



Air Conditioning & Heating

GPH13M

PACKAGED HEAT PUMP

13 SEER / R-410A

2 TO 5 TONS

COOLING CAPACITY: 24,000 - 56,000 BTU/H

HEATING CAPACITY: 23,000 - 55,500 BTU/H

Standard Features

- Energy-efficient compressor with internal relief valve
- PSC blower motor; EEM blower motor on 4- & 5-ton units
- Convertible airflow — horizontal or downflow
- Copper tube/aluminum fin coils
- Totally enclosed, permanently lubricated condenser fan motor
- Fully charged R-410A system
- Electric heat kit available as a field-installed option

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



Contents

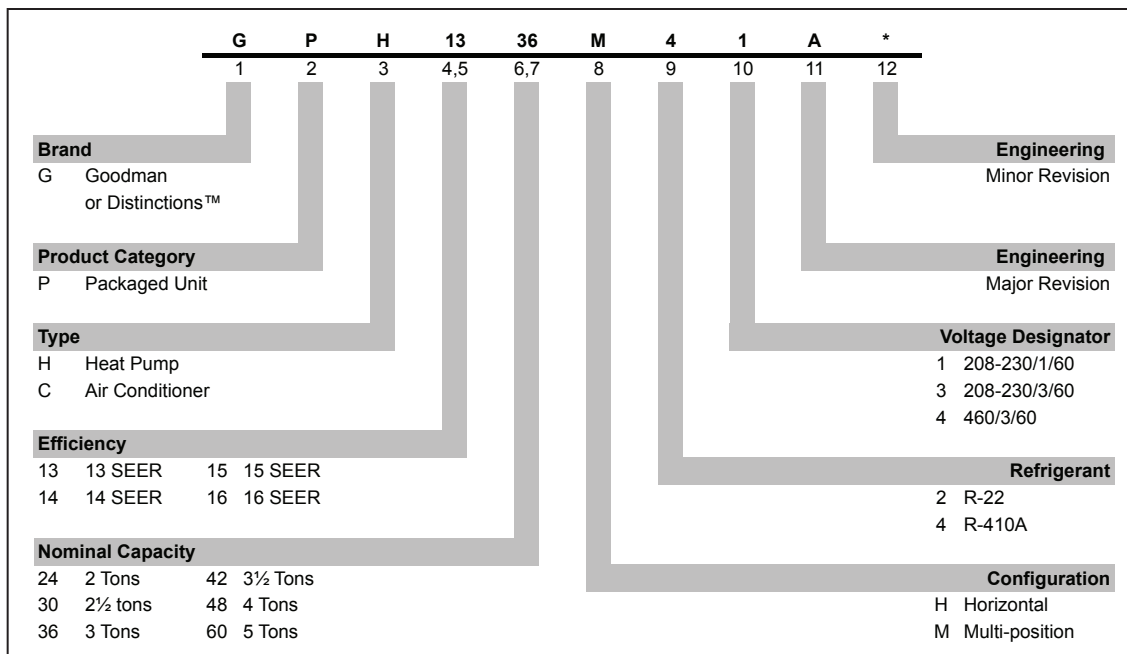
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* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California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



NOMENCLATURE



ACCESSORIES

ITEM	DESCRIPTION
20464501PDGK	Horizontal Duct Cover for Medium Chassis
20464502PDGK	Horizontal Duct Cover for Large Chassis
GPH13MED102/ 103	Downflow Economizer for Medium/Large Chassis
GPH13MFR102/ 103	Internal filter rack for Downflow Applications — Medium/ Large Chassis
OT/EHR18-60	Emergency Heat Relay kit
OT18-60A	Outdoor Thermostat Kit with Lockout Stat
PGC102/ 103	Roof Curb for Medium/ Large Chassis
PGMDD102	Manual Damper for Downflow Application — Medium Chassis
PGMDD103	Manual Damper for Downflow Application — Large Chassis
PGMDH102	Manual 25% Fresh Air Damper for Horizontal Applications — Medium Chassis
PGMDH103	Manual 25% Fresh Air Damper for Horizontal Applications — Large Chassis
PGMDMD102	Motorized Damper for Downflow Application — Medium Chassis
PGMDMD103	Motorized Damper for Downflow Application — Large Chassis
PGMDMH102	Motorized 25% Fresh Air Damper for Horizontal Applications — Medium Chassis
PGMDMH103	Motorized 25% Fresh Air Damper for Horizontal Applications — Large Chassis
SQRPG102	Square-to-Round Adapter with 16" Round for Downflow Applications — Medium Chassis
SQRPG103	Square-to-Round Adapter with 18" Round for Downflow Applications — Large Chassis
SQRPGH102	Square-to-Round Adapters for Medium Chassis — 16" x 14"
SQRPGH103	Square-to-Round Adapters for Large Chassis — 18" x 14"

SPECIFICATIONS

	GPH13 24M41**	GPH13 30M41**	GPH13 36M41**	GPH13 42M41**	GPH13 48M41**	GPH13 60M41**
Cooling Capacity						
Total BTU/h	24,000	29,000	34,600	40,000	46,500	56,000
Sensible BTU/h	18,400	22,300	25,400	29,200	36,800	40,800
SEER / EER	13/11	13/10.8	13/10.9	13/11	13/11	13/10.9
Decibels	76.7	75.3	81.3	80.1	79.1	80.2
AHRI NUMBERS	3630446	3630447	3630448	3632222	3630452	3630455
Heating Capacity						
BUT/h (47°F)	23,000	28,800	34,200	40,000	45,500	55,500
C.O.P (47°F)	3.5	3.5	3.5	3.5	3.7	3.6
BUT/h (17°F)	12,600	17,000	19,000	21,000	26,000	31,200
C.O.P (17°F)	2.14	2.18	2.1	2.18	2.3	2.24
HSPF	7.7	7.7	7.7	7.7	8.0	8.0
Evaporator Motor						
Type	DD	DD	DD	DD	X-13	X-13
Wheel (DxW)	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9
Nominal Cooling CFM	825	1,050	1,150	1,300	1,720	1,800
FLA/LRA	1.5 / 2.13	1.5 / 3.2	3.06 / 4.1	3.06 / 4.1	5.8 / --	7.6 / --
No. of Speeds	3	3	3	3	5	5
Horsepower - RPM	¼ - 952	⅓ - 869	⅓ - 910	⅓ - 910	¾ - 1,050	1 - 1,050
Evaporator Coil						
Face Area (ft²)	4.52	4.52	4.52	4.52	6.17	6.17
Rows Deep/ Fin per Inch	4 / 16	4 / 16	4 / 14	4 / 14	4 / 14	4 / 14
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
Refrigerant Charge (oz.)	110	115	135	180	190	220
Condenser Fan / Coil						
Horsepower - RPM	¼ - 830	¼ - 830	¼ - 830	¼ - 1,075	¼ - 1,075	¼ - 1,075
FLA/LRA	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.4 / 2.9	1.4 / 2.9	1.4 / 2.9
Fan Diameter / # Fan Blades	22/3	22/3	22/4	22/3	22/3	22/3
Face Area (ft²)	17.02	17.02	16.83	16.83	19.24	21.04
Rows Deep/ Fin per Inch	1 / 24	1 / 24	1 / 22	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	Single
Electrical Data						
Voltage/ Phase/ Frequency	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Compressor RLA/ LRA	12.8 / 58.3	16 / 77	16.7 / 79	17.9 / 112	21.8 / 117	26.4 / 134
Total Unit Amps	15.8	19	21.26	22.36	29	35.4
Min. Circuit Ampacity ¹	19.0	23.0	25.4	26.8	34.5	42.0
Max. Overcurrent Protection ²	30 amps	35 amps	40 amps	40 amps	50 amps	60 amps
Shipping Weight (lbs)	405	410	435	440	520	533

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 — GPH1324M41A

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	927	MBh	23.5	24.4	26.7	-	23.0	23.8	26.1	-	22.4	23.2	25.5	-	21.9	22.7	24.8	-	20.8	21.5	23.6	-	19.3	20.0	21.9	-	
		S/T	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.88	0.73	0.51	-	0.89	0.74	0.51	-	
	825	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	
		kW	1.69	1.73	1.78	-	1.82	1.85	1.91	-	1.93	1.97	2.03	-	2.02	2.06	2.13	-	2.10	2.15	2.21	-	2.17	2.22	2.29	-	
	723	Amps	7.4	7.5	7.7	-	7.8	8.0	8.2	-	8.4	8.5	8.8	-	8.8	9.0	9.3	-	9.3	9.5	9.8	-	9.8	10.0	10.3	-	
		Hi Pr	231	249	263	-	259	279	295	-	295	317	335	-	336	361	382	-	378	407	429	-	417	449	474	-	
	75	927	Lo Pr	113	120	131	-	119	127	138	-	124	132	144	-	130	138	151	-	136	145	158	-	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	-	18.7	19.4	21.2	-
		825	S/T	0.74	0.61	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.48	-	0.84	0.71	0.49	-
			ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
		723	kW	1.68	1.72	1.77	-	1.80	1.84	1.90	-	1.91	1.95	2.01	-	2.00	2.05	2.11	-	2.09	2.13	2.20	-	2.15	2.20	2.27	-
			Amps	7.3	7.4	7.6	-	7.8	7.9	8.1	-	8.3	8.5	8.7	-	8.8	9.0	9.2	-	9.2	9.4	9.7	-	9.7	9.9	10.2	-
75		927	Hi Pr	229	246	260	-	257	276	292	-	292	314	332	-	333	358	378	-	374	403	425	-	413	445	470	-
			Lo Pr	111	119	129	-	118	125	137	-	122	130	142	-	129	137	149	-	135	143	157	-	139	148	162	-
		825	MBh	21.1	21.8	23.9	-	20.6	21.3	23.4	-	20.1	20.8	22.8	-	19.6	20.3	22.3	-	18.6	19.3	21.1	-	17.3	17.9	19.6	-
			S/T	0.71	0.59	0.41	-	0.73	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
		723	ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-
			kW	1.64	1.68	1.73	-	1.76	1.80	1.85	-	1.87	1.90	1.96	-	1.96	2.00	2.06	-	2.04	2.08	2.14	-	2.10	2.15	2.22	-
	75	927	Amps	7.1	7.3	7.5	-	7.6	7.7	8.0	-	8.1	8.3	8.5	-	8.6	8.8	9.0	-	9.0	9.2	9.5	-	9.5	9.7	10.0	-
			Hi Pr	222	239	252	-	249	268	283	-	283	305	322	-	323	347	367	-	363	390	412	-	401	431	456	-
		825	Lo Pr	108	115	126	-	114	122	133	-	119	126	138	-	125	133	145	-	131	139	152	-	135	144	157	-
			MBh	23.9	24.6	26.7	28.6	23.4	24.1	26.0	27.9	22.8	23.5	25.4	27.3	22.2	22.9	24.8	26.6	21.1	21.8	23.6	25.3	19.6	20.2	21.8	23.4
		927	S/T	0.88	0.78	0.59	0.38	0.91	0.81	0.61	0.40	0.93	0.83	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.89	0.68	0.43	1.00	0.90	0.68	0.44
			ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	19	18	15	10
825		kW	1.71	1.74	1.79	1.85	1.83	1.87	1.93	1.99	1.94	1.98	2.04	2.11	2.04	2.08	2.14	2.21	2.12	2.16	2.23	2.30	2.19	2.24	2.31	2.38	
		Amps	7.4	7.6	7.7	8.0	7.9	8.0	8.3	8.5	8.4	8.6	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	9.9	10.2	9.9	10.1	10.4	10.7	
723		Hi Pr	233	251	265	277	262	282	298	310	298	321	338	353	339	365	386	402	382	411	434	452	422	454	479	500	
		Lo Pr	114	121	132	141	120	128	140	149	125	133	145	154	131	140	152	162	138	146	160	170	142	151	165	176	
927		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	19.0	19.6	21.2	22.7	
		S/T	0.84	0.75	0.57	0.36	0.87	0.77	0.59	0.38	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42	
825	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11		
	kW	1.70	1.73	1.78	1.83	1.82	1.85	1.91	1.97	1.93	1.97	2.03	2.09	2.02	2.06	2.13	2.20	2.10	2.15	2.21	2.29	2.17	2.22	2.29	2.36		
723	Amps	7.4	7.5	7.7	7.9	7.8	8.0	8.2	8.4	8.4	8.5	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1	9.8	10.0	10.3	10.6		
	Hi Pr	231	249	263	274	259	279	295	307	295	317	335	350	336	361	382	398	378	407	429	448	418	449	474	495		
927	Lo Pr	113	120	131	139	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	168	141	150	164	174		
	MBh	21.4	22.1	23.9	25.6	20.9	21.6	23.3	25.0	20.4	21.0	22.8	24.4	19.9	20.5	22.2	23.8	18.9	19.5	21.1	22.7	17.5	18.1	19.6	21.0		
825	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40		
	ΔT	22	20	17	11	22	20	17	12	22	21	17	12	22	21	17	12	22	20	17	12	21	19	16	11		
723	kW	1.66	1.69	1.74	1.79	1.78	1.81	1.87	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.08	2.14	2.05	2.10	2.16	2.23	2.12	2.16	2.23	2.31		
	Amps	7.2	7.3	7.5	7.7	7.7	7.8	8.0	8.3	8.2	8.4	8.6	8.8	8.6	8.8	9.1	9.4	9.1	9.3	9.6	9.9	9.6	9.8	10.0	10.4		
927	Hi Pr	224	241	255	266	252	271	286	298	286	308	325	339	326	351	370	386	367	394	417	434	405	436	460	480		
	Lo Pr	109	116	127	135	115	123	134	143	120	128	139	148	126	134	146	156	132	140	153	163	137	145	159	169		

