	18.3	18.9	19.5	
HI PR	257	276	292	304.1	288	310	327	341.2	327	352	372	388.1	373	401	424	442.0	420	452	477	497.3	464	499	527	549.4	
LO PR	111	118	128	136.8	117	124	136	144.5	121	129	141	150.2	128	136	148	157.8	134	142	155	165.4	138	147	161	171.1	
MBh	37.9	38.6	40.5	43.2	37.0	37.7	39.5	42.2	36.2	36.9	38.6	41.2	35.3	36.0	37.7	40.2	33.5	34.2	35.8	38.2	31.0	31.6	33.1	35.4	
S/T	0.87	0.84	0.76	0.6	0.90	0.87	0.79	0.6	0.93	0.89	0.81	0.7	0.96	0.92	0.83	0.7	0.99	0.96	0.87	0.7	1.00	0.97	0.87	0.7	
ΔT	27	26	25	21	27	27	25	22	27	27	25	22	27	27	25	22	27	26	25	22	25	25	23	20.2	
kW	2.80	2.86	2.95	3.0	3.02	3.08	3.18	3.3	3.21	3.28	3.39	3.5	3.38	3.45	3.57	3.7	3.52	3.60	3.72	3.9	3.65	3.73	3.86	4.0	
Amps	13.0	13.2	13.6	14.0	13.8	14.1	14.5	15.0	14.9	15.2	15.6	16.1	15.7	16.1	16.6	17.1	16.6	17.0	17.5	18.1	17.5	17.9	18.4	19.1	
HI PR	249	268	283	295.0	279	301	317	331.0	318	342	361	376.5	362	389	411	428.8	407	438	462	482.4	450	484	511	532.9	
LO PR	107	114	125	132.7	113	121	132	140.2	118	125	137	145.7	124	132	144	153.1	130	138	151	160.4	134	143	156	165.9	

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

EXPANDED COOLING DATA — GPH1448M41A**

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	47.0	48.8	53.4	-	45.9	47.6	52.2	-	44.8	46.5	50.9	-	43.8	45.4	49.7	-	41.6	43.1	47.2	-	38.5	39.9	43.7	-
	S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
	kW	3.22	3.29	3.40	-	3.47	3.55	3.66	-	3.69	3.77	3.90	-	3.89	3.97	4.10	-	4.05	4.14	4.28	-	4.19	4.29	4.43	-
	Amps	13.6	13.9	14.3	-	14.6	14.9	15.3	-	15.7	16.1	16.5	-	16.7	17.1	17.6	-	17.7	18.1	18.6	-	18.6	19.1	19.7	-
	HI PR	250	269	284	-	280	301	318	-	318	343	362	-	363	390	412	-	408	439	464	-	451	485	512	-
	LO PR	111	118	129	-	117	124	136	-	122	129	141	-	128	136	148	-	134	142	155	-	138	147	161	-
	MBh	45.7	47.3	51.9	-	44.6	46.2	50.7	-	43.5	45.1	49.4	-	42.5	44.0	48.2	-	40.4	41.8	45.8	-	37.4	38.7	42.5	-
	S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-
	ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-
	kW	3.12	3.19	3.29	-	3.36	3.43	3.54	-	3.57	3.65	3.77	-	3.76	3.84	3.97	-	3.92	4.00	4.14	-	4.05	4.14	4.28	-
	Amps	13.2	13.5	13.8	-	14.1	14.4	14.8	-	15.2	15.5	16.0	-	16.1	16.5	17.0	-	17.1	17.5	18.0	-	18.0	18.4	19.0	-
HI PR	240	258	272	-	269	289	306	-	306	329	348	-	348	375	396	-	392	422	445	-	433	466	492	-	
LO PR	106	113	123	-	112	120	130	-	117	124	136	-	123	130	142	-	129	137	149	-	133	141	154	-	

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
75	MBh	47.8	49.2	53.3	57.2	46.7	48.1	52.1	55.9	45.6	47.0	50.8	54.6	44.5	45.8	49.6	53.2	42.3	43.5	47.1	50.6	39.2	40.3	43.6	46.8
	S/T	0.86	0.77	0.58	0.4	0.89	0.80	0.61	0.4	0.92	0.82	0.62	0.4	0.95	0.85	0.64	0.4	0.98	0.88	0.66	0.4	0.99	0.89	0.67	0.4
	ΔT	21	19	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10.3
	kW	3.25	3.32	3.42	3.5	3.50	3.58	3.69	3.8	3.72	3.81	3.93	4.1	3.92	4.01	4.14	4.3	4.09	4.18	4.32	4.5	4.23	4.33	4.47	4.6
	Amps	13.7	14.0	14.4	14.9	14.7	15.0	15.5	16.0	15.9	16.2	16.7	17.3	16.8	17.2	17.7	18.4	17.8	18.2	18.8	19.5	18.8	19.2	19.8	20.5
	HI PR	252	271	286	298.8	283	304	321	335.3	322	346	366	381.3	366	394	416	434.3	412	444	468	488.5	455	490	518	539.8
	LO PR	112	119	130	138.3	118	126	137	146.2	123	131	143	151.9	129	137	150	159.6	135	144	157	167.2	140	149	162	173.0
	MBh	46.4	47.8	51.8	55.5	45.4	46.7	50.6	54.3	44.3	45.6	49.3	53.0	43.2	44.5	48.1	51.7	41.0	42.3	45.7	49.1	38.0	39.1	42.4	45.5
	S/T	0.82	0.74	0.56	0.4	0.85	0.76	0.58	0.4	0.87	0.78	0.59	0.4	0.90	0.81	0.61	0.4	0.94	0.84	0.63	0.4	0.94	0.84	0.64	0.4
	ΔT	22	20	17	11	22	20	17	12	22	20	17	12	22	20	17	12	22	20	17	12	21	19	16	10.7
	kW	3.22	3.29	3.40	3.5	3.47	3.55	3.66	3.8	3.69	3.77	3.90	4.0	3.89	3.97	4.11	4.2	4.05	4.14	4.28	4.4	4.20	4.29	4.43	4.6
	Amps	13.6	13.9	14.3	14.8	14.6	14.9	15.3	15.9	15.7	16.1	16.6	17.1	16.7	17.1	17.6	18.2	17.7	18.1	18.6	19.3	18.6	19.1	19.7	20.4
HI PR	250	269	284	295.8	280	301	318	331.9	319	343	362	377.5	363	390	412	430.0	408	439	464	483.7	451	485	512	534.4	
LO PR	111	118	129	137.0	117	124	136	144.7	122	129	141	150.4	128	136	148	158.0	134	142	155	165.6	138	147	161	171.2	
MBh	42.9	44.1	47.8	51.3	41.9	43.1	46.7	50.1	40.9	42.1	45.5	48.9	39.9	41.1	44.4	47.7	37.9	39.0	42.2	45.3	35.1	36.1	39.1	42.0	
S/T	0.79	0.71	0.54	0.3	0.82	0.74	0.56	0.4	0.84	0.75	0.57	0.4	0.87	0.78	0.59	0.4	0.90	0.81	0.61	0.4	0.91	0.81	0.62	0.4	
ΔT	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	10.9	
kW	3.15	3.21	3.31	3.4	3.39	3.46	3.57	3.7	3.60	3.68	3.80	3.9	3.79	3.87	4.00	4.1	3.95	4.04	4.17	4.3	4.09	4.18	4.32	4.5	
Amps	13.3	13.6	14.0	14.4	14.2	14.5	15.0	15.5	15.3	15.7	16.1	16.7	16.3	16.6	17.1	17.7	17.2	17.6	18.2	18.8	18.2	18.6	19.2	19.8	
HI PR	242	261	275	286.9	272	292	309	322.0	309	332	351	366.2	352	379	400	417.1	396	426	450	469.2	437	471	497	518.4	
LO PR	107	114	125	132.9	113	121	132	140.4	118	125	137	145.9	124	132	144	153.2	130	138	151	160.6	134	143	156	166.1	

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

EXPANDED COOLING DATA — GPH1448M41A** (CONT.)