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

EXPANDED COOLING DATA — GPH1324M41A (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	24.3	24.9	26.6	28.4	23.8	24.3	26.0	27.7	23.2	23.7	25.3	27.1	22.6	23.1	24.7	26.4	21.5	22.0	23.5	25.1	19.9	20.4	21.8	23.3
	S/T	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.84	0.62	1.00	1.00	0.84	0.63
	ΔT	23	22	19	15	24	23	20	16	22	23	20	16	22	23	20	16	21	21	19	16	20	20	18	15
	kW	1.72	1.76	1.81	1.86	1.85	1.88	1.94	2.00	1.96	2.00	2.06	2.12	2.05	2.10	2.16	2.23	2.14	2.18	2.25	2.32	2.21	2.25	2.33	2.40
	Amps	7.5	7.6	7.8	8.0	7.9	8.1	8.3	8.6	8.5	8.7	8.9	9.2	9.0	9.2	9.4	9.7	9.5	9.7	9.9	10.3	9.9	10.2	10.4	10.8
	Hi Pr	236	254	268	279	265	285	301	314	301	324	342	357	343	369	389	406	386	415	438	457	426	458	484	505
	Lo Pr	115	122	133	142	121	129	141	150	126	134	147	156	133	141	154	164	139	148	161	172	144	153	167	178
	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	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.97	0.91	0.74	0.56	1.00	0.94	0.77	0.57	1.00	0.98	0.80	0.60	1.00	0.99	0.80	0.60
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	24	21	16	23	23	20	16	22	22	19	15
kW	1.71	1.74	1.79	1.85	1.83	1.87	1.93	1.99	1.94	1.98	2.04	2.11	2.04	2.08	2.15	2.21	2.12	2.16	2.23	2.30	2.19	2.24	2.31	2.38	
Amps	7.4	7.6	7.7	8.0	7.9	8.0	8.3	8.5	8.4	8.6	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	9.9	10.2	9.9	10.1	10.4	10.7	
Hi Pr	233	251	265	277	262	282	298	310	298	321	339	353	339	365	386	402	382	411	434	452	422	454	479	500	
Lo Pr	114	121	132	141	120	128	140	149	125	133	145	155	131	140	152	162	138	146	160	170	142	151	165	176	
MBh	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	20.3	20.7	22.2	23.7	19.3	19.7	21.0	22.5	17.9	18.2	19.5	20.8	
S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.01	0.94	0.77	0.57	1.01	0.95	0.77	0.58	
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	
kW	1.67	1.70	1.75	1.81	1.79	1.83	1.88	1.94	1.90	1.93	1.99	2.06	1.99	2.03	2.09	2.16	2.07	2.11	2.18	2.25	2.14	2.18	2.25	2.32	
Amps	7.3	7.4	7.6	7.8	7.7	7.9	8.1	8.3	8.3	8.4	8.6	8.9	8.7	8.9	9.1	9.4	9.2	9.4	9.6	9.9	9.6	9.8	10.1	10.4	
Hi Pr	226	244	257	268	254	273	289	301	289	311	328	342	329	354	374	390	370	398	421	439	409	440	465	485	
Lo Pr	110	117	128	136	117	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	171	

85	MBh	24.8	25.2	26.4	28.2	24.2	24.7	25.8	27.6	23.6	24.1	25.2	26.9	23.0	23.5	24.6	26.2	21.9	22.3	23.4	24.9	20.3	20.7	21.6	23.1
	S/T	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.93	0.76	1.00	1.00	0.96	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
	ΔT	25	24	23	20	24	24	23	20	23	24	23	20	23	23	23	20	22	22	23	20	20	20	21	19
	kW	1.73	1.77	1.82	1.88	1.86	1.90	1.96	2.02	1.97	2.01	2.07	2.14	2.07	2.11	2.18	2.25	2.15	2.20	2.27	2.34	2.22	2.27	2.35	2.42
	Amps	7.5	7.7	7.9	8.1	8.0	8.2	8.4	8.6	8.6	8.7	9.0	9.3	9.1	9.2	9.5	9.8	9.5	9.7	10.0	10.3	10.0	10.2	10.5	10.9
	Hi Pr	238	256	271	282	267	288	304	317	304	327	345	360	346	372	393	410	389	419	442	462	430	463	489	510
	Lo Pr	116	123	135	144	123	130	142	152	127	136	148	158	134	142	155	166	140	149	163	174	145	154	169	179
	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	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	26	25	24	21	26	26	24	21	26	26	24	21	25	25	24	21	24	24	24	21	22	22	23	19
kW	1.72	1.76	1.81	1.86	1.85	1.88	1.94	2.00	1.96	2.00	2.06	2.12	2.05	2.10	2.16	2.23	2.14	2.18	2.25	2.32	2.21	2.25	2.33	2.40	
Amps	7.5	7.6	7.8	8.0	7.9	8.1	8.3	8.6	8.5	8.7	8.9	9.2	9.0	9.2	9.4	9.7	9.5	9.7	9.9	10.3	9.9	10.2	10.4	10.8	
Hi Pr	236	254	268	279	265	285	301	314	301	324	342	357	343	369	389	406	386	415	438	457	426	458	484	505	
Lo Pr	115	122	133	142	121	129	141	150	126	134	147	156	133	141	154	164	139	148	161	172	144	153	167	178	
MBh	22.2	22.6	23.7	25.3	21.7	22.1	23.1	24.7	21.2	21.6	22.6	24.1	20.6	21.0	22.0	23.5	19.6	20.0	20.9	22.3	18.2	18.5	19.4	20.7	
S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75	
ΔT	26	26	24	21	26	26	25	21	27	26	25	21	26	26	25	21	26	26	24	21	23	24	23	20	
kW	1.68	1.72	1.77	1.82	1.80	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.05	2.11	2.18	2.08	2.13	2.20	2.27	2.15	2.20	2.27	2.34	
Amps	7.3	7.4	7.6	7.9	7.8	7.9	8.1	8.4	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	9.2	9.4	9.7	10.0	9.7	9.9	10.2	10.5	
Hi Pr	229	246	260	271	257	276	292	304	292	314	332	346	332	358	378	394	374	402	425	443	413	445	470	490	
Lo Pr	111	119	129	138	118	125	137	146	122	130	142	151	129	137	149	159	135	143	156	167	139	148	162	172	

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

EXPANDED COOLING DATA — GPH1330M41A

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	AIRFLOW																							
	MBh																							
	S/T																							
	ΔT																							
	kW																							
	Amps																							
	Hi Pr																							
	Lo Pr																							
	MBh																							
	S/T																							
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								
MBh																								
S/T																								
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								

75	AIRFLOW																							
	MBh																							
	S/T																							
	ΔT																							
	kW																							
	Amps																							
	Hi Pr																							
	Lo Pr																							
	MBh																							
	S/T																							
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								
MBh																								
S/T																								
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								

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

EXPANDED COOLING DATA — GPH1330M41A (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	29.4	30.1	32.1	34.3	28.7	29.4	31.4	33.5	28.0	28.7	30.6	32.7	27.4	28.0	29.9	31.9	26.0	26.6	28.4	30.3	24.1	24.6	26.3	28.1
	S/T	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.84	0.63
	ΔT	22	21	18	15	22	21	19	15	21	22	19	15	21	22	19	15	20	21	18	15	19	19	17	14
	kW	2.23	2.28	2.35	2.42	2.40	2.45	2.52	2.60	2.54	2.59	2.67	2.76	2.67	2.72	2.81	2.90	2.78	2.83	2.92	3.02	2.87	2.93	3.02	3.12
	Amps	9.6	9.8	10.1	10.4	10.3	10.5	10.8	11.1	11.0	11.2	11.6	11.9	11.7	11.9	12.2	12.6	12.3	12.6	12.9	13.3	12.9	13.2	13.6	14.0
	Hi Pr	236	255	269	280	265	286	302	315	302	325	343	358	344	370	391	407	387	416	439	458	427	460	486	506
	Lo Pr	111	118	129	137	117	125	136	145	122	130	142	151	128	136	149	158	134	143	156	166	139	148	161	172
	MBh	28.6	29.2	31.2	33.3	27.9	28.5	30.5	32.6	27.2	27.8	29.7	31.8	26.6	27.1	29.0	31.0	25.2	25.8	27.6	29.5	23.4	23.9	25.5	27.3
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.00	0.94	0.77	0.57	1.00	0.98	0.80	0.60	1.00	0.99	0.80	0.60
	ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	22	22	19	15	20	21	18	14
kW	2.22	2.26	2.33	2.40	2.38	2.43	2.50	2.58	2.52	2.57	2.65	2.74	2.65	2.70	2.79	2.88	2.75	2.81	2.90	2.99	2.85	2.91	3.00	3.10	
Amps	9.6	9.8	10.0	10.3	10.2	10.4	10.7	11.0	10.9	11.2	11.5	11.8	11.6	11.8	12.1	12.5	12.2	12.5	12.8	13.2	12.8	13.1	13.5	13.9	
Hi Pr	234	252	266	278	263	283	299	311	299	322	340	354	340	366	387	403	383	412	435	454	423	455	481	501	
Lo Pr	110	117	128	136	116	124	135	144	121	128	140	149	127	135	147	157	133	141	154	164	137	146	160	170	
MBh	26.4	26.9	28.8	30.8	25.7	26.3	28.1	30.0	25.1	25.7	27.4	29.3	24.5	25.1	26.8	28.6	23.3	23.8	25.4	27.2	21.6	22.0	23.6	25.2	
S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.01	0.94	0.77	0.57	1.01	0.95	0.77	0.58	
ΔT	23	22	19	15	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	22	21	18	15	
kW	2.17	2.21	2.28	2.34	2.32	2.37	2.44	2.52	2.46	2.51	2.59	2.67	2.58	2.64	2.72	2.81	2.69	2.74	2.83	2.92	2.78	2.84	2.93	3.02	
Amps	9.4	9.5	9.8	10.1	10.0	10.2	10.5	10.8	10.7	10.9	11.2	11.6	11.3	11.5	11.9	12.2	11.9	12.2	12.5	12.9	12.5	12.8	13.2	13.6	
Hi Pr	227	244	258	269	255	274	290	302	290	312	329	344	330	355	375	391	371	400	422	440	410	442	466	486	
Lo Pr	107	113	124	132	113	120	131	139	117	125	136	145	123	131	143	152	129	137	150	159	133	142	155	165	