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
80	MBh	48.7	49.7	53.1	56.8	47.6	48.6	51.9	55.5	46.4	47.4	50.7	54.2	45.3	46.3	49.4	52.9	43.0	44.0	47.0	50.2	39.9	40.7	43.5	46.5
	S/T	0.95	0.89	0.72	0.5	1.00	0.92	0.75	0.6	1.00	0.94	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.82	0.6	1.00	1.00	0.83	0.6
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	23	24	20	16	22	22	20	16	20	21	18	14.7
	kW	3.27	3.34	3.45	3.6	3.53	3.61	3.72	3.8	3.75	3.84	3.96	4.1	3.95	4.04	4.17	4.3	4.12	4.21	4.35	4.5	4.27	4.36	4.51	4.7
	Amps	13.8	14.1	14.5	15.0	14.8	15.2	15.6	16.1	16.0	16.3	16.8	17.4	17.0	17.4	17.9	18.5	18.0	18.4	19.0	19.6	19.0	19.4	20.0	20.7
	HI PR	255	274	289	301.8	286	307	325	338.6	325	350	369	385.1	370	398	421	438.6	416	448	473	493.5	460	495	523	545.2
	LO PR	113	120	131	139.7	119	127	139	147.6	124	132	144	153.4	130	139	151	161.2	137	145	159	168.9	141	150	164	174.7
	MBh	47.3	48.3	51.6	55.2	46.2	47.2	50.4	53.9	45.1	46.1	49.2	52.6	44.0	44.9	48.0	51.3	41.8	42.7	45.6	48.7	38.7	39.5	42.2	45.2
	S/T	0.90	0.85	0.69	0.5	0.93	0.88	0.71	0.5	0.96	0.90	0.73	0.5	0.99	0.93	0.76	0.6	1.00	0.96	0.78	0.6	1.00	0.97	0.79	0.6
	ΔT	25	23	20	16	25	24	21	17	25	24	21	17	25	24	21	17	24	24	21	16	22	22	19	15.3
kW	3.25	3.32	3.42	3.5	3.50	3.58	3.69	3.8	3.72	3.81	3.93	4.1	3.92	4.01	4.14	4.3	4.09	4.18	4.32	4.5	4.23	4.33	4.47	4.6	
Amps	13.7	14.0	14.4	14.9	14.7	15.0	15.5	16.0	15.9	16.2	16.7	17.3	16.8	17.2	17.7	18.4	17.8	18.2	18.8	19.5	18.8	19.2	19.8	20.5	
HI PR	252	271	286	298.8	283	304	321	335.3	322	346	366	381.3	366	394	416	434.3	412	444	468	488.6	455	490	518	539.8	
LO PR	112	119	130	138.3	118	126	137	146.2	123	131	143	151.9	129	137	150	159.6	135	144	157	167.2	140	149	162	173.0	
MBh	43.6	44.6	47.6	50.9	42.6	43.5	46.5	49.7	41.6	42.5	45.4	48.5	40.6	41.5	44.3	47.4	38.6	39.4	42.1	45.0	35.7	36.5	39.0	41.7	
S/T	0.87	0.82	0.66	0.5	0.90	0.85	0.69	0.5	0.92	0.87	0.71	0.5	0.95	0.89	0.73	0.5	0.99	0.93	0.76	0.6	1.00	0.94	0.76	0.6	
ΔT	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	20	15.6	
kW	3.17	3.24	3.34	3.4	3.42	3.49	3.60	3.7	3.63	3.71	3.83	4.0	3.82	3.91	4.04	4.2	3.98	4.07	4.21	4.4	4.12	4.22	4.36	4.5	
Amps	13.4	13.7	14.1	14.5	14.3	14.7	15.1	15.6	15.5	15.8	16.3	16.8	16.4	16.8	17.3	17.9	17.4	17.8	18.3	19.0	18.3	18.7	19.3	20.0	
HI PR	245	263	278	289.8	274	295	312	325.2	312	336	355	369.9	355	383	404	421.3	400	430	454	473.9	442	475	502	523.6	
LO PR	108	115	126	134.2	115	122	133	141.8	119	127	138	147.4	125	133	145	154.8	131	140	152	162.2	136	144	158	167.8	

85	MBh	49.5	50.5	52.9	56.4	48.4	49.3	51.7	55.1	47.2	48.1	50.4	53.8	46.1	47.0	49.2	52.5	43.8	44.6	46.7	49.9	40.5	41.3	43.3	46.2
	S/T	0.99	0.96	0.86	0.7	1.00	0.99	0.89	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.95	0.8	1.00	1.00	0.98	0.8	1.00	1.00	0.99	0.8
	ΔT	25	25	23	20	25	25	24	20	24	25	24	20	24	24	24	21	22	23	23	20	21	21	22	19.0
	kW	3.30	3.37	3.48	3.6	3.56	3.64	3.75	3.9	3.79	3.87	4.00	4.1	3.99	4.07	4.21	4.4	4.16	4.25	4.39	4.5	4.30	4.40	4.55	4.7
	Amps	13.9	14.2	14.7	15.1	14.9	15.3	15.7	16.3	16.1	16.5	17.0	17.6	17.1	17.5	18.0	18.7	18.1	18.5	19.1	19.8	19.1	19.6	20.2	20.9
	HI PR	257	277	292	304.8	289	311	328	342.0	328	353	373	389.0	374	402	425	443.0	421	453	478	498.4	465	500	528	550.7
	LO PR	114	121	133	141.1	121	128	140	149.1	125	133	146	155.0	132	140	153	162.8	138	147	160	170.6	143	152	166	176.5
	MBh	48.1	49.0	51.3	54.8	47.0	47.9	50.1	53.5	45.9	46.7	49.0	52.2	44.7	45.6	47.8	51.0	42.5	43.3	45.4	48.4	39.4	40.1	42.0	44.8
	S/T	0.95	0.91	0.82	0.7	0.98	0.95	0.85	0.7	1.00	0.97	0.88	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.94	0.8	1.00	1.00	0.95	0.8
	ΔT	26	26	24	21	26	26	25	21	26	26	25	21	26	26	25	21	24	25	24	21	23	23	23	19.8
kW	3.27	3.34	3.45	3.6	3.53	3.61	3.72	3.8	3.75	3.84	3.96	4.1	3.95	4.04	4.17	4.3	4.12	4.21	4.35	4.5	4.27	4.36	4.51	4.7	
Amps	13.8	14.1	14.5	15.0	14.8	15.2	15.6	16.1	16.0	16.3	16.8	17.4	17.0	17.4	17.9	18.5	18.0	18.4	19.0	19.6	19.0	19.4	20.0	20.7	
HI PR	255	274	289	301.8	286	307	325	338.6	325	350	369	385.1	370	398	421	438.6	416	448	473	493.5	460	495	523	545.2	
LO PR	113	120	131	139.7	119	127	139	147.6	124	132	144	153.4	130	139	151	161.2	137	145	159	168.9	141	150	164	174.7	
MBh	44.4	45.2	47.4	50.6	43.4	44.2	46.3	49.4	42.3	43.1	45.2	48.2	41.3	42.1	44.1	47.0	39.2	40.0	41.9	44.7	36.3	37.0	38.8	41.4	
S/T	0.91	0.88	0.79	0.6	0.95	0.91	0.82	0.7	0.97	0.94	0.84	0.7	1.00	0.97	0.87	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.91	0.7	
ΔT	27	26	25	21	27	26	25	22	27	26	25	22	27	27	25	22	26	26	25	22	24	24	23	20.1	
kW	3.20	3.26	3.37	3.5	3.44	3.52	3.63	3.8	3.66	3.74	3.86	4.0	3.85	3.94	4.07	4.2	4.02	4.11	4.24	4.4	4.16	4.25	4.39	4.5	
Amps	13.5	13.8	14.2	14.7	14.5	14.8	15.2	15.7	15.6	15.9	16.4	17.0	16.6	16.9	17.4	18.0	17.5	17.9	18.5	19.1	18.5	18.9	19.5	20.2	
HI PR	247	266	281	292.7	277	298	315	328.5	315	339	358	373.6	359	386	408	425.5	404	435	459	478.7	446	480	507	528.9	
LO PR	110	117	127	135.5	116	123	134	143.2	120	128	140	148.8	126	134	147	156.3	132	141	154	163.8	137	146	159	169.5	

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

EXPANDED COOLING DATA — GPH1460M41A** — 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	56.8	58.9	64.5	-	55.5	57.5	63.0	-	54.2	56.2	61.5	-	52.9	54.8	60.0	-	50.2	52.1	57.0	-	46.5	48.2	52.8	-
	S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.49	-
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
	kW	4.07	4.16	4.29	-	4.39	4.49	4.64	-	4.68	4.78	4.94	-	4.93	5.04	5.21	-	5.15	5.26	5.44	-	5.33	5.45	5.64	-
	Amps	6.2	6.6	7.2	-	7.6	8.0	8.6	-	9.1	9.6	10.2	-	10.4	10.9	11.6	-	11.7	12.3	13.0	-	13.1	13.6	14.4	-
	HI PR	258	277	293	-	289	311	329	-	329	354	374	-	375	403	426	-	421	453	479	-	466	501	529	-
	LO PR	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-	134	143	156	-
	MBh	55.2	57.2	62.7	-	53.9	55.9	61.2	-	52.6	54.5	59.7	-	51.3	53.2	58.3	-	48.8	50.5	55.4	-	45.2	46.8	51.3	-
	S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-
	ΔT	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-
	kW	4.04	4.12	4.26	-	4.36	4.45	4.60	-	4.64	4.74	4.90	-	4.89	5.00	5.17	-	5.10	5.22	5.40	-	5.28	5.41	5.59	-
	Amps	6.1	6.5	7.0	-	7.4	7.8	8.4	-	8.9	9.4	10.0	-	10.2	10.7	11.4	-	11.5	12.1	12.8	-	12.8	13.4	14.2	-
HI PR	255	275	290	-	286	308	325	-	326	350	370	-	371	399	421	-	417	449	474	-	461	496	524	-	
LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-	
MBh	50.9	52.8	57.8	-	49.7	51.6	56.5	-	48.6	50.3	55.1	-	47.4	49.1	53.8	-	45.0	46.7	51.1	-	41.7	43.2	47.3	-	
S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.77	0.64	0.45	-	
ΔT	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	
kW	3.94	4.02	4.15	-	4.25	4.34	4.48	-	4.52	4.62	4.78	-	4.76	4.87	5.04	-	4.97	5.08	5.26	-	5.15	5.27	5.45	-	
Amps	5.7	6.0	6.6	-	6.9	7.3	7.9	-	8.4	8.9	9.5	-	9.7	10.2	10.8	-	10.9	11.5	12.2	-	12.2	12.8	13.5	-	
HI PR	247	266	281	-	278	299	316	-	316	340	359	-	360	387	409	-	405	435	460	-	447	481	508	-	
LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-	

75	MBh	57.8	59.5	64.4	69.1	56.5	58.1	62.9	67.5	55.1	56.7	61.4	65.9	53.8	55.4	59.9	64.3	51.1	52.6	56.9	61.1	47.3	48.7	52.7	56.6
	S/T	0.83	0.74	0.56	0.4	0.86	0.77	0.58	0.4	0.88	0.79	0.60	0.4	0.91	0.81	0.62	0.4	0.94	0.85	0.64	0.4	0.95	0.85	0.65	0.4
	ΔT	21	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10.4
	kW	4.10	4.19	4.33	4.5	4.43	4.53	4.68	4.8	4.72	4.83	4.99	5.2	4.97	5.09	5.26	5.4	5.19	5.31	5.49	5.7	5.38	5.50	5.69	5.9
	Amps	6.4	6.8	7.3	8.0	7.7	8.2	8.8	9.5	9.3	9.8	10.4	11.2	10.6	11.1	11.8	12.7	12.0	12.5	13.3	14.2	13.3	13.9	14.7	15.6
	HI PR	260	280	296	308.5	292	314	332	346.2	332	357	378	393.7	378	407	430	448.4	426	458	484	504.5	470	506	534	557.4
	LO PR	108	115	126	133.9	114	122	133	141.4	119	126	138	147.0	125	133	145	154.4	131	139	152	161.8	135	144	157	167.4
	MBh	56.1	57.8	62.5	67.1	54.8	56.4	61.1	65.6	53.5	55.1	59.6	64.0	52.2	53.7	58.2	62.4	49.6	51.1	55.3	59.3	45.9	47.3	51.2	54.9
	S/T	0.79	0.71	0.54	0.3	0.82	0.73	0.56	0.4	0.84	0.75	0.57	0.4	0.87	0.78	0.59	0.4	0.90	0.81	0.61	0.4	0.91	0.81	0.62	0.4
	ΔT	22	20	17	11	22	21	17	12	22	21	17	12	23	21	17	12	22	20	17	12	21	19	16	10.8
	kW	4.07	4.16	4.29	4.4	4.39	4.49	4.64	4.8	4.68	4.79	4.95	5.1	4.93	5.04	5.21	5.4	5.15	5.26	5.44	5.6	5.33	5.45	5.64	5.8
	Amps	6.3	6.6	7.2	7.8	7.6	8.0	8.6	9.3	9.1	9.6	10.2	11.0	10.4	10.9	11.6	12.5	11.8	12.3	13.0	13.9	13.1	13.6	14.4	15.4
HI PR	258	277	293	305.5	289	311	329	342.8	329	354	374	389.8	375	403	426	444.0	421	454	479	499.5	466	501	529	551.9	
LO PR	107	114	124	132.5	113	120	131	140.0	118	125	137	145.5	124	131	144	152.9	130	138	150	160.2	134	143	156	165.7	
MBh	51.8	53.3	57.7	62.0	50.6	52.1	56.4	60.5	49.4	50.8	55.0	59.1	48.2	49.6	53.7	57.6	45.8	47.1	51.0	54.7	42.4	43.7	47.3	50.7	
S/T	0.76	0.68	0.52	0.3	0.79	0.71	0.54	0.3	0.81	0.73	0.55	0.4	0.84	0.75	0.57	0.4	0.87	0.78	0.59	0.4	0.88	0.78	0.59	0.4	
ΔT	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11.0	
kW	3.97	4.06	4.19	4.3	4.28	4.38	4.52	4.7	4.56	4.66	4.82	5.0	4.81	4.91	5.08	5.3	5.01	5.13	5.30	5.5	5.19	5.31	5.49	5.7	
Amps	5.8	6.2	6.7	7.3	7.1	7.5	8.1	8.8	8.6	9.0	9.7	10.4	9.9	10.4	11.0	11.8	11.1	11.7	12.4	13.3	12.4	13.0	13.7	14.7	
HI PR	250	269	284	296.3	281	302	319	332.5	319	343	363	378.1	363	391	413	430.7	409	440	465	484.5	452	486	513	535.3	
LO PR	104	111	121	128.6	110	117	128	135.8	114	121	133	141.2	120	128	139	148.3	126	134	146	155.4	130	138	151	160.8	