85	MBh	29.9	30.5	31.9	34.1	29.2	29.8	31.2	33.3	28.5	29.1	30.5	32.5	27.8	28.4	29.7	31.7	26.4	27.0	28.2	30.1	24.5	25.0	26.2	27.9
	S/T	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.93	0.76	1.00	1.00	0.96	0.78	1.00	1.00	0.96	0.81	1.00	1.00	0.96	0.82
	ΔT	23	23	22	19	23	23	22	19	22	23	22	19	22	22	22	19	21	21	22	19	19	19	20	18
	kW	2.25	2.30	2.37	2.44	2.42	2.46	2.54	2.62	2.56	2.61	2.70	2.78	2.69	2.75	2.83	2.92	2.80	2.86	2.95	3.04	2.89	2.95	3.05	3.15
	Amps	9.7	9.9	10.2	10.5	10.4	10.6	10.9	11.2	11.1	11.3	11.7	12.0	11.8	12.0	12.3	12.7	12.4	12.7	13.0	13.5	13.0	13.3	13.7	14.2
	Hi Pr	239	257	271	283	268	288	305	318	305	328	346	361	347	374	395	411	391	420	444	463	432	464	490	511
	Lo Pr	112	119	130	139	119	126	138	147	123	131	143	152	129	138	150	160	136	144	157	168	140	149	163	173
	MBh	29.1	29.6	31.0	33.1	28.4	28.9	30.3	32.3	27.7	28.2	29.6	31.6	27.0	27.6	28.9	30.8	25.7	26.2	27.4	29.2	23.8	24.2	25.4	27.1
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20	24	23	23	20	21	21	21	18
kW	2.23	2.28	2.35	2.42	2.40	2.45	2.52	2.60	2.54	2.59	2.67	2.76	2.67	2.72	2.81	2.90	2.78	2.83	2.92	3.02	2.87	2.93	3.02	3.12	
Amps	9.6	9.8	10.1	10.4	10.3	10.5	10.8	11.1	11.0	11.2	11.6	11.9	11.7	11.9	12.2	12.6	12.3	12.6	12.9	13.3	12.9	13.2	13.6	14.0	
Hi Pr	236	255	269	280	265	286	302	315	302	325	343	358	344	370	391	407	387	416	439	458	427	460	486	506	
Lo Pr	111	118	129	137	117	125	136	145	122	130	142	151	128	136	149	158	134	143	156	166	139	148	161	172	
MBh	26.8	27.3	28.6	30.5	26.2	26.7	28.0	29.8	25.6	26.1	27.3	29.1	24.9	25.4	26.6	28.4	23.7	24.2	25.3	27.0	22.0	22.4	23.4	25.0	
S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75	
ΔT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	24	23	20	22	22	22	19	
kW	2.18	2.23	2.29	2.36	2.34	2.39	2.46	2.54	2.48	2.53	2.61	2.69	2.60	2.66	2.74	2.83	2.71	2.77	2.85	2.95	2.80	2.86	2.95	3.05	
Amps	9.4	9.6	9.9	10.2	10.0	10.2	10.5	10.9	10.8	11.0	11.3	11.7	11.4	11.6	12.0	12.3	12.0	12.3	12.6	13.0	12.6	12.9	13.3	13.7	
Hi Pr	229	247	261	272	257	277	293	305	293	315	333	347	333	359	379	395	375	404	426	445	414	446	471	491	
Lo Pr	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	139	151	161	135	143	156	167	

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

EXPANDED COOLING DATA — GPH1336M41A

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	33.9	35.1	38.5	-	33.1	34.3	37.6	-	32.3	33.5	36.7	-	31.5	32.7	35.8	-	30.0	31.1	34.0	-	27.8	28.8	31.5	-
	S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-
	ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
	kW	2.52	2.57	2.65	-	2.70	2.76	2.84	-	2.86	2.92	3.01	-	3.01	3.07	3.17	-	3.13	3.19	3.29	-	3.23	3.30	3.41	-
	Amps	10.6	10.8	11.1	-	11.3	11.5	11.9	-	12.1	12.4	12.7	-	12.9	13.1	13.5	-	13.6	13.9	14.3	-	14.3	14.6	15.0	-
	Hi Pr	237	255	270	-	266	287	303	-	303	326	344	-	345	371	392	-	388	418	441	-	429	461	487	-
	Lo Pr	112	119	130	-	118	126	137	-	123	131	143	-	129	137	150	-	135	144	157	-	140	149	162	-
	MBh	32.9	34.1	37.4	-	32.2	33.3	36.5	-	31.4	32.5	35.6	-	30.6	31.7	34.8	-	29.1	30.2	33.0	-	26.9	27.9	30.6	-
	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	-	0.81	0.67	0.47	-
	ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
	kW	2.50	2.55	2.63	-	2.68	2.74	2.82	-	2.84	2.90	2.99	-	2.98	3.05	3.14	-	3.10	3.17	3.27	-	3.21	3.27	3.38	-
	Amps	10.5	10.7	11.0	-	11.2	11.4	11.8	-	12.0	12.3	12.6	-	12.8	13.0	13.4	-	13.5	13.8	14.2	-	14.2	14.5	14.9	-
Hi Pr	235	253	267	-	264	284	300	-	300	323	341	-	341	367	388	-	384	413	437	-	424	457	482	-	
Lo Pr	111	118	129	-	117	124	136	-	122	129	141	-	128	136	148	-	134	142	155	-	138	147	161	-	
MBh	30.4	31.5	34.5	-	29.7	30.8	33.7	-	29.0	30.0	32.9	-	28.3	29.3	32.1	-	26.9	27.8	30.5	-	24.9	25.8	28.2	-	
S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.65	0.45	-	0.78	0.65	0.45	-	
ΔT	19	16	12	-	19	16	13	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-	
kW	2.45	2.49	2.57	-	2.62	2.67	2.75	-	2.78	2.83	2.92	-	2.91	2.97	3.07	-	3.03	3.09	3.19	-	3.13	3.20	3.30	-	
Amps	10.3	10.5	10.8	-	11.0	11.2	11.5	-	11.8	12.0	12.3	-	12.4	12.7	13.1	-	13.1	13.4	13.8	-	13.8	14.1	14.5	-	
Hi Pr	228	245	259	-	256	275	291	-	291	313	330	-	331	356	376	-	373	401	423	-	412	443	468	-	
Lo Pr	107	114	125	-	113	121	132	-	118	125	137	-	124	132	144	-	130	138	151	-	134	143	156	-	

75	MBh	34.5	35.5	38.4	41.2	33.7	34.7	37.5	40.3	32.9	33.8	36.6	39.3	32.1	33.0	35.7	38.4	30.5	31.4	34.0	36.4	28.2	29.1	31.5	33.8
	S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
	kW	2.54	2.59	2.67	2.75	2.72	2.78	2.86	2.95	2.89	2.95	3.04	3.13	3.03	3.09	3.19	3.29	3.15	3.22	3.32	3.43	3.26	3.33	3.43	3.55
	Amps	10.7	10.9	11.2	11.5	11.4	11.6	12.0	12.3	12.2	12.5	12.8	13.3	13.0	13.2	13.6	14.1	13.7	14.0	14.4	14.9	14.4	14.7	15.2	15.7
	Hi Pr	240	258	272	284	269	289	306	319	306	329	348	363	348	375	396	413	392	422	445	465	433	466	492	513
	Lo Pr	113	120	131	140	119	127	139	148	124	132	144	153	130	139	151	161	137	145	159	169	141	150	164	175
	MBh	33.5	34.5	37.3	40.0	32.7	33.7	36.4	39.1	31.9	32.9	35.6	38.2	31.1	32.1	34.7	37.2	29.6	30.5	33.0	35.4	27.4	28.2	30.5	32.8
	S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40
	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
	kW	2.52	2.57	2.65	2.73	2.70	2.76	2.84	2.93	2.86	2.92	3.01	3.11	3.01	3.07	3.17	3.27	3.13	3.19	3.30	3.40	3.23	3.30	3.41	3.52
	Amps	10.6	10.8	11.1	11.4	11.3	11.5	11.9	12.2	12.1	12.4	12.7	13.2	12.9	13.1	13.5	14.0	13.6	13.9	14.3	14.8	14.3	14.6	15.0	15.5
Hi Pr	237	255	270	281	266	287	303	316	303	326	344	359	345	371	392	409	388	418	441	460	429	461	487	508	
Lo Pr	112	119	130	138	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	162	173	
MBh	30.9	31.8	34.4	37.0	30.2	31.1	33.6	36.1	29.5	30.3	32.8	35.2	28.7	29.6	32.0	34.4	27.3	28.1	30.4	32.7	25.3	26.0	28.2	30.3	
S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.59	0.38	0.89	0.79	0.60	0.39	
ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11	
kW	2.46	2.51	2.59	2.67	2.64	2.70	2.78	2.86	2.80	2.86	2.94	3.04	2.94	3.00	3.09	3.19	3.05	3.12	3.22	3.32	3.15	3.22	3.32	3.43	
Amps	10.3	10.5	10.8	11.2	11.0	11.3	11.6	11.9	11.8	12.1	12.4	12.8	12.5	12.8	13.2	13.6	13.2	13.5	13.9	14.4	13.9	14.2	14.7	15.2	
Hi Pr	230	248	262	273	258	278	294	306	294	316	334	348	335	360	380	397	376	405	428	446	416	448	473	493	
Lo Pr	108	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	139	152	162	136	144	157	168	

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

EXPANDED COOLING DATA — GPH1336M41A (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	35.1	35.9	38.3	41.0	34.3	35.0	37.4	40.0	33.5	34.2	36.5	39.0	32.6	33.4	35.6	38.1	31.0	31.7	33.9	36.2	28.7	29.4	31.4	33.5
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.60
	ΔT	23	22	19	15	24	22	19	15	23	22	20	16	23	22	20	16	22	21	19	15	20	21	18	14
	kW	2.56	2.61	2.69	2.77	2.75	2.80	2.89	2.98	2.91	2.97	3.06	3.16	3.05	3.12	3.22	3.32	3.18	3.25	3.35	3.46	3.28	3.36	3.46	3.58
	Amps	10.7	11.0	11.3	11.6	11.5	11.7	12.0	12.4	12.3	12.6	12.9	13.4	13.1	13.3	13.7	14.2	13.8	14.1	14.5	15.0	14.5	14.8	15.3	15.8
	Hi Pr	242	261	275	287	272	292	309	322	309	333	351	366	352	379	400	417	396	426	450	469	437	471	497	518
	Lo Pr	114	121	132	141	121	128	140	149	125	133	145	155	132	140	153	163	138	147	160	171	143	152	166	176
	MBh	34.1	34.8	37.2	39.8	33.3	34.0	36.3	38.8	32.5	33.2	35.5	37.9	31.7	32.4	34.6	37.0	30.1	30.8	32.9	35.1	27.9	28.5	30.4	32.5
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.94	0.76	0.57	1.00	0.94	0.77	0.57
	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
	kW	2.54	2.59	2.67	2.75	2.72	2.78	2.86	2.95	2.89	2.95	3.04	3.13	3.03	3.09	3.19	3.29	3.15	3.22	3.32	3.43	3.26	3.33	3.43	3.55
	Amps	10.7	10.9	11.2	11.5	11.4	11.6	12.0	12.3	12.2	12.5	12.8	13.3	13.0	13.2	13.6	14.1	13.7	14.0	14.4	14.9	14.4	14.7	15.2	15.7
Hi Pr	240	258	272	284	269	289	306	319	306	329	348	363	348	375	396	413	392	422	445	465	433	466	492	513	
Lo Pr	113	120	131	140	119	127	139	148	124	132	144	153	130	139	151	161	137	145	159	169	141	150	164	175	
MBh	31.4	32.1	34.3	36.7	30.7	31.4	33.5	35.8	30.0	30.6	32.7	35.0	29.3	29.9	31.9	34.1	27.8	28.4	30.3	32.4	25.7	26.3	28.1	30.0	
S/T	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	0.97	0.91	0.74	0.55	
ΔT	24	23	20	16	25	24	20	16	25	24	20	16	25	24	21	16	24	23	20	16	23	22	19	15	
kW	2.48	2.53	2.61	2.69	2.66	2.72	2.80	2.88	2.82	2.88	2.97	3.06	2.96	3.02	3.12	3.21	3.08	3.14	3.24	3.35	3.18	3.25	3.35	3.46	
Amps	10.4	10.6	10.9	11.3	11.1	11.4	11.7	12.0	11.9	12.2	12.5	12.9	12.6	12.9	13.3	13.7	13.4	13.6	14.0	14.5	14.0	14.4	14.8	15.3	
Hi Pr	233	250	264	276	261	281	297	309	297	319	337	352	338	364	384	401	380	409	432	451	420	452	477	498	
Lo Pr	110	117	127	136	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	169	
85	MBh	35.7	36.4	38.1	40.7	34.9	35.6	37.2	39.7	34.0	34.7	36.3	38.8	33.2	33.9	35.5	37.8	31.6	32.2	33.7	35.9	29.2	29.8	31.2	33.3
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.96	0.78
	ΔT	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20	22	23	20	16	21	21	19	15
	kW	2.58	2.63	2.71	2.79	2.77	2.82	2.91	3.00	2.93	2.99	3.09	3.18	3.08	3.14	3.24	3.35	3.20	3.27	3.38	3.49	3.31	3.38	3.49	3.61
	Amps	10.8	11.0	11.4	11.7	11.6	11.8	12.1	12.5	12.4	12.7	13.1	13.5	13.2	13.4	13.8	14.3	13.9	14.2	14.6	15.1	14.6	15.0	15.4	15.9
	Hi Pr	245	263	278	290	274	295	312	325	312	336	355	370	355	383	404	421	400	430	454	474	442	475	502	524
	Lo Pr	115	123	134	143	122	130	141	151	127	135	147	156	133	141	154	164	139	148	162	172	144	153	167	178
	MBh	34.7	35.3	37.0	39.5	33.9	34.5	36.1	38.6	33.1	33.7	35.3	37.6	32.2	32.9	34.4	36.7	30.6	31.2	32.7	34.9	28.4	28.9	30.3	32.3
	S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.75
	ΔT	25	25	24	21	26	25	24	21	26	25	24	21	26	26	24	21	24	25	24	21	23	23	22	19
	kW	2.56	2.61	2.69	2.77	2.75	2.80	2.89	2.98	2.91	2.97	3.06	3.16	3.05	3.12	3.22	3.32	3.18	3.25	3.35	3.46	3.28	3.36	3.46	3.58
	Amps	10.7	11.0	11.3	11.6	11.5	11.7	12.0	12.4	12.3	12.6	12.9	13.4	13.1	13.3	13.7	14.2	13.8	14.1	14.5	15.0	14.5	14.8	15.3	15.8
Hi Pr	242	261	275	287	272	292	309	322	309	333	351	366	352	379	400	417	396	426	450	469	437	471	497	518	
Lo Pr	114	121	132	141	121	128	140	149	125	133	145	155	132	140	153	163	138	147	160	171	143	152	166	176	
MBh	32.0	32.6	34.2	36.4	31.3	31.9	33.4	35.6	30.5	31.1	32.6	34.7	29.8	30.3	31.8	33.9	28.3	28.8	30.2	32.2	26.2	26.7	28.0	29.8	
S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.89	0.72	
ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	26	26	24	21	24	24	23	20	
kW	2.50	2.55	2.63	2.71	2.68	2.74	2.82	2.91	2.84	2.90	2.99	3.08	2.98	3.04	3.14	3.24	3.10	3.17	3.27	3.37	3.21	3.27	3.38	3.49	
Amps	10.5	10.7	11.0	11.4	11.2	11.4	11.8	12.1	12.0	12.3	12.6	13.1	12.7	13.0	13.4	13.8	13.5	13.7	14.2	14.6	14.2	14.5	14.9	15.4	
Hi Pr	235	253	267	278	264	284	299	312	300	323	341	355	341	367	388	405	384	413	436	455	424	457	482	503	
Lo Pr	111	118	129	137	117	124	136	145	121	129	141	150	128	136	148	158	134	142	155	165	138	147	161	171	