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

EXPANDED COOLING DATA — GPH1460M41A** — HIGH STAGE (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB TEMPERATURE											
		65°F				75°F				85°F				95°F				105°F				115°F			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	58.8	60.1	64.2	68.7	57.5	58.7	62.7	67.1	56.1	57.3	61.2	65.5	54.7	55.9	59.7	63.9	52.0	53.1	56.8	60.7	48.2	49.2	52.6	56.2
	S/T	0.91	0.85	0.69	0.5	0.94	0.88	0.72	0.5	0.97	0.91	0.74	0.6	1.00	0.94	0.76	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.80	0.6
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	22	19	14.8
	kW	4.14	4.23	4.37	4.5	4.47	4.57	4.72	4.9	4.76	4.87	5.03	5.2	5.02	5.13	5.31	5.5	5.24	5.36	5.54	5.7	5.42	5.55	5.74	5.9
	Amps	6.5	6.9	7.5	8.2	7.9	8.3	8.9	9.7	9.5	9.9	10.6	11.4	10.8	11.3	12.0	12.9	12.2	12.7	13.5	14.4	13.5	14.1	14.9	15.9
	HI PR	263	283	299	311.6	295	318	335	349.7	336	361	381	397.7	382	411	434	453.0	430	463	489	509.6	475	511	540	563.0
	LO PR	109	116	127	135.2	116	123	134	142.9	120	128	139	148.5	126	134	146	156.0	132	141	153	163.5	137	145	159	169.1
	MBh	57.1	58.4	62.4	66.7	55.8	57.0	60.9	65.1	54.5	55.6	59.5	63.6	53.1	54.3	58.0	62.0	50.5	51.6	55.1	58.9	46.8	47.8	51.0	54.6
	S/T	0.87	0.81	0.66	0.5	0.90	0.84	0.69	0.5	0.92	0.87	0.70	0.5	0.95	0.89	0.73	0.5	0.99	0.93	0.75	0.6	1.00	0.93	0.76	0.6
	ΔT	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	15.4
kW	4.10	4.19	4.33	4.5	4.43	4.53	4.68	4.8	4.72	4.83	4.99	5.2	4.97	5.09	5.26	5.4	5.19	5.31	5.49	5.7	5.38	5.50	5.69	5.9	
Amps	6.4	6.8	7.3	8.0	7.7	8.2	8.8	9.5	9.3	9.8	10.4	11.2	10.6	11.1	11.8	12.7	12.0	12.5	13.3	14.2	13.3	13.9	14.7	15.6	
HI PR	260	280	296	308.6	292	314	332	346.2	332	358	378	393.8	378	407	430	448.5	426	458	484	504.6	470	506	534	557.5	
LO PR	108	115	126	133.9	114	122	133	141.5	119	126	138	147.0	125	133	145	154.4	131	139	152	161.8	135	144	157	167.4	
MBh	52.7	53.9	57.5	61.5	51.5	52.6	56.2	60.1	50.3	51.4	54.9	58.7	49.0	50.1	53.5	57.2	46.6	47.6	50.9	54.4	43.2	44.1	47.1	50.4	
S/T	0.84	0.79	0.64	0.5	0.87	0.81	0.66	0.5	0.89	0.83	0.68	0.5	0.92	0.86	0.70	0.5	0.95	0.89	0.73	0.5	0.96	0.90	0.73	0.5	
ΔT	25	24	21	17	25	24	21	17	25	24	21	17	26	24	21	17	25	24	21	17	24	23	20	15.7	
kW	4.00	4.09	4.22	4.4	4.32	4.42	4.56	4.7	4.60	4.70	4.86	5.0	4.85	4.96	5.12	5.3	5.06	5.17	5.35	5.5	5.24	5.36	5.54	5.7	
Amps	6.0	6.3	6.9	7.5	7.3	7.7	8.3	8.9	8.8	9.2	9.9	10.6	10.0	10.5	11.2	12.0	11.3	11.9	12.6	13.5	12.6	13.2	14.0	14.9	
HI PR	253	272	287	299.3	283	305	322	335.8	322	347	366	382.0	367	395	417	435.0	413	444	469	489.4	456	491	518	540.7	
LO PR	105	112	122	129.9	111	118	129	137.2	115	123	134	142.6	121	129	141	149.8	127	135	147	157.0	131	140	152	162.4	

85	MBh	59.9	61.0	63.9	68.2	58.5	59.6	62.4	66.6	57.1	58.2	60.9	65.0	55.7	56.8	59.4	63.4	52.9	53.9	56.5	60.2	49.0	49.9	52.3	55.8
	S/T	0.95	0.92	0.83	0.7	0.99	0.95	0.86	0.7	1.00	0.98	0.88	0.7	1.00	1.00	0.91	0.7	1.00	1.00	0.95	0.8	1.00	1.00	0.95	0.8
	ΔT	25	25	23	20	26	25	24	21	25	25	24	21	25	25	24	21	23	24	24	20	22	22	22	19.1
	kW	4.17	4.26	4.40	4.6	4.51	4.61	4.76	4.9	4.80	4.91	5.07	5.2	5.06	5.18	5.35	5.5	5.28	5.40	5.59	5.8	5.47	5.60	5.79	6.0
	Amps	6.7	7.1	7.7	8.3	8.1	8.5	9.1	9.8	9.6	10.1	10.8	11.6	11.0	11.5	12.2	13.1	12.4	12.9	13.7	14.6	13.7	14.3	15.1	16.1
	HI PR	266	286	302	314.8	298	321	339	353.2	339	365	385	401.7	386	415	439	457.5	434	467	493	514.7	480	516	545	568.7
	LO PR	110	117	128	136.6	117	124	135	144.3	121	129	141	150.0	127	135	148	157.5	133	142	155	165.1	138	147	160	170.8
	MBh	58.1	59.2	62.0	66.2	56.8	57.9	60.6	64.6	55.4	56.5	59.2	63.1	54.1	55.1	57.7	61.6	51.4	52.3	54.8	58.5	47.6	48.5	50.8	54.2
	S/T	0.91	0.88	0.79	0.6	0.94	0.91	0.82	0.7	0.97	0.93	0.84	0.7	1.00	0.96	0.87	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.91	0.7
	ΔT	26	26	24	21	27	26	25	21	27	26	25	21	27	26	25	22	26	26	25	21	24	24	23	19.9
kW	4.14	4.23	4.37	4.5	4.47	4.57	4.72	4.9	4.76	4.87	5.03	5.2	5.02	5.13	5.31	5.5	5.24	5.36	5.54	5.7	5.42	5.55	5.74	5.9	
Amps	6.5	6.9	7.5	8.2	7.9	8.3	8.9	9.7	9.5	9.9	10.6	11.4	10.8	11.3	12.0	12.9	12.2	12.7	13.5	14.4	13.5	14.1	14.9	15.9	
HI PR	263	283	299	311.6	295	318	335	349.7	336	361	381	397.7	382	411	434	453.0	430	463	489	509.6	475	511	540	563.0	
LO PR	109	116	127	135.2	116	123	134	142.9	120	128	139	148.5	126	134	146	156.0	132	141	153	163.5	137	145	159	169.1	
MBh	53.6	54.7	57.3	61.1	52.4	53.4	55.9	59.7	51.1	52.1	54.6	58.2	49.9	50.9	53.3	56.8	47.4	48.3	50.6	54.0	43.9	44.8	46.9	50.0	
S/T	0.88	0.85	0.76	0.6	0.91	0.88	0.79	0.6	0.93	0.90	0.81	0.7	0.96	0.93	0.84	0.7	1.00	0.96	0.87	0.7	1.00	0.97	0.88	0.7	
ΔT	27	26	25	21	27	27	25	22	27	27	25	22	27	27	25	22	27	26	25	22	25	25	23	20.2	
kW	4.04	4.12	4.26	4.4	4.36	4.45	4.60	4.8	4.64	4.74	4.90	5.1	4.89	5.00	5.17	5.3	5.10	5.22	5.39	5.6	5.28	5.41	5.59	5.8	
Amps	6.1	6.5	7.0	7.7	7.4	7.8	8.4	9.1	8.9	9.4	10.0	10.8	10.2	10.7	11.4	12.2	11.5	12.1	12.8	13.7	12.8	13.4	14.2	15.1	
HI PR	255	274	290	302.3	286	308	325	339.2	325	350	370	385.8	371	399	421	439.4	417	449	474	494.3	461	496	524	546.2	
LO PR	106	113	123	131.2	112	119	130	138.6	116	124	135	144.0	122	130	142	151.3	128	136	149	158.6	133	141	154	164.0	

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

EXPANDED HEATING DATA

GPH1424M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.9	27.4	25.8	24.1	23.0	22.3	20.7	19.1	15.7	14.5	13.3	12.6	12.1	10.9	9.7	8.4	7.2	5.9
T/R	31.5	29.8	28.1	26.2	25.1	24.3	22.5	20.8	17.1	15.8	14.5	13.7	13.2	11.9	10.5	9.2	7.8	6.4
kW	1.90	1.87	1.83	1.79	1.77	1.75	1.72	1.68	1.70	1.66	1.62	1.60	1.58	1.55	1.51	1.47	1.43	1.39
Amps	10.1	9.4	8.9	8.5	8.2	8.1	7.7	7.4	7.1	6.9	6.6	6.5	6.4	6.1	5.8	5.6	5.2	4.8
COP	4.45	4.29	4.12	3.93	3.80	3.72	3.53	3.32	2.70	2.55	2.41	2.30	2.24	2.06	1.87	1.68	1.47	1.24
HI PR	377	361	347	332	324	318	306	293	281	269	258	252	247	238	229	219	211	204
LO PR	139	129	121	111	105	101	92	82	74	66	58	54	52	44	38	32	28	22

GPH1430M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	35.2	33.3	31.4	29.3	28.0	27.1	25.2	23.2	18.7	17.3	15.9	15.0	14.4	13.0	11.5	10.0	8.6	7.0
T/R	31.0	29.4	27.7	25.9	24.7	23.9	22.2	20.5	16.5	15.2	14.0	13.2	12.7	11.4	10.1	8.8	7.5	6.2
kW	2.36	2.31	2.26	2.21	2.19	2.17	2.12	2.07	2.05	2.00	1.95	1.93	1.91	1.86	1.81	1.77	1.72	1.67
Amps	5.6	5.4	5.1	4.9	4.8	4.8	4.6	4.5	4.3	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.5	3.4
COP	4.37	4.22	4.06	3.87	3.75	3.66	3.48	3.28	2.67	2.52	2.38	2.28	2.22	2.04	1.86	1.66	1.46	1.23
HI PR	385	370	355	340	332	325	313	300	288	275	264	257	253	243	234	224	216	209
LO PR	138	128	120	110	104	100	92	82	74	66	58	54	52	44	38	32	28	22

GPH1436M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	41.7	39.5	37.2	34.8	33.2	32.2	29.9	27.6	23.7	21.9	20.1	19.0	18.3	16.4	14.6	12.7	10.8	8.9
T/R	32.2	30.5	28.7	26.8	25.6	24.8	23.1	21.3	18.3	16.9	15.5	14.7	14.1	12.7	11.2	9.8	8.4	6.8
kW	2.76	2.71	2.66	2.60	2.57	2.55	2.49	2.44	2.53	2.47	2.41	2.38	2.36	2.30	2.24	2.18	2.13	2.07
Amps	7.0	6.6	6.4	6.1	6.0	5.9	5.7	5.5	5.4	5.2	5.1	5.0	5.0	4.9	4.7	4.5	4.4	4.2
COP	4.42	4.27	4.10	3.91	3.78	3.70	3.51	3.30	2.74	2.59	2.44	2.34	2.27	2.09	1.90	1.70	1.49	1.26
HI PR	391	375	361	345	337	330	318	305	292	279	268	261	257	247	237	228	220	212
LO PR	134	125	117	107	101	97	90	80	72	64	57	53	51	43	37	31	27	21

Notes

Above information is for nominal CFM and 70-degree indoor dry bulb. Instantaneous capacity listed.

High pressure is measured at the liquid line access fitting.

Amps: Unit amps (comp.+ evaporator motor + condenser fan motor)

Low pressure is measured at the compressor suction access fitting.

kW = Total system power

EXPANDED HEATING DATA (CONT.)

GPH1442M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	50.9	48.2	45.4	42.4	40.5	39.2	36.5	33.6	28.0	25.9	23.8	22.5	21.7	19.4	17.2	15.0	12.8	10.5
T/R	36.3	34.3	32.3	30.2	28.8	28.0	26.0	23.9	20.0	18.4	17.0	16.0	15.4	13.8	12.3	10.7	9.1	7.5
kW	3.49	3.42	3.35	3.28	3.24	3.21	3.15	3.08	3.00	2.93	2.86	2.82	2.79	2.72	2.65	2.58	2.51	2.45
Amps	18.9	17.7	16.7	15.8	15.3	15.0	14.3	13.7	13.2	12.7	12.2	11.9	11.8	11.3	10.6	10.1	9.5	8.8
COP	4.26	4.12	3.96	3.78	3.65	3.57	3.39	3.20	2.74	2.59	2.44	2.34	2.27	2.09	1.90	1.70	1.49	1.26
HI PR	406	389	374	358	349	343	329	316	303	289	278	271	266	256	246	236	228	220
LO PR	134	124	117	107	101	97	89	80	72	64	56	52	51	43	37	31	27	21

GPH1448M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	57.3	54.3	51.1	47.7	45.6	44.2	41.0	37.8	33.0	30.5	28.1	26.5	25.5	22.9	20.3	17.7	15.1	12.4
T/R	33.2	31.4	29.6	27.6	26.4	25.6	23.8	21.9	19.1	17.6	16.2	15.3	14.8	13.3	11.7	10.2	8.7	7.2
kW	3.87	3.79	3.71	3.64	3.59	3.56	3.49	3.41	3.41	3.33	3.25	3.21	3.18	3.10	3.02	2.94	2.86	2.79
Amps	19.0	17.7	16.7	15.8	15.3	15.0	14.2	13.6	13.1	12.5	12.0	11.8	11.6	11.1	10.5	10.0	9.3	8.5
COP	4.34	4.19	4.02	3.84	3.71	3.63	3.44	3.25	2.84	2.68	2.53	2.42	2.35	2.16	1.97	1.76	1.54	1.30
HI PR	387	371	356	341	333	326	314	301	289	276	265	258	254	244	235	225	217	209
LO PR	129	120	112	103	97	93	86	77	69	62	54	50	49	41	35	30	26	21

GPH1460M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	71.6	67.8	63.8	59.7	57.0	55.2	51.3	47.3	39.1	36.1	33.3	31.4	30.2	27.1	24.1	21.0	17.9	14.7
T/R	35.9	33.9	32.0	29.9	28.5	27.6	25.7	23.7	19.6	18.1	16.6	15.7	15.1	13.6	12.0	10.5	9.0	7.3
kW	5.06	4.96	4.85	4.75	4.69	4.65	4.55	4.44	4.10	4.00	3.91	3.85	3.81	3.72	3.62	3.53	3.43	3.34
Amps	30.1	27.1	24.6	22.5	21.2	20.6	18.8	17.3	16.0	14.8	13.6	13.0	12.7	11.4	9.9	8.7	7.2	5.3
COP	4.15	4.01	3.85	3.68	3.56	3.48	3.30	3.12	2.79	2.64	2.49	2.39	2.32	2.14	1.94	1.74	1.53	1.29
HI PR	426	409	393	376	367	360	346	332	318	304	292	285	280	269	259	248	239	231
LO PR	126	117	110	101	95	92	84	75	68	61	53	49	48	40	35	29	26	20

Notes

Above information is for nominal CFM and 70-degree indoor dry bulb. Instantaneous capacity listed.

High pressure is measured at the liquid line access fitting.

Amps: Unit amps (comp.+ evaporator motor + condenser fan motor)

Low pressure is measured at the compressor suction access fitting.

kW = Total system power

AIRFLOW DATA

GPH1424M41*

MODEL	MOTOR SPEED	VOLTS	E.S.P (IN. OF H ₂ O)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
HORIZONTAL POSITION	T1	230	CFM	782	709	652	561	---	---	---	---	---
			Watts	71	78	86	100	---	---	---	---	---
	T2/T3	230	CFM	941	872	777	746	614	---	---	---	---
			Watts	105	112	113	128	138	---	---	---	---
	T4/T5	230	CFM	1347	1315	1256	1194	1152	1096	1051	972	891
			Watts	239	256	265	271	282	286	293	297	305
DOWNSHOT POSITION	T1	230	CFM	790	710	634	566	506	---	---	---	---
			Watts	82	86	96	103	108	---	---	---	---
	T2/T3	230	CFM	919	855	782	695	631	578	523	---	---
			Watts	108	117	121	132	143	144	149	---	---
	T4/T5	230	CFM	1312	1275	1216	1153	1096	1028	943	869	816
			Watts	260	269	274	285	295	300	304	310	316

GPH1430M41*

MODEL	MOTOR SPEED	VOLTS	E.S.P (IN. OF H ₂ O)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
HORIZONTAL POSITION	T1	230	CFM	851	803	712	635	575	506	460	---	---
			Watts	79	88	91	100	114	116	120	---	---
	T2/T3	230	CFM	1146	1098	1044	991	934	817	764	698	653
			Watts	157	170	176	186	194	201	210	215	215
	T4/T5	230	CFM	1440	1418	1364	1307	1265	1219	1168	1094	1049
			Watts	290	306	312	321	326	332	348	353	360
DOWNSHOT POSITION	T1	230	CFM	848	761	646	578	511	---	---	---	---
			Watts	84	94	98	111	113	---	---	---	---
	T2/T3	230	CFM	1103	1038	978	922	806	731	676	622	564
			Watts	162	168	179	188	199	205	208	214	219
	T4/T5	230	CFM	1401	1357	1305	1244	1179	1118	1046	934	884
			Watts	311	326	318	334	341	349	353	352	357

GPH1436M41*

MODEL	MOTOR SPEED	VOLTS	E.S.P (IN. OF H ₂ O)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
HORIZONTAL POSITION	T1	230	CFM	846	762	716	585	519	---	---	---	---
			Watts	74	83	94	98	108	---	---	---	---
	T2/T3	230	CFM	1278	1214	1182	1129	1072	1013	950	853	788
			Watts	221	218	232	245	253	264	265	275	272
	T4/T5	230	CFM	1604	1560	1507	1468	1415	1364	1321	1276	1218
			Watts	396	402	408	424	426	423	444	454	454
DOWNSHOT POSITION	T1	230	CFM	809	730	623	542	485	441	---	---	---
			Watts	73	85	92	98	107	112	---	---	---
	T2/T3	230	CFM	1284	1223	1175	1097	1031	974	871	804	761
			Watts	220	227	241	247	255	262	272	277	285
	T4/T5	230	CFM	1578	1539	1498	1452	1396	1332	1279	1224	1161
			Watts	401	409	421	425	438	439	452	453	455

AIRFLOW DATA (CONT.)