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

EXPANDED COOLING DATA — GPH1342M41A

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	39.2	40.6	44.5	-	38.3	39.7	43.5	-	37.4	38.7	42.4	-	36.5	37.8	41.4	-	34.6	35.9	39.3	-	32.1	33.3	36.4	-
	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	0.70	0.48	-	0.84	0.70	0.49	-
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
	kW	2.86	2.91	3.00	-	3.06	3.12	3.22	-	3.24	3.31	3.41	-	3.40	3.47	3.58	-	3.54	3.61	3.73	-	3.65	3.73	3.85	-
	Amps	12.5	12.8	13.1	-	13.4	13.7	14.0	-	14.4	14.7	15.1	-	15.2	15.5	16.0	-	16.0	16.4	16.9	-	16.9	17.2	17.8	-
	Hi Pr	227	244	258	-	255	274	289	-	290	312	329	-	330	355	375	-	371	399	422	-	410	441	466	-
	Lo Pr	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	148	-	132	141	154	-
	MBh	38.1	39.4	43.2	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	35.4	36.7	40.2	-	33.6	34.9	38.2	-	31.2	32.3	35.4	-
	S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-
	ΔT	19	16	12	-	19	16	13	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-
	kW	2.84	2.89	2.98	-	3.04	3.10	3.19	-	3.22	3.28	3.38	-	3.38	3.45	3.55	-	3.51	3.58	3.70	-	3.63	3.70	3.82	-
	Amps	12.4	12.7	13.0	-	13.3	13.5	13.9	-	14.2	14.5	15.0	-	15.1	15.4	15.8	-	15.9	16.3	16.7	-	16.7	17.1	17.6	-
Hi Pr	225	242	255	-	252	271	286	-	287	308	326	-	327	351	371	-	367	395	417	-	406	437	461	-	
Lo Pr	105	111	122	-	111	118	129	-	115	122	134	-	121	129	140	-	127	135	147	-	131	139	152	-	
MBh	35.1	36.4	39.9	-	34.3	35.6	39.0	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.0	32.2	35.2	-	28.8	29.8	32.7	-	
S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.77	0.65	0.45	-	
ΔT	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-	
kW	2.77	2.83	2.91	-	2.97	3.03	3.12	-	3.14	3.21	3.31	-	3.30	3.37	3.47	-	3.43	3.50	3.61	-	3.54	3.61	3.73	-	
Amps	12.2	12.4	12.7	-	13.0	13.2	13.6	-	13.9	14.2	14.6	-	14.7	15.0	15.5	-	15.5	15.9	16.3	-	16.3	16.7	17.2	-	
Hi Pr	218	234	248	-	244	263	278	-	278	299	316	-	317	341	360	-	356	383	405	-	394	424	447	-	
Lo Pr	102	108	118	-	107	114	125	-	112	119	130	-	117	125	136	-	123	131	143	-	127	135	148	-	

75	MBh	39.9	41.0	44.4	47.7	38.9	40.1	43.4	46.6	38.0	39.1	42.4	45.5	37.1	38.2	41.3	44.4	35.2	36.3	39.3	42.1	32.6	33.6	36.4	39.0
	S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.88	0.79	0.60	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10
	kW	2.88	2.94	3.02	3.11	3.09	3.15	3.24	3.34	3.27	3.34	3.44	3.55	3.43	3.50	3.61	3.72	3.57	3.64	3.76	3.88	3.68	3.76	3.88	4.01
	Amps	12.6	12.9	13.2	13.6	13.5	13.8	14.1	14.6	14.5	14.8	15.2	15.7	15.3	15.6	16.1	16.6	16.2	16.5	17.0	17.6	17.0	17.4	17.9	18.5
	Hi Pr	229	247	260	272	257	277	292	305	292	315	332	347	333	358	379	395	375	403	426	444	414	446	471	491
	Lo Pr	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	134	142	155	165
	MBh	38.7	39.8	43.1	46.3	37.8	38.9	42.1	45.2	36.9	38.0	41.1	44.1	36.0	37.1	40.1	43.1	34.2	35.2	38.1	40.9	31.7	32.6	35.3	37.9
	S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.82	0.62	0.40
	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11
	kW	2.86	2.92	3.00	3.09	3.06	3.12	3.22	3.32	3.24	3.31	3.41	3.52	3.40	3.47	3.58	3.69	3.54	3.61	3.73	3.84	3.66	3.73	3.85	3.97
	Amps	12.5	12.8	13.1	13.5	13.4	13.7	14.0	14.5	14.4	14.7	15.1	15.6	15.2	15.5	16.0	16.5	16.0	16.4	16.9	17.4	16.9	17.2	17.8	18.4
Hi Pr	227	244	258	269	255	274	289	302	290	312	329	343	330	355	375	391	371	399	422	440	410	441	466	486	
Lo Pr	106	113	123	131	112	119	130	138	116	124	135	144	122	130	142	151	128	136	149	158	132	141	154	164	
MBh	35.7	36.8	39.8	42.7	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.2	34.2	37.0	39.7	31.6	32.5	35.2	37.8	29.2	30.1	32.6	35.0	
S/T	0.77	0.68	0.52	0.33	0.79	0.71	0.54	0.35	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.88	0.79	0.60	0.38	
ΔT	22	20	17	11	22	21	17	12	22	21	17	12	23	21	17	12	22	20	17	12	21	19	16	11	
kW	2.80	2.85	2.93	3.02	2.99	3.05	3.14	3.24	3.17	3.23	3.33	3.43	3.32	3.39	3.50	3.61	3.45	3.53	3.64	3.75	3.57	3.64	3.76	3.88	
Amps	12.3	12.5	12.8	13.2	13.1	13.3	13.7	14.1	14.0	14.3	14.7	15.2	14.8	15.2	15.6	16.1	15.7	16.0	16.5	17.0	16.5	16.8	17.3	17.9	
Hi Pr	220	237	250	261	247	266	281	293	281	302	319	333	320	344	364	379	360	387	409	427	398	428	452	471	
Lo Pr	103	109	119	127	108	115	126	134	113	120	131	139	118	126	137	146	124	132	144	153	128	136	149	159	

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

EXPANDED COOLING DATA — GPH1342M41A (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	MIBh	40.6	41.5	44.3	47.3	39.6	40.5	43.3	46.2	38.7	39.5	42.2	45.1	37.7	38.6	41.2	44.0	35.9	36.6	39.1	41.8	33.2	33.9	36.3	38.8
	S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.80	0.60
	ΔT	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	18	15
	kW	2.90	2.96	3.05	3.14	3.11	3.17	3.27	3.37	3.29	3.36	3.47	3.57	3.46	3.53	3.64	3.75	3.59	3.67	3.79	3.91	3.71	3.79	3.91	4.04
	Amps	12.7	13.0	13.3	13.8	13.6	13.9	14.3	14.7	14.6	14.9	15.3	15.8	15.4	15.8	16.2	16.8	16.3	16.7	17.1	17.7	17.2	17.5	18.0	18.7
	Hi Pr	232	249	263	274	260	280	295	308	295	318	336	350	336	362	382	399	379	407	430	449	418	450	475	496
	Lo Pr	108	115	125	134	114	121	132	141	119	126	138	147	124	132	145	154	130	139	152	161	135	144	157	167
	MIBh	39.4	40.2	43.0	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	36.6	37.4	40.0	42.8	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6
	S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
	ΔT	24	23	20	16	25	24	20	16	25	24	20	16	25	24	21	16	24	23	20	16	23	22	19	15
kW	2.88	2.94	3.02	3.11	3.09	3.15	3.24	3.34	3.27	3.34	3.44	3.55	3.43	3.50	3.61	3.72	3.57	3.64	3.76	3.88	3.68	3.76	3.88	4.01	
Amps	12.6	12.9	13.2	13.7	13.5	13.8	14.1	14.6	14.5	14.8	15.2	15.7	15.3	15.6	16.1	16.6	16.2	16.5	17.0	17.6	17.0	17.4	17.9	18.5	
Hi Pr	229	247	260	272	257	277	292	305	293	315	332	347	333	359	379	395	375	403	426	444	414	446	471	491	
Lo Pr	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	134	142	155	165	
MIBh	36.4	37.1	39.7	42.4	35.5	36.3	38.8	41.4	34.7	35.4	37.8	40.5	33.8	34.6	36.9	39.5	32.1	32.8	35.1	37.5	29.8	30.4	32.5	34.7	
S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.66	0.50	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	0.96	0.90	0.74	0.55	
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	
kW	2.82	2.87	2.96	3.04	3.02	3.08	3.17	3.27	3.19	3.26	3.36	3.46	3.35	3.42	3.52	3.64	3.48	3.55	3.67	3.78	3.60	3.67	3.79	3.91	
Amps	12.3	12.6	12.9	13.3	13.2	13.4	13.8	14.3	14.1	14.4	14.8	15.3	15.0	15.3	15.7	16.2	15.8	16.1	16.6	17.1	16.6	17.0	17.5	18.0	
Hi Pr	222	239	253	264	249	268	284	296	284	305	322	336	323	348	367	383	364	391	413	431	402	432	456	476	
Lo Pr	104	110	120	128	110	117	127	135	114	121	132	141	120	127	139	148	125	133	146	155	130	138	151	160	

85	MIBh	41.3	42.1	44.1	47.0	40.3	41.1	43.0	45.9	39.4	40.1	42.0	44.8	38.4	39.1	41.0	43.7	36.5	37.2	38.9	41.5	33.8	34.4	36.1	38.5
	S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	25	24	23	20	25	25	23	20	25	25	23	20	24	25	24	20	23	23	23	20	21	22	22	19
	kW	2.92	2.98	3.07	3.16	3.13	3.20	3.29	3.40	3.32	3.39	3.49	3.60	3.48	3.56	3.67	3.78	3.62	3.70	3.82	3.94	3.74	3.82	3.94	4.07
	Amps	12.8	13.1	13.4	13.9	13.7	14.0	14.4	14.8	14.7	15.0	15.4	15.9	15.6	15.9	16.4	16.9	16.4	16.8	17.3	17.9	17.3	17.7	18.2	18.8
	Hi Pr	234	252	266	277	262	282	298	311	298	321	339	354	340	366	386	403	382	411	434	453	422	455	480	501
	Lo Pr	109	116	127	135	115	123	134	142	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169
	MIBh	40.1	40.9	42.8	45.6	39.1	39.9	41.8	44.6	38.2	39.0	40.8	43.5	37.3	38.0	39.8	42.5	35.4	36.1	37.8	40.3	32.8	33.4	35.0	37.4
	S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.91	0.74
	ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	25	26	24	21	23	24	23	20
kW	2.90	2.96	3.05	3.14	3.11	3.17	3.27	3.37	3.29	3.36	3.47	3.57	3.46	3.53	3.64	3.75	3.59	3.67	3.79	3.91	3.71	3.79	3.91	4.04	
Amps	12.7	13.0	13.3	13.8	13.6	13.9	14.3	14.7	14.6	14.9	15.3	15.8	15.4	15.8	16.2	16.8	16.3	16.7	17.1	17.7	17.2	17.5	18.0	18.7	
Hi Pr	232	249	263	274	260	280	295	308	295	318	336	350	336	362	382	399	379	407	430	449	418	450	475	496	
Lo Pr	108	115	125	134	114	121	132	141	119	126	138	147	124	132	145	154	130	139	152	161	135	144	157	167	
MIBh	37.0	37.7	39.5	42.1	36.1	36.8	38.6	41.2	35.3	36.0	37.7	40.2	34.4	35.1	36.7	39.2	32.7	33.3	34.9	37.2	30.3	30.9	32.3	34.5	
S/T	0.88	0.85	0.77	0.62	0.91	0.88	0.79	0.64	0.94	0.90	0.81	0.66	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.98	0.88	0.71	
ΔT	26	26	24	21	27	26	25	21	27	26	25	21	27	26	25	22	26	26	25	21	24	24	23	20	
kW	2.84	2.89	2.98	3.07	3.04	3.10	3.19	3.29	3.22	3.28	3.38	3.49	3.38	3.45	3.55	3.66	3.51	3.58	3.69	3.81	3.62	3.70	3.82	3.94	
Amps	12.4	12.7	13.0	13.4	13.3	13.5	13.9	14.4	14.2	14.5	14.9	15.4	15.1	15.4	15.8	16.4	15.9	16.3	16.7	17.3	16.7	17.1	17.6	18.2	
Hi Pr	225	242	255	266	252	271	286	299	287	308	326	340	326	351	371	387	367	395	417	435	406	437	461	481	
Lo Pr	105	111	122	129	111	118	128	137	115	122	134	142	121	128	140	149	127	135	147	157	131	139	152	162	

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects AHR1 (TVA) conditions
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)
 kW = Total system power

EXPANDED COOLING DATA — GPH1348M41A

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	45.6	47.2	51.7	-	44.5	46.1	50.5	-	43.4	45.0	49.3	-	42.4	43.9	48.1	-	40.3	41.7	45.7	-	37.3	38.7	42.4	-
	S/T	0.80	0.66	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.87	0.73	0.50	-	0.91	0.76	0.52	-	0.91	0.76	0.53	-
	ΔT	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
	kW	3.29	3.36	3.46	-	3.53	3.61	3.72	-	3.75	3.83	3.95	-	3.94	4.03	4.16	-	4.11	4.20	4.33	-	4.25	4.34	4.48	-
	Amps	13.7	14.0	14.4	-	14.6	14.9	15.4	-	15.7	16.1	16.5	-	16.7	17.1	17.6	-	17.6	18.0	18.6	-	18.6	19.0	19.6	-
	Hi Pr	240	259	273	-	270	290	307	-	307	330	349	-	350	376	397	-	393	423	447	-	434	468	494	-
	Lo Pr	109	116	126	-	115	122	133	-	119	127	139	-	125	133	146	-	131	140	153	-	136	145	158	-
	MBh	44.2	45.9	50.2	-	43.2	44.8	49.1	-	42.2	43.7	47.9	-	41.2	42.7	46.7	-	39.1	40.5	44.4	-	36.2	37.5	41.1	-
	S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
kW	3.26	3.33	3.43	-	3.51	3.58	3.69	-	3.72	3.80	3.92	-	3.91	4.00	4.12	-	4.07	4.16	4.30	-	4.21	4.30	4.44	-	
Amps	13.6	13.8	14.2	-	14.5	14.8	15.2	-	15.6	15.9	16.4	-	16.6	16.9	17.4	-	17.5	17.9	18.4	-	18.4	18.8	19.4	-	
Hi Pr	238	256	271	-	267	288	304	-	304	327	345	-	346	372	393	-	389	419	442	-	430	463	489	-	
Lo Pr	108	114	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	135	143	156	-	
MBh	40.8	42.3	46.4	-	39.9	41.3	45.3	-	38.9	40.4	44.2	-	38.0	39.4	43.1	-	36.1	37.4	41.0	-	33.4	34.6	38.0	-	
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	0.70	0.48	-	0.84	0.70	0.49	-	
ΔT	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	
kW	3.19	3.25	3.35	-	3.42	3.50	3.60	-	3.63	3.71	3.83	-	3.82	3.90	4.02	-	3.97	4.06	4.19	-	4.11	4.20	4.33	-	
Amps	13.3	13.5	13.9	-	14.2	14.5	14.9	-	15.2	15.6	16.0	-	16.2	16.5	17.0	-	17.1	17.4	18.0	-	18.0	18.4	18.9	-	
Hi Pr	231	249	262	-	259	279	294	-	295	317	335	-	336	361	381	-	378	406	429	-	417	449	474	-	
Lo Pr	104	111	121	-	110	117	128	-	115	122	133	-	120	128	140	-	126	134	146	-	130	139	152	-	

75	MBh	46.3	47.7	51.6	55.4	45.3	46.6	50.4	54.1	44.2	45.5	49.2	52.8	43.1	44.4	48.0	51.6	41.0	42.2	45.6	49.0	37.9	39.1	42.3	45.4
	S/T	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.96	0.86	0.65	0.42	0.99	0.89	0.67	0.43	1.00	0.92	0.70	0.45	1.00	0.93	0.70	0.45
	ΔT	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	19	18	15	10	18	17	14	10
	kW	3.31	3.38	3.49	3.60	3.56	3.64	3.75	3.87	3.78	3.86	3.99	4.12	3.98	4.06	4.19	4.33	4.14	4.23	4.37	4.51	4.28	4.38	4.52	4.67
	Amps	13.8	14.1	14.5	14.9	14.7	15.1	15.5	16.0	15.9	16.2	16.7	17.2	16.8	17.2	17.7	18.3	17.8	18.2	18.7	19.4	18.8	19.2	19.8	20.4
	Hi Pr	243	261	276	288	273	293	310	323	310	334	352	367	353	380	401	419	397	427	451	471	439	472	499	520
	Lo Pr	110	117	127	136	116	123	135	143	121	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170
	MBh	45.0	46.3	50.1	53.8	43.9	45.2	49.0	52.6	42.9	44.2	47.8	51.3	41.9	43.1	46.6	50.1	39.8	40.9	44.3	47.6	36.8	37.9	41.0	44.0
	S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
kW	3.29	3.36	3.46	3.57	3.53	3.61	3.72	3.84	3.75	3.83	3.95	4.08	3.94	4.03	4.16	4.29	4.11	4.20	4.33	4.48	4.25	4.34	4.48	4.63	
Amps	13.7	14.0	14.4	14.8	14.6	14.9	15.4	15.9	15.7	16.1	16.6	17.1	16.7	17.1	17.6	18.2	17.7	18.0	18.6	19.2	18.6	19.0	19.6	20.3	
Hi Pr	241	259	273	285	270	290	307	320	307	330	349	364	350	376	397	414	393	423	447	466	435	468	494	515	
Lo Pr	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	153	162	136	145	158	168	
MBh	41.5	42.8	46.3	49.7	40.6	41.8	45.2	48.5	39.6	40.8	44.1	47.4	38.6	39.8	43.0	46.2	36.7	37.8	40.9	43.9	34.0	35.0	37.9	40.7	
S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.95	0.85	0.65	0.42	
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	
kW	3.21	3.28	3.38	3.48	3.45	3.52	3.63	3.75	3.66	3.74	3.86	3.98	3.85	3.93	4.06	4.19	4.01	4.09	4.22	4.36	4.14	4.23	4.37	4.52	
Amps	13.4	13.6	14.0	14.5	14.3	14.6	15.0	15.5	15.4	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	19.8	
Hi Pr	233	251	265	277	262	282	298	310	298	320	338	353	339	365	385	402	382	411	434	452	422	454	479	500	
Lo Pr	105	112	122	130	111	118	129	138	116	123	134	143	122	129	141	150	127	136	148	158	132	140	153	163	

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

EXPANDED COOLING DATA — GPH1348M41A (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	47.2	48.2	51.5	55.0	46.1	47.1	50.3	53.8	45.0	46.0	49.1	52.5	43.9	44.8	47.9	51.2	41.7	42.6	45.5	48.6	38.6	39.5	42.1	45.1
	S/T	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.86	0.64	1.00	1.00	0.87	0.65
	ΔT	22	21	19	15	22	22	19	15	21	21	19	15	21	21	19	15	20	20	19	15	18	19	17	14
	kW	3.34	3.41	3.51	3.62	3.59	3.67	3.78	3.90	3.81	3.89	4.02	4.15	4.01	4.10	4.23	4.37	4.17	4.27	4.40	4.55	4.32	4.41	4.56	4.71
	Amps	13.9	14.2	14.6	15.1	14.9	15.2	15.6	16.1	16.0	16.3	16.8	17.4	17.0	17.3	17.9	18.5	17.9	18.3	18.9	19.6	18.9	19.3	19.9	20.6
	Hi Pr	245	264	279	291	275	296	313	326	313	337	356	371	357	384	405	423	401	432	456	476	443	477	504	525
	Lo Pr	111	118	129	137	117	125	136	145	122	130	141	151	128	136	149	158	134	143	156	166	139	147	161	171
	MBh	45.8	46.8	50.0	53.4	44.7	45.7	48.8	52.2	43.7	44.6	47.7	51.0	42.6	43.5	46.5	49.7	40.5	41.3	44.2	47.2	37.5	38.3	40.9	43.7
	S/T	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
	ΔT	23	22	19	15	23	22	20	16	23	23	20	16	23	23	20	16	22	22	19	16	20	20	18	14
	kW	3.31	3.38	3.49	3.60	3.56	3.64	3.75	3.87	3.78	3.86	3.99	4.12	3.98	4.06	4.19	4.33	4.14	4.23	4.37	4.51	4.28	4.38	4.52	4.67
	Amps	13.8	14.1	14.5	14.9	14.7	15.1	15.5	16.0	15.9	16.2	16.7	17.2	16.8	17.2	17.7	18.3	17.8	18.2	18.7	19.4	18.8	19.2	19.8	20.4
Hi Pr	243	261	276	288	273	293	310	323	310	334	352	367	353	380	401	419	397	428	451	471	439	472	499	520	
Lo Pr	110	117	127	136	116	123	135	143	121	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170	
MBh	42.3	43.2	46.1	49.3	41.3	42.2	45.1	48.2	40.3	41.2	44.0	47.0	39.3	40.2	42.9	45.9	37.3	38.2	40.8	43.6	34.6	35.4	37.8	40.4	
S/T	0.91	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.04	0.97	0.79	0.59	1.05	0.98	0.80	0.60	
ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15	
kW	3.24	3.30	3.40	3.51	3.48	3.55	3.66	3.78	3.69	3.77	3.89	4.01	3.88	3.96	4.09	4.22	4.04	4.13	4.26	4.40	4.18	4.27	4.41	4.55	
Amps	13.5	13.7	14.1	14.6	14.4	14.7	15.1	15.6	15.5	15.8	16.3	16.8	16.4	16.8	17.3	17.9	17.4	17.7	18.3	18.9	18.3	18.7	19.3	19.9	
Hi Pr	236	254	268	279	284	285	301	313	301	324	342	356	343	369	389	406	385	415	438	457	426	458	484	505	
Lo Pr	106	113	124	132	112	120	131	139	117	124	136	145	123	131	143	152	129	137	149	159	133	142	155	165	