GPH1442M41*

MODEL	MOTOR SPEED	VOLTS	E.S.P (IN. OF H ₂ O)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
HORIZONTAL POSITION	T1	230	CFM Watts	1030 130	955 126	908 139	826 143	761 154	678 168	633 171	563 181	504 185
	T2/T3	230	CFM Watts	1419 273	1387 281	1327 287	1274 298	1219 309	1171 315	1111 318	1041 326	986 336
	T4/T5	230	CFM Watts	1750 470	1710 475	1673 488	1611 493	1556 502	1499 502	1443 501	1399 514	1353 520
DOWNSHOT POSITION	T1	230	CFM Watts	1001 125	936 133	852 136	810 154	700 160	643 166	579 172	526 177	491 185
	T2/T3	230	CFM Watts	1411 281	1361 294	1299 301	1240 309	1173 312	1112 320	1048 327	955 335	887 339
	T4/T5	230	CFM Watts	1734 475	1678 485	1613 496	1558 504	1509 509	1449 505	1383 519	1341 514	1279 520

GPH1448M41*

MODEL	MOTOR SPEED	VOLTS	E.S.P (IN. OF H ₂ O)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
HORIZONTAL POSITION	T1	230	CFM Watts	1167 139	1101 144	1045 156	992 165	939 177	870 193	802 203	732 217	681 223
	T2/T3	230	CFM Watts	1723 372	1637 370	1598 381	1554 390	1509 404	1467 411	1420 420	1361 427	1295 441
	T4/T5	230	CFM Watts	2012 578	1965 593	1912 599	1871 606	1809 610	1770 627	1741 626	1691 634	1635 638
DOWNSHOT POSITION	T1	230	CFM Watts	1155 153	1074 156	1023 169	969 180	896 195	805 205	755 216	667 226	626 230
	T2/T3	230	CFM Watts	1670 383	1596 392	1558 399	1484 408	1467 419	1383 434	1339 436	1259 447	1168 449
	T4/T5	230	CFM Watts	1949 603	1881 607	1853 608	1792 616	1753 622	1699 626	1621 648	1561 650	1522 645

GPH1460M41*

MODEL	MOTOR SPEED	VOLTS	E.S.P (IN. OF H ₂ O)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
HORIZONTAL POSITION	T1	230	CFM Watts	1427 222	1370 229	1317 237	1273 256	1204 256	1165 276	1111 291	1058 299	1003 320
	T2/T3	230	CFM Watts	1935 498	1885 512	1848 515	1809 520	1755 541	1705 549	1659 559	1616 567	1567 569
	T4/T5	230	CFM Watts	2232 805	2188 795	2144 790	2087 827	2035 830	2017 842	1963 864	1926 864	1869 848
DOWNSHOT POSITION	T1	230	CFM Watts	1347 242	1293 251	1236 268	1184 276	1117 290	1054 305	996 321	934 330	871 348
	T2/T3	230	CFM Watts	1827 529	1780 538	1739 548	1683 557	1633 557	1588 576	1518 578	1462 604	1404 601
	T4/T5	230	CFM Watts	2111 835	2057 843	2030 846	1979 852	1947 870	1957 959	1922 956	1868 960	1818 966

HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

MODEL AND HEAT KIT USAGE	CIRCUIT #1		CIRCUIT #2		SINGLE-POINT KIT		ACTUAL kW / BTU@ 240V
	MCA ¹	MOD ²	MCA ¹	MOD ²	MCA ¹	MOP ²	
GPH1424M41**	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	47	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	58	60	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	71	80	9.5 / 32,400
GPH1430M41**	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	48	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	60	60	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	73	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	98	110	14.25 / 48,600
GPH1436M41**	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	51	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	63	70	7.0 / 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
GPH1442M41**	5.8	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	54	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	66	70	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	79	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	104	110	14.25 / 48,600
GPH1448M41**	5.8	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	59	70	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	71	80	7.0 / 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	133	150	19.0 / 64,800
GPH1460M41**	7.6	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	69	90	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	80	100	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	94	110	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	118	125	14.25 / 48,600
HKP-20C	43 / 49	45 / 50	43 / 49	45 / 50	142	150	19.0 / 64,800

¹ Minimum Circuit Ampacity @ 208 / 240 V

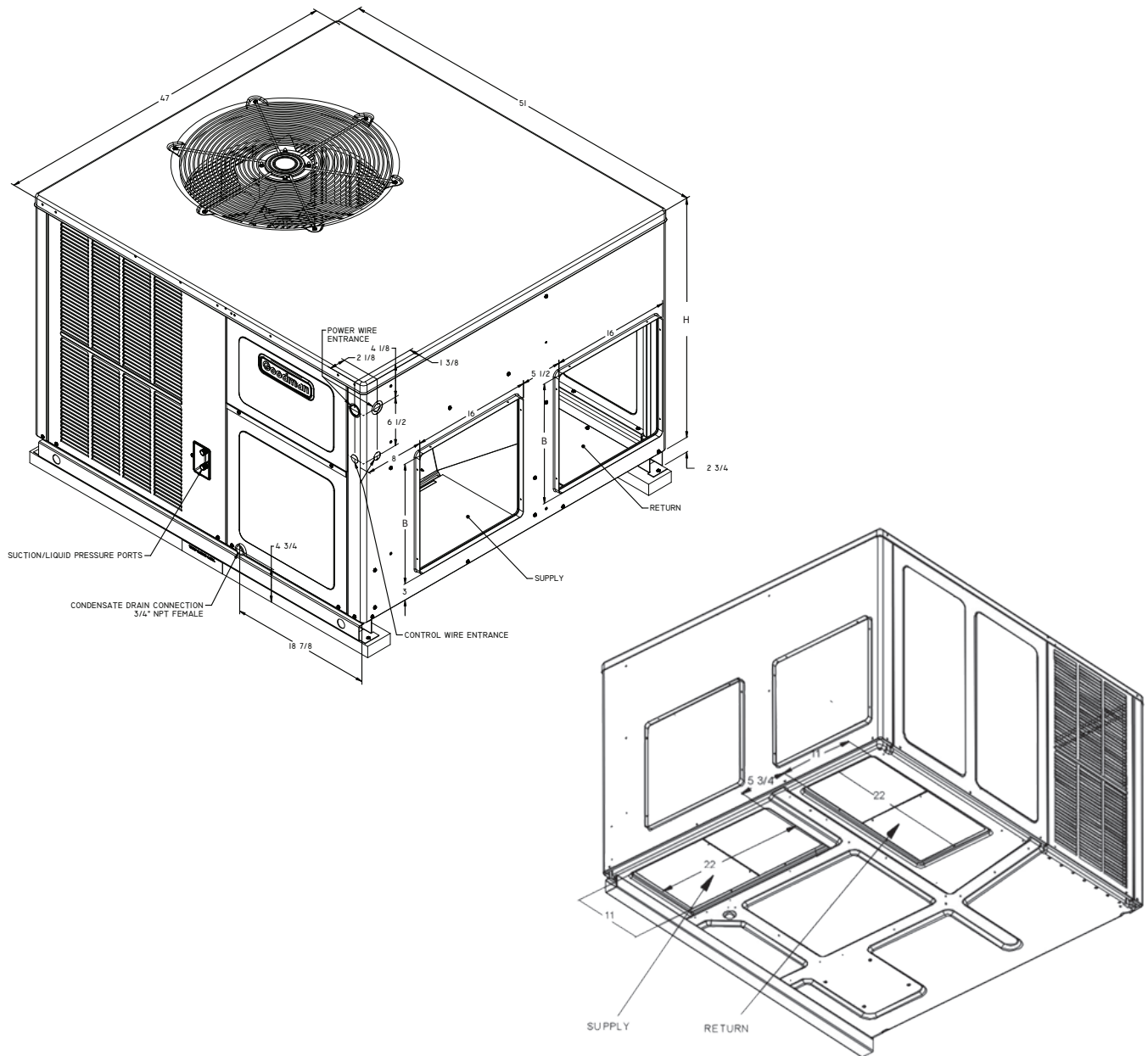
² Maximum Overcurrent Protection Device @ 208 / 240 V