85	MBh	48.0	48.9	51.2	54.7	46.9	47.8	50.0	53.4	45.8	46.6	48.8	52.1	44.6	45.5	47.7	50.8	42.4	43.2	45.3	48.3	39.3	40.0	41.9	44.7
	S/T	1.00	1.00	0.91	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.81	1.00	1.00	1.00	0.84	1.00	1.00	1.00	0.84
	ΔT	23	23	22	19	22	23	22	19	22	22	22	19	21	22	23	20	20	21	22	19	19	19	20	18
	kW	3.37	3.44	3.54	3.65	3.62	3.70	3.81	3.93	3.84	3.93	4.05	4.18	4.04	4.13	4.26	4.40	4.21	4.30	4.44	4.59	4.35	4.45	4.60	4.75
	Amps	14.0	14.3	14.7	15.2	15.0	15.3	15.7	16.3	16.1	16.5	17.0	17.5	17.1	17.5	18.0	18.6	18.1	18.5	19.1	19.7	19.1	19.5	20.1	20.8
	Hi Pr	248	267	282	294	278	299	316	330	316	340	359	375	360	388	409	427	405	436	461	480	448	482	509	531
	Lo Pr	112	119	130	139	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	163	173
	MBh	46.6	47.5	49.7	53.1	45.5	46.4	48.6	51.8	44.4	45.3	47.4	50.6	43.3	44.2	46.3	49.4	41.2	42.0	44.0	46.9	38.1	38.9	40.7	43.4
	S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
	ΔT	25	24	23	20	24	25	23	20	24	24	23	20	23	24	23	20	22	22	23	20	20	21	22	19
	kW	3.34	3.41	3.51	3.62	3.59	3.67	3.78	3.90	3.81	3.89	4.02	4.15	4.01	4.10	4.23	4.37	4.17	4.27	4.40	4.55	4.32	4.41	4.56	4.71
	Amps	13.9	14.2	14.6	15.1	14.9	15.2	15.6	16.1	16.0	16.3	16.8	17.4	17.0	17.3	17.9	18.5	17.9	18.3	18.9	19.6	18.9	19.3	19.9	20.6
Hi Pr	245	264	279	291	275	296	313	326	313	337	356	371	357	384	405	423	401	432	456	476	443	477	504	525	
Lo Pr	111	118	129	137	117	125	136	145	122	130	141	151	128	136	149	158	134	143	156	166	139	147	161	171	
MBh	43.0	43.8	45.9	49.0	42.0	42.8	44.8	47.8	41.0	41.8	43.8	46.7	40.0	40.8	42.7	45.6	38.0	38.7	40.6	43.3	35.2	35.9	37.6	40.1	
S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78	
ΔT	25	25	23	20	25	25	24	20	25	25	24	20	24	25	24	21	23	24	23	20	21	22	22	19	
kW	3.26	3.33	3.43	3.54	3.51	3.58	3.69	3.81	3.72	3.80	3.92	4.05	3.91	3.99	4.12	4.26	4.07	4.16	4.30	4.44	4.21	4.30	4.44	4.59	
Amps	13.6	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	18.4	19.1	18.4	18.8	19.4	20.1	
Hi Pr	238	256	270	282	267	287	304	317	304	327	345	360	346	372	393	410	389	419	442	461	430	463	489	510	
Lo Pr	108	114	125	133	114	121	132	141	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166	

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

EXPANDED COOLING DATA — GPH1360M41A

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	AIRFLOW																							
	MBh																							
	S/T																							
	ΔT																							
	kW																							
	Amps																							
	Hi Pr																							
	Lo Pr																							
	MBh																							
	S/T																							
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								
MBh																								
S/T																								
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								

75	AIRFLOW																							
	MBh																							
	S/T																							
	ΔT																							
	kW																							
	Amps																							
	Hi Pr																							
	Lo Pr																							
	MBh																							
	S/T																							
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								
MBh																								
S/T																								
ΔT																								
kW																								
Amps																								
Hi Pr																								
Lo Pr																								

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

EXPANDED COOLING DATA — GPH1360M41A (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	56.8	58.0	62.0	66.3	55.5	56.7	60.6	64.7	54.2	55.3	59.1	63.2	52.8	54.0	57.7	61.7	50.2	51.3	54.8	58.6	46.5	47.5	50.8	54.3
	S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.80	0.60
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	21	22	18	15
	kW	4.10	4.19	4.31	4.45	4.41	4.50	4.64	4.78	4.67	4.77	4.92	5.08	4.91	5.02	5.18	5.35	5.11	5.22	5.39	5.57	5.29	5.40	5.58	5.76
	Amps	17.3	17.6	18.1	18.7	18.5	18.9	19.4	20.1	19.9	20.3	20.9	21.6	21.1	21.6	22.2	23.0	22.3	22.8	23.5	24.3	23.5	24.1	24.8	25.7
	Hi Pr	246	265	280	292	276	297	314	327	314	338	357	372	358	385	407	424	403	433	458	477	445	479	506	527
	Lo Pr	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	139	151	161	135	143	156	167
	MBh	55.1	56.3	60.2	64.4	53.9	55.0	58.8	62.9	52.6	53.7	57.4	61.4	51.3	52.4	56.0	59.9	48.7	49.8	53.2	56.9	45.1	46.1	49.3	52.7
	S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
	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
	kW	4.07	4.15	4.28	4.41	4.37	4.46	4.60	4.75	4.64	4.74	4.88	5.04	4.87	4.98	5.14	5.30	5.07	5.18	5.35	5.52	5.24	5.36	5.53	5.71
	Amps	17.1	17.5	18.0	18.6	18.3	18.7	19.3	19.9	19.7	20.2	20.8	21.5	20.9	21.4	22.0	22.8	22.2	22.6	23.3	24.1	23.3	23.9	24.6	25.5
Hi Pr	244	262	277	289	274	294	311	324	311	335	354	369	354	381	403	420	399	429	453	473	440	474	501	522	
Lo Pr	107	113	124	132	113	120	131	139	117	125	136	145	123	131	143	152	129	137	150	159	133	142	155	165	
MBh	50.9	52.0	55.6	59.4	49.7	50.8	54.3	58.0	48.5	49.6	53.0	56.6	47.3	48.4	51.7	55.3	45.0	46.0	49.1	52.5	41.7	42.6	45.5	48.6	
S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.66	0.50	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	0.96	0.90	0.74	0.55	
ΔT	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	20	16	
kW	3.98	4.06	4.18	4.31	4.27	4.36	4.49	4.63	4.53	4.62	4.77	4.92	4.75	4.86	5.01	5.17	4.95	5.05	5.22	5.39	5.12	5.23	5.39	5.57	
Amps	16.7	17.1	17.6	18.1	17.9	18.3	18.8	19.4	19.3	19.7	20.2	20.9	20.4	20.9	21.5	22.2	21.6	22.1	22.7	23.5	22.8	23.3	24.0	24.8	
Hi Pr	236	255	269	280	265	286	302	315	302	325	343	358	344	370	391	407	387	416	439	458	427	460	486	506	
Lo Pr	103	110	120	128	109	116	127	135	114	121	132	141	119	127	139	148	125	133	145	155	129	138	150	160	
85	MBh	57.8	58.9	61.7	65.8	56.4	57.5	60.3	64.3	55.1	56.2	58.8	62.8	53.8	54.8	57.4	61.2	51.1	52.1	54.5	58.2	47.3	48.2	50.5	53.9
	S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	25	25	23	20	25	25	24	20	25	25	24	20	24	25	24	21	23	24	24	20	21	22	22	19
	kW	4.13	4.22	4.35	4.48	4.44	4.53	4.67	4.82	4.71	4.81	4.96	5.12	4.95	5.06	5.22	5.39	5.15	5.27	5.44	5.61	5.33	5.45	5.62	5.81
	Amps	17.4	17.8	18.3	18.9	18.6	19.0	19.6	20.2	20.1	20.5	21.1	21.8	21.3	21.8	22.4	23.2	22.5	23.0	23.7	24.5	23.7	24.3	25.0	25.9
	Hi Pr	249	268	283	295	279	300	317	331	317	342	361	376	361	389	411	428	407	438	462	482	449	484	511	533
	Lo Pr	109	116	126	135	115	122	134	142	119	127	139	148	126	134	146	155	132	140	153	163	136	145	158	168
	MBh	56.1	57.2	59.9	63.9	54.8	55.9	58.5	62.4	53.5	54.5	57.1	60.9	52.2	53.2	55.7	59.4	49.6	50.5	52.9	56.5	45.9	46.8	49.0	52.3
	S/T	0.91	0.88	0.79	0.64	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
	ΔT	26	26	24	21	26	26	25	21	27	26	25	21	27	26	25	21	25	26	24	21	23	24	23	20
	kW	4.10	4.19	4.31	4.45	4.41	4.50	4.64	4.78	4.67	4.77	4.92	5.08	4.91	5.02	5.18	5.35	5.11	5.22	5.39	5.57	5.29	5.40	5.58	5.76
	Amps	17.3	17.6	18.1	18.7	18.5	18.9	19.4	20.1	19.9	20.3	20.9	21.6	21.1	21.6	22.2	23.0	22.3	22.8	23.5	24.3	23.5	24.1	24.8	25.7
Hi Pr	246	265	280	292	276	297	314	327	314	338	357	372	358	385	407	424	403	433	458	477	445	479	506	527	
Lo Pr	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	139	151	161	135	143	156	167	
MBh	51.8	52.8	55.3	59.0	50.6	51.6	54.0	57.6	49.4	50.3	52.7	56.2	48.2	49.1	51.4	54.9	45.8	46.7	48.9	52.1	42.4	43.2	45.3	48.3	
S/T	0.88	0.85	0.77	0.62	0.91	0.88	0.79	0.64	0.94	0.90	0.81	0.66	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.98	0.88	0.71	
ΔT	27	26	25	21	27	26	25	22	27	26	25	22	27	27	25	22	27	26	25	22	25	25	23	20	
kW	4.01	4.09	4.21	4.34	4.30	4.39	4.53	4.67	4.56	4.66	4.81	4.96	4.79	4.89	5.05	5.21	4.99	5.10	5.26	5.43	5.16	5.27	5.44	5.62	
Amps	16.9	17.2	17.7	18.3	18.0	18.4	19.0	19.6	19.4	19.8	20.4	21.1	20.6	21.0	21.7	22.4	21.8	22.3	22.9	23.7	22.9	23.5	24.2	25.0	
Hi Pr	239	257	271	283	268	288	305	318	305	328	346	361	347	374	395	411	391	420	444	463	432	464	490	511	
Lo Pr	105	111	121	129	110	117	128	137	115	122	133	142	121	128	140	149	126	134	147	156	131	139	152	162	