* Revision level that may or may not be designated

C Circuit breaker option

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

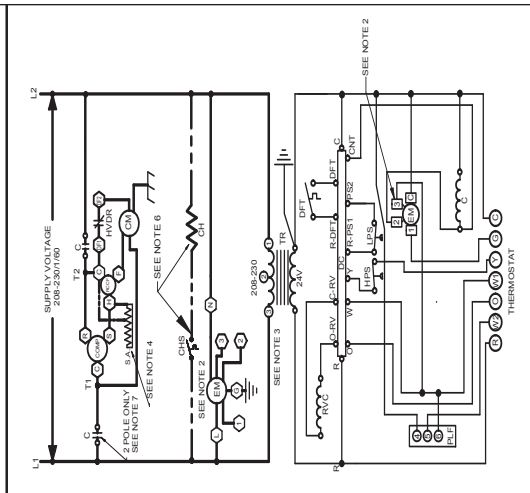
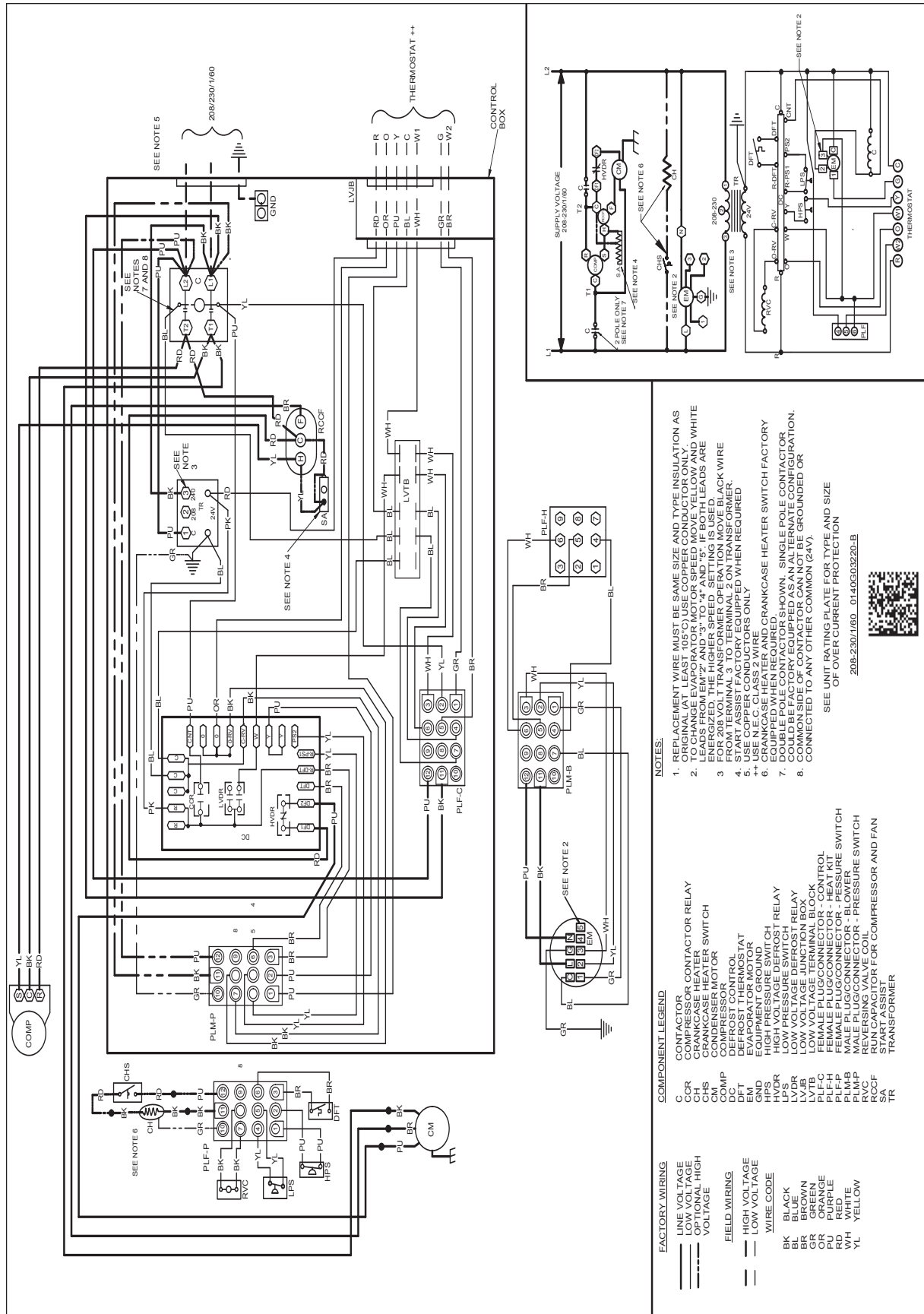
DIMENSIONS



MODEL	W"	D"	H"	CHASSIS SIZE
GPH1424M41	47	51	34 3/4	Med.
GPH1430M41	47	51	34 3/4	Med.
GPH1436M41	47	51	34 3/4	Med.
GPH1442M41	47	51	34 3/4	Med.
GPH1448M41	47	51	42 3/4	Large
GPH1460M41	47	51	42 3/4	Large

B	H
16"	32 1/2"
16"	32 1/2"
16"	32 1/2"
16"	32 1/2"
18"	40"
18"	40"

WIRING DIAGRAM — GPH14024M-048M41**



- NOTES:**
1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL WIRE.
 2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE YELLOW AND WHITE LEADS FROM EM² AND ³ TO ⁴ AND ⁵. IF BOTH LEADS ARE CONNECTED TO THE SAME TERMINAL THE MOTOR WILL OPERATE IN REVERSE.
 3. FOR 208VOLT TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
 4. START ASSIST FACTORY EQUIPPED WHEN REQUIRED.
 5. USE N.E.C. CLASS 2 WIRING.
 6. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED. SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION. COMMON SIDE OF CONTACTOR CAN NOT BE GROUNDED OR CONNECTED TO ANY OTHER COMMON (24V).
- SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION
208-230/160_01410G03220-B

COMPONENT LEGEND

C	CONTACTOR
CCR	COMPRESSOR RELAY
CHS	CRANKCASE HEATER SWITCH
CM	CONDENSER MOTOR
DC	DEFROST CONTROL
DC	DEFROST THERMOSTAT
EM	EVAPORATOR MOTOR
EM ¹	LOW PRESSURE SWITCH
EM ²	HIGH PRESSURE SWITCH
HVDR	HIGH VOLTAGE DEFROST RELAY
LVS	LOW VOLTAGE SWITCH RELAY
LVJB	LOW VOLTAGE JUNCTION BOX
LVTB	LOW VOLTAGE TERMINAL BLOCK
PLF-C	PLUG/CONNECTOR - HEAT KIT
PLF-F	FEMALE PLUG/CONNECTOR - PRESSURE SWITCH
PLM-B	MALE PLUG/CONNECTOR - BLOWER
PLM-P	MALE PLUG/CONNECTOR - PRESSURE SWITCH
RVC	REVERSING VALVE COIL
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN
SA	START ASSIST
TR	TRANSFORMER

FACTORY WIRING

---	LINE VOLTAGE
---	LOW VOLTAGE
---	HIGH VOLTAGE
---	VOLTAGE
---	FIELD WIRING
---	HIGH VOLTAGE
---	LOW VOLTAGE
---	WIRE CODE

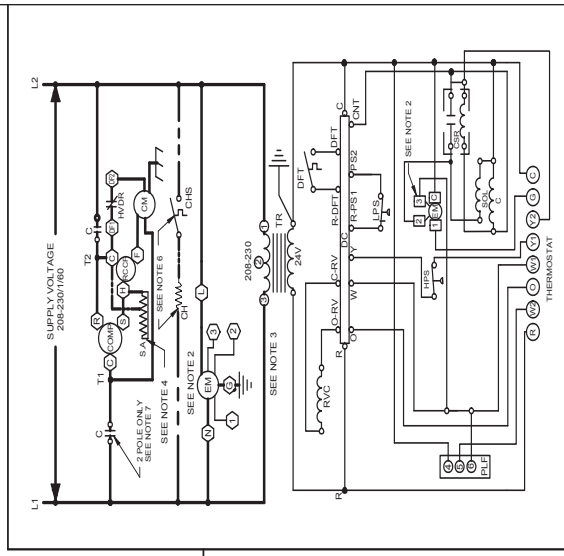
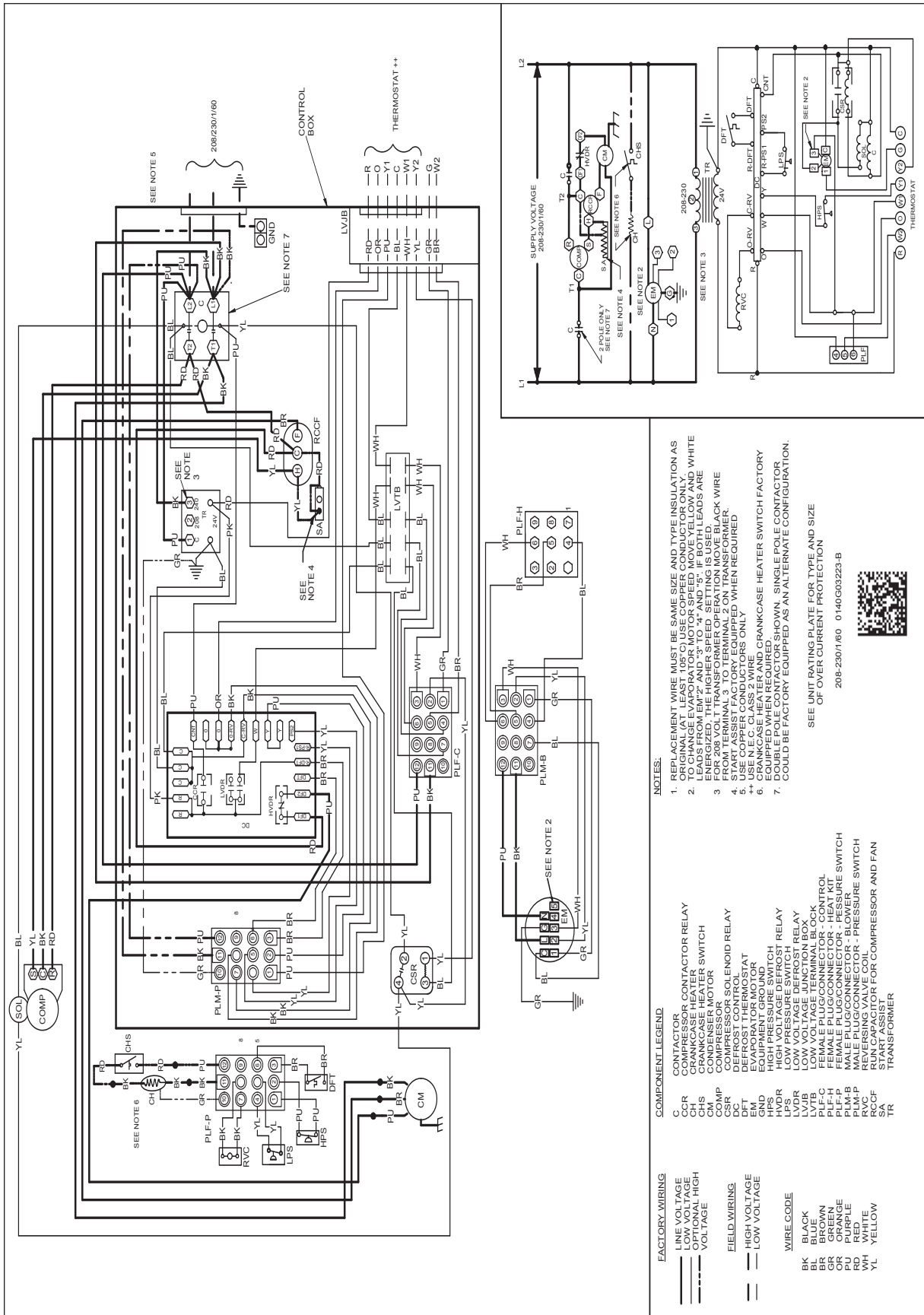
WIRE CODE

BK	BLACK
BR	BROWN
GR	GREEN
OR	ORANGE
PR	PURPLE
RD	RED
WH	WHITE
YL	YELLOW

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 DIAGRAM — GPH14060M41**



- NOTES:**
1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105° C USE COPPER CONDUCTOR ONLY)
 2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE YELLOW AND WHITE LEADS FROM THE LOWER SPEED TERMINALS TO THE HIGHER SPEED TERMINALS ON THE HIGHER SPEED WINDING BE USED.
 3. FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
 4. USE N.E.C. CLASS 2 WIRE
 5. USE COPPER CONDUCTORS ONLY
 6. EQUIPPED WHEN REQUIRED.
 7. COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.

COMPONENT LEGEND

C	CONTACTOR
CR	CRANKCASE HEATER SWITCH
CH	CRANKCASE HEATER SWITCH
CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CSR	COMPRESSOR SOLENOID RELAY
DEF	DEFROST CONTROL SWITCH
EM	EVAPORATOR MOTOR
GND	EQUIPMENT GROUND
HVDR	HIGH VOLTAGE DEFROST RELAY
LP	LOW PRESSURE SWITCH
LP-S	LOW PRESSURE SWITCH
LV	LOW VOLTAGE DEFROST RELAY
LVJB	LOW VOLTAGE JUNCTION BOX
LVTB	LOW VOLTAGE TERMINAL BLOCK
PLF-C	FEMALE PLUG/CONNECTOR - CONTROL
PLF-F	FEMALE PLUG/CONNECTOR - PRESSURE SWITCH
PLM-B	MALE PLUG/CONNECTOR - BLOWER
PLM-F	MALE PLUG/CONNECTOR - PRESSURE SWITCH
RVC	REVERSING VALVE COIL
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN
TA	TRANSFORMER
TR	TRANSFORMER

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION
208-230/1/60 0140G03223-B



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.

ACCESSORIES

ACCESSORY DESCRIPTION	ITEM NUMBER	
	MEDIUM CHASSIS	LARGE CHASSIS
Concentric Kit	CDK36	CDK4872
Downflow Economizer	GPH13MED102	GPH13MED103
Downflow Internal Filter Rack	GPH13MFR102	GPH13MFR103
Downflow Manual Damper	PGMDD101/102	PGMDD103
Downflow Motorized Damper	PGMDMD101/102	PGMDMD103
Downflow Square to Round	SQRPG101/102	SQRPG103
External Horizontal Filter Rack	GPGHFR101-103	GPGHFR101-103
Horizontal Duct Cover	20464501PDGK	20464502PDGK
Horizontal Economizer	PEHH101/102	PEHH103
Horizontal manual Damper	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH102	PGMDMH103
Horizontal Square to Round	SQRPGH101/102	SQRPGH103
Outdoor Thermostat & Emergency Heat Relay Kit	OT/EHR18-60	OT/EHR18-60
Outdoor Thermostat Kit w/ Lockout Stat	OT18-60A	OT18-60A
Roof Curb	PGC101/102/103	PGC101/102/103

SINGLE-POINT KIT ACCESSORY KITS

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

MODEL	SINGLE-POINT KIT
GPH1424M41**	SPK-30
GPH1430M41**	SPK-35
GPH1436M41**	SPK-40
GPH1443M41**	SPK-40
GPH1449M41**	SPK-50
GPH1460M41**	SPK-60