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

AIRFLOW DATA

MODEL	MOTOR TAP 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
GPH13 24M41*	Low	230	CFM	667	596	-----	-----	-----	-----	-----	-----
			Watts	153	150	-----	-----	-----	-----	-----	-----
	Med	230	CFM	897	841	784	713	610	-----	-----	-----
			Watts	233	229	224	217	207	-----	-----	-----
	High	230	CFM	1242	1181	1122	1057	982	883	719	617
			Watts	373	364	354	344	333	318	298	284
GPH13 30M41*	Low	230	CFM	1097	1059	1016	959	901	818	648	562
			Watts	337	330	324	315	305	290	271	257
	Med	230	CFM	1253	1204	1148	1097	1033	952	777	670
			Watts	397	388	379	369	356	342	313	297
	High	230	CFM	1448	1380	1323	1258	1194	1106	1008	864
			Watts	499	483	472	459	446	427	410	382
GPH13 36M41*	Low	230	CFM	1122	1078	1032	972	915	804	687	558
			Watts	338	330	321	310	300	283	264	250
	Med	230	CFM	1387	1331	1264	1209	1119	1041	935	748
			Watts	456	440	428	412	399	382	363	330
	High	230	CFM	1521	1454	1388	1311	1230	1144	1055	939
			Watts	534	521	510	490	477	461	442	420
GPH13 42M41*	Low	230	CFM	1122	1078	1032	972	915	804	687	558
			Watts	338	330	321	310	300	283	264	250
	Med	230	CFM	1387	1331	1264	1209	1119	1041	935	748
			Watts	456	440	428	412	399	382	363	330
	High	230	CFM	1521	1454	1388	1311	1230	1144	1055	939
			Watts	534	521	510	490	477	461	442	420
GPH13 48M41*	T1 (G)	230	CFM	1,440	1,395	1,360	1,310	1,265	1,235	1,190	1,130
			Watts	275	285	295	315	325	335	345	355
	T2 / T3 (W2)	230	CFM	1,795	1,765	1,715	1,695	1,650	1,600	1,500	1,375
			Watts	475	490	505	520	530	535	510	475
	T4 / T5 (Y)	230	CFM	1,860	1,820	1,785	1,745	1,700	1,625	1,515	1,395
			Watts	515	530	545	565	570	550	535	485
GPH13 60M41*	T1 (G)	230	CFM	1,755	1,720	1,685	1,645	1,615	1,570	1,530	1,465
			Watts	420	435	455	460	475	490	500	500
	T2 / T3 (W2)	230	CFM	1,850	1,820	1,775	1,735	1,705	1,675	1,610	1,495
			Watts	480	500	515	525	535	555	545	520
	T4 / T5 (Y)	230	CFM	2,180	2,125	2,050	1,975	1,875	1,800	1,655	1,530
			Watts	770	755	725	700	675	640	575	540

Notes:

- Data shown is dry coil. Wet coil pressure drop is approximately 0.1" H₂O, for two-row indoor coil; 0.2" H₂O, for three-row indoor coil; and 0.3" H₂O, for four-row indoor coil.
- Data shown does not include filter pressure drop, approximately 0.08" H₂O.
- ALL MODELS SHOULD RUN NO LESS THAN 350 CFM/TON. USE HIGHER SPEED TAP OR NEXT SIZE LARGER BLOWER ASM. See Repair Parts list.
- Reduce airflow by 2% for 208-volt operation.

EXPANDED HEATING DATA

GPH1324M41*

	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	16.7	15.4	14.2	13.4	12.9	11.6	10.3	9.0	7.6	6.3
T/R	32.4	30.7	28.9	27.0	25.8	25.0	23.2	21.4	18.8	17.3	15.9	15.1	14.5	13.0	11.5	10.1	8.6	7.0
kW	2.14	2.10	2.06	2.01	1.99	1.97	1.94	1.89	2.32	2.26	2.21	2.18	2.16	2.10	2.05	2.00	1.95	1.89
Amps	10.4	9.8	9.2	8.8	8.5	8.4	8.0	7.7	7.4	7.1	6.9	6.7	6.7	6.4	6.1	5.8	5.5	5.1
COP	3.96	3.82	3.67	3.50	3.38	3.30	3.13	2.95	2.11	1.99	1.88	1.80	1.75	1.61	1.47	1.31	1.15	0.97
EER	13.5	13.1	12.5	12.0	11.5	11.3	10.7	10.1	7.2	6.8	6.4	6.2	6.0	5.5	5.0	4.5	3.9	3.3
Hi Pr	379	364	350	334	326	320	308	295	283	270	260	253	249	239	230	221	213	205
Lo Pr	135	126	118	108	102	98	90	80	73	65	57	53	51	43	37	31	27	22

Above information is for nominal CFM and 70° indoor dry bulb; instantaneous capacity listed. Amps: Unit amps (comp.+ evap motor + condenser fan motor)
 High pressure measured at liquid line access fitting; Low pressure measured at compressor suction access fitting. kW = Total system power

GPH1330M41*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	36.2	34.3	32.3	30.2	28.8	27.9	25.9	23.9	21.2	19.6	18.0	17.0	16.4	14.7	13.0	11.4	9.7	7.9
T/R	31.9	30.2	28.4	26.6	25.4	24.6	22.9	21.1	18.7	17.3	15.9	15.0	14.4	13.0	11.5	10.0	8.6	7.0
kW	2.74	2.68	2.63	2.58	2.55	2.53	2.48	2.43	2.29	2.24	2.19	2.17	2.15	2.10	2.05	2.00	1.95	1.90
Amps	13.6	12.7	12.0	11.4	11.1	10.9	10.4	9.9	9.6	9.2	8.9	8.7	8.6	8.2	7.8	7.5	7.0	6.5
COP	3.87	3.74	3.59	3.42	3.30	3.23	3.06	2.88	2.71	2.55	2.40	2.30	2.23	2.05	1.86	1.66	1.46	1.22
EER	13.2	12.8	12.3	11.7	11.3	11.0	10.5	9.8	9.2	8.7	8.2	7.9	7.6	7.0	6.4	5.7	5.0	4.2
Hi Pr	375	359	346	330	323	316	304	292	280	267	256	250	246	236	227	218	210	203
Lo Pr	131	122	114	105	99	95	88	78	70	63	55	51	49	42	36	30	27	21

Above information is for nominal CFM and 70° indoor dry bulb; instantaneous capacity listed. Amps: Unit amps (comp.+ evap motor + condenser fan motor)
 High pressure measured at liquid line access fitting; Low pressure measured at compressor suction access fitting. kW = Total system power

GPH1336M41*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	43.0	40.7	38.3	35.8	34.2	33.1	30.8	28.4	24.4	22.6	20.8	19.6	18.9	17.0	15.0	13.1	11.2	9.2
T/R	34.6	32.8	30.8	28.8	27.5	26.7	24.8	22.9	19.7	18.2	16.7	15.8	15.2	13.6	12.1	10.6	9.0	7.4
kW	3.10	3.04	2.98	2.92	2.89	2.86	2.81	2.75	2.36	2.31	2.26	2.24	2.22	2.17	2.12	2.07	2.02	1.97
Amps	15.4	14.4	13.6	12.9	12.5	12.3	11.7	11.1	10.7	10.3	9.9	9.7	9.6	9.2	8.7	8.3	7.8	7.2
COP	4.06	3.92	3.76	3.58	3.46	3.39	3.21	3.02	3.03	2.86	2.69	2.57	2.50	2.29	2.08	1.85	1.62	1.36
EER	13.9	13.4	12.8	12.2	11.8	11.6	11.0	10.3	10.4	9.8	9.2	8.8	8.5	7.8	7.1	6.3	5.5	4.6
Hi Pr	403	386	371	355	347	340	327	314	300	287	276	269	264	254	244	234	226	218
Lo Pr	137	127	119	109	103	99	91	81	73	66	58	54	52	44	38	32	28	22

Above information is for nominal CFM and 70° indoor dry bulb; instantaneous capacity listed. Amps: Unit amps (comp.+ evap motor + condenser fan motor)
 High pressure measured at liquid line access fitting; Low pressure measured at compressor suction access fitting. kW = Total system power

EXPANDED HEATING DATA (CONT.)

GPH1342M41*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	50.3	47.6	44.8	41.9	40.0	38.8	36.0	33.2	27.5	25.4	23.4	22.1	21.3	19.1	16.9	14.8	12.6	10.3
T/R	35.8	33.9	31.9	29.8	28.5	27.6	25.6	23.6	19.6	18.1	16.7	15.7	15.1	13.6	12.0	10.5	9.0	7.3
kW	3.58	3.52	3.45	3.38	3.34	3.31	3.25	3.18	2.31	2.27	2.23	2.20	2.18	2.14	2.09	2.05	2.01	1.96
Amps	17.6	16.5	15.6	14.8	14.3	14.1	13.4	12.8	12.3	11.9	11.4	11.2	11.1	10.6	10.0	9.6	9.0	8.3
COP	4.11	3.96	3.80	3.62	3.50	3.42	3.24	3.05	3.48	3.27	3.07	2.94	2.85	2.61	2.36	2.11	1.84	1.54
EER	14.0	13.5	13.0	12.4	12.0	11.7	11.1	10.4	11.9	11.2	10.5	10.0	9.7	8.9	8.1	7.2	6.3	5.3
Hi Pr	323	310	298	285	278	273	262	252	241	230	221	216	212	204	196	188	181	175
Lo Pr	141	131	122	112	106	102	94	84	75	67	59	55	53	45	39	33	29	22

Above information is for nominal CFM and 70° indoor dry bulb; instantaneous capacity listed. Amps: Unit amps (comp.+ evap motor + condenser fan motor)
 High pressure measured at liquid line access fitting; Low pressure measured at compressor suction access fitting. kW = Total system power

GPH1348M41*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	57.2	54.1	51.0	47.6	45.5	44.1	41.0	37.8	32.8	30.2	27.8	26.3	25.3	22.7	20.1	17.6	15.0	12.3
T/R	30.8	29.1	27.4	25.6	24.5	23.7	22.0	20.3	17.6	16.3	15.0	14.2	13.6	12.2	10.8	9.5	8.1	6.6
kW	3.90	3.83	3.75	3.68	3.63	3.60	3.53	3.46	2.48	2.43	2.38	2.36	2.34	2.29	2.24	2.19	2.14	2.09
Amps	19.0	17.7	16.7	15.8	15.3	15.0	14.3	13.7	13.1	12.6	12.1	11.9	11.8	11.2	10.6	10.1	9.5	8.7
COP	4.29	4.14	3.97	3.79	3.66	3.58	3.39	3.20	3.86	3.64	3.42	3.27	3.17	2.91	2.63	2.35	2.05	1.72
EER	14.7	14.1	13.6	13.0	12.5	12.2	11.6	10.9	13.2	12.4	11.7	11.2	10.8	9.9	9.0	8.0	7.0	5.9
Hi Pr	372	357	343	328	320	314	302	290	278	265	255	249	244	235	226	217	209	202
Lo Pr	130	121	113	104	98	95	87	77	70	62	55	51	49	42	36	30	26	21

Above information is for nominal CFM and 70° indoor dry bulb; instantaneous capacity listed. Amps: Unit amps (comp.+ evap motor + condenser fan motor)
 High pressure measured at liquid line access fitting; Low pressure measured at compressor suction access fitting. kW = Total system power

GPH1360M41*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.8	66.0	62.2	58.1	55.5	53.8	50.0	46.1	39.1	36.1	33.3	31.4	30.3	27.1	24.1	21.0	17.9	14.7
T/R	35.9	34.0	32.0	29.9	28.5	27.7	25.7	23.7	20.1	18.6	17.1	16.2	15.6	14.0	12.4	10.8	9.2	7.5
kW	4.80	4.71	4.62	4.53	4.47	4.44	4.35	4.26	2.41	2.36	2.32	2.30	2.28	2.24	2.20	2.16	2.12	2.08
Amps	24.1	22.5	21.2	20.1	19.4	19.1	18.1	17.3	16.7	16.0	15.4	15.0	14.9	14.2	13.4	12.8	12.0	11.0
COP	4.25	4.10	3.94	3.76	3.63	3.55	3.36	3.17	4.76	4.47	4.19	4.00	3.88	3.54	3.20	2.84	2.47	2.06
EER	14.5	14.0	13.5	12.8	12.4	12.1	11.5	10.8	16.3	15.3	14.3	13.7	13.2	12.1	10.9	9.7	8.4	7.1
Hi Pr	385	369	354	339	331	325	312	300	287	274	263	257	252	243	233	224	216	208
Lo Pr	134	124	116	107	101	97	89	80	72	64	56	52	50	43	37	31	27	21

Above information is for nominal CFM and 70° indoor dry bulb; instantaneous capacity listed. Amps: Unit amps (comp.+ evap motor + condenser fan motor)
 High pressure measured at liquid line access fitting; Low pressure measured at compressor suction access fitting. kW = Total system power

HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

GPH13M HEAT KIT MATCH-UPS	CIRCUIT #1		CIRCUIT #2		ACTUAL KW / BTU@ 240V
	MCA ¹	MOP ²	MCA ¹	MOP ²	
GPH1324M41**	1.5 / 1.5	--	--	--	--
HKR-05*, HKR-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
GPH1330M41**	1.5 / 1.5	--	--	--	--
HKR-05*, HKR-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1336M41**	1.9 / 1.9	--	--	--	--
HKR-05*, HKR-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1342M41**	1.9 / 1.9	--	--	--	--
HKR-05*, HKR-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1348M41**	5.8 / 5.8	--	--	--	--
HKR-05*, HKR-05C*	25 / 28	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	38 / 40	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	49 / 56	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	49 / 56	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR-20*, HKR-20C*	49 / 56	60 / 60	43 / 49	60 / 60	19.5 / 66,500
GPH1360M41**	7.6 / 7.6	--	--	--	--
HKR-05*, HKR-05C*	29 / 30	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	39 / 40	40 / 40	--	--	7.0 / 23,800
HKR-10*, HKR-10C*	51 / 58	60 / 60	--	--	9.5 / 32,400
HKR-15*, HKR-15C*	51 / 58	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR-20*, HKR-20C*	51 / 58	60 / 60	43 / 49	60 / 60	19.5 / 66,500

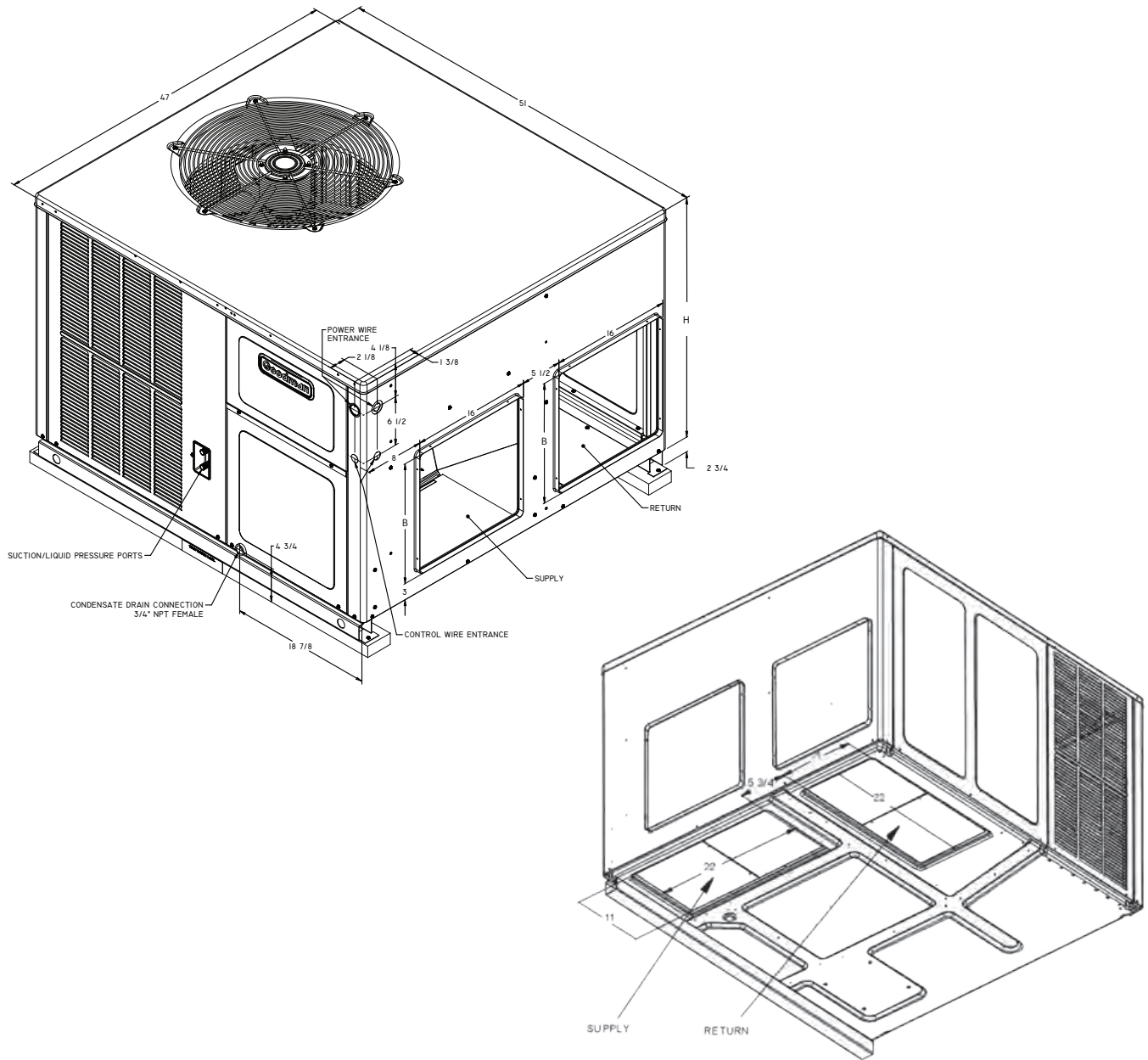
¹ Minimum Circuit Ampacity @ 208 / 240 V

² Maximum Overcurrent Protection device @ 208 / 240 V

* Revision level that may or may not be designated

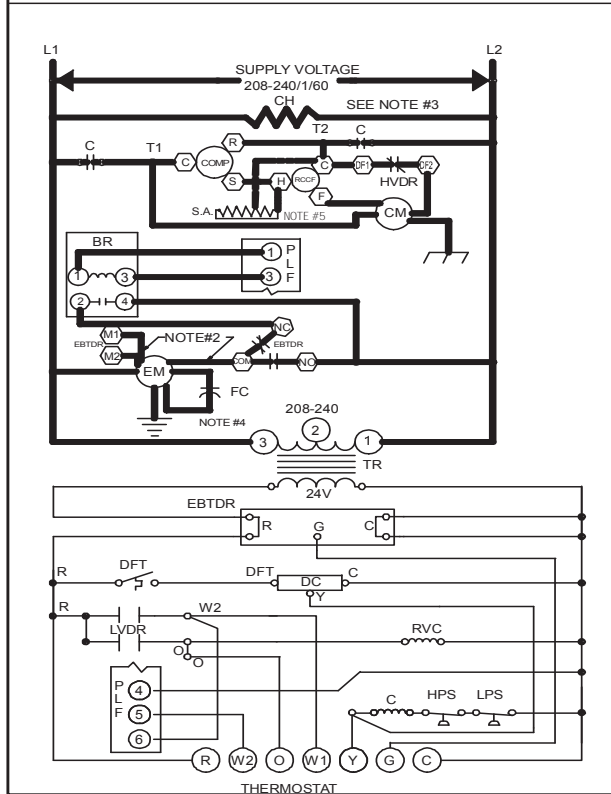
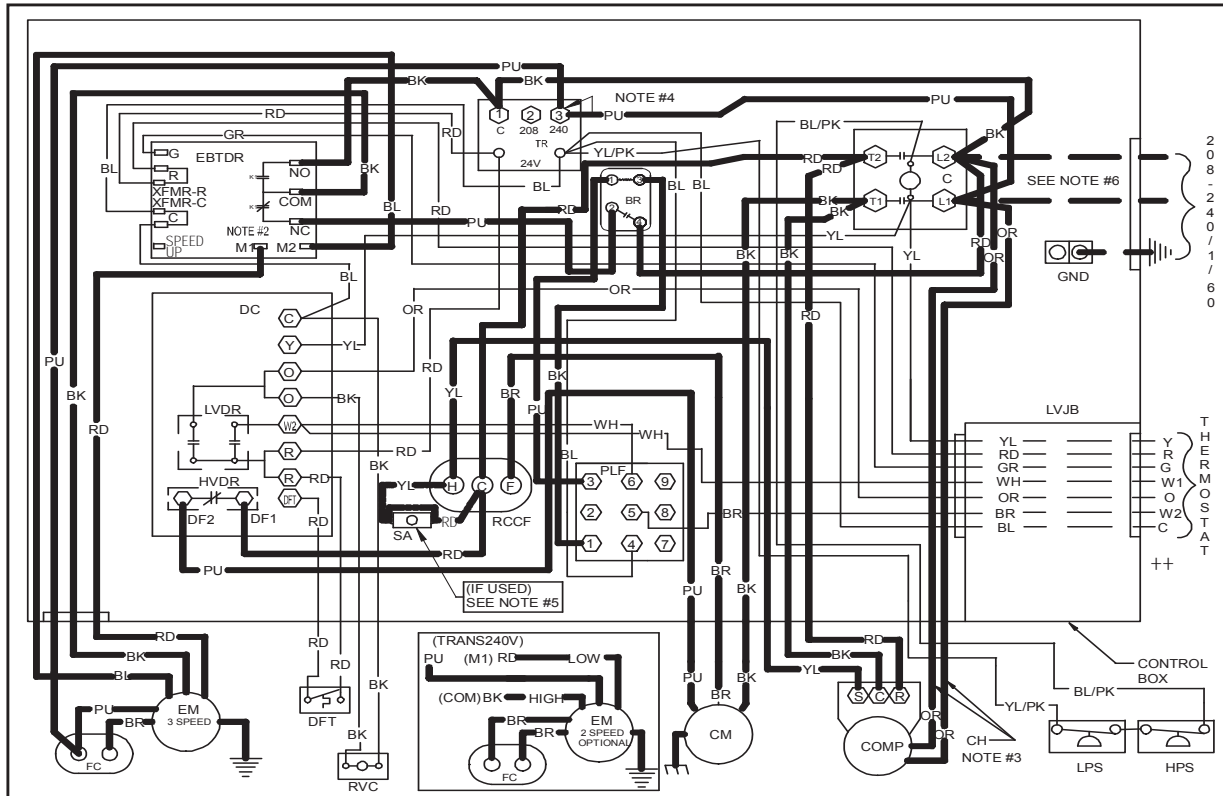
C Circuit Breaker option

DIMENSIONS



MODEL	MEDIUM	LARGE	W"	D"	H"	B	H
GPH1324M41	X		47	51	34 ³ / ₄	16"	32 ¹ / ₂ "
GPH1330M41	X		47	51	34 ³ / ₄	16"	32 ¹ / ₂ "
GPH1336M41	X		47	51	34 ³ / ₄	16"	32 ¹ / ₂ "
GPH1342M41	X		47	51	34 ³ / ₄	16"	32 ¹ / ₂ "
GPH1348M41		X	47	51	42 ³ / ₄	18"	40"
GPH1360M41		X	47	51	42 ³ / ₄	18"	40"

WIRING DIAGRAM — GPH1324-42M41AA



COMPONENT LEGEND		FACTORY WIRING	
BR	BLOWER INTERLOCK RELAY	—	LINE VOLTAGE
C	CONTACTOR	—	LOW VOLTAGE
CH	CRANKCASE HEATER	—	OPTIONAL HIGH VOLTAGE
CM	CONDENSER MOTOR	—	VOLTAGE
COMP	COMPRESSOR	—	FIELD WIRING
DC	DEFROST CONTROL	—	HIGH VOLTAGE
DFT	DEFROST THERMOSTAT	—	LOW VOLTAGE
EBTDR	ELECTRONIC BLOWER TIME DELAY RELAY		
EM	EVAPORATOR MOTOR		
FC	FAN CAPACITOR		
GND	EQUIPMENT GROUND		
HVDR	HIGH VOLTAGE DEFROST RELAY		
LPS	LOW PRESSURE SWITCH		
LVJB	LOW VOLTAGE JUNCTION BOX		
PLF	FEMALE PLUG / CONNECTOR		
RVC	REVERSING VALVE COIL		
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN		
SA	START ASSIST		
TR	TRANSFORMER		
HPS	HIGH PRESSURE SWITCH		

WIRE CODE	
BK	BLACK
BL	BLUE
BR	BROWN
GR	GREEN
OR	ORANGE
PU	PURPLE
RD	RED
WH	WHITE
YL	YELLOW
BL/PK	BLUE/PINK
YL/PK	YELLOW/PINK

- NOTES:**
- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
 - TO CHANGE EVAPORATOR MOTOR SPEED REPLACE LEAD ON EBTDR "COM" WITH LEAD ON EBTDR "M1" OR "M2"
 - CRANKCASE HEAT NOT SUPPLIED ON ALL UNITS.
 - FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
 - START ASSIST FACTOR EQUIPPED WHEN REQUIRED
 - USE COPPER CONDUCTORS ONLY
 - ++ USE N.E.C. CLASS 2 WIRE

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION
208-240/1/60 0140G01243 REV. A

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



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.

