



Air Conditioning & Heating

GPH15M

PACKAGED HEAT PUMP

2 TO 5 TONS

UP TO 15 SEER

UP TO 8.0 HSPF

COOLING CAPACITY: 24,000 - 55,600 BTU/H

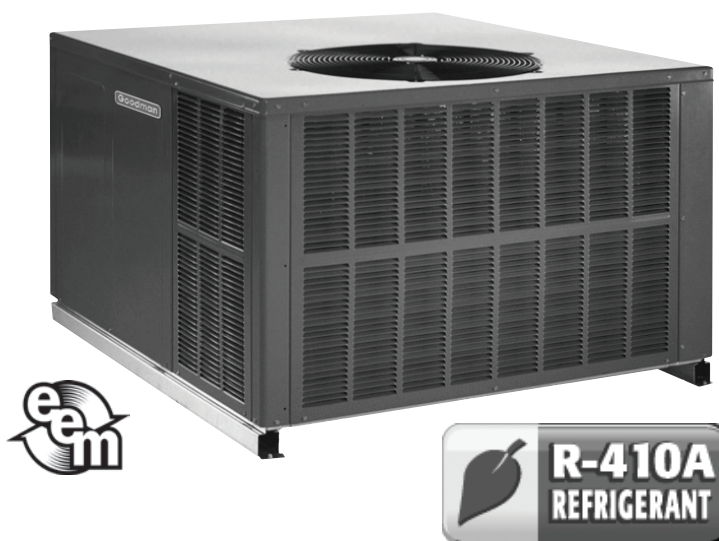
HEATING CAPACITY: 23,400 - 56,000 BTU/H

Standard Features

- High-efficiency compressor with internal relief valve
- Fully charged R-410A system
- EEM (X-13) blower motor
- Liquid-line filter drier
- Convertible airflow — horizontal or downflow
- Copper tube/aluminum fin 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



Contents

Nomenclature	2
Product Specifications	3
Expanded Cooling Data	4
Airflow Data	28
Expanded Heating Data	30
Auxiliary Heating Data	33
Heat Kit Electrical Specs	35
Dimensions	36
Wiring Diagrams	37
Accessories	39



* 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

	G	P	H	15	36	M	4	1	A	*
	1	2	3	4,5	6,7	8	9	10	11	12
Brand										Engineering
G Goodman or Distinctions™										Minor Revision
Product Category										Engineering
P Packaged Unit										Major Revision
Type										Voltage Designator
H Heat Pump										1 208-230/1/60
C Air Conditioner										3 208-230/3/60
										4 460/3/60
Efficiency										Refrigerant
13 13 SEER 15 15 SEER										2 R-22
14 14 SEER 16 16 SEER										4 R-410A
Nominal Capacity										Configuration
24 2 Tons 42 3½ Tons										H Horizontal
30 2½ tons 48 4 Tons										M Multi-position
36 3 Tons 60 5 Tons										



Important EnergyStar Notice: EnergyStar ratings are dependent upon conditions beyond equipment installation. Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet EnergyStar criteria. Ask your contractor for details or visit www.energystar.gov.

SPECIFICATIONS

	GPH15 24M41A*	GPH15 30M41A*	GPH15 36M41A*	GPH15 42M41A*	GPH15 43M41A*	GPH15 48M41A*	GPH15 49M41A*	GPH15 60M41A*
COOLING CAPACITY								
Total BTU/h	24,000	29,000	35,400	41,000	40,000	46,500	46,000	55,500
Sensible BTU/h	18,000	22,200	26,700	29,000	28,000	35,600	31,000	39,300
SEER / EER	15.0/ 12.0	14.5/ 11.5	14.5/ 12.0	15.0/ 11.0	15.0/ 12.0	15/ 11.3	15.0/ 11.7	14.0/ 10.2
Decibels	76	76	76	76	78	78	78	78
AHRI #s	4385138	4385139	4385140	4385141	4385142	4385143	4385144	4385145
HEATING CAPACITY								
BUT/h (47°F)	23,400	27,400	33,300	40,000	39,000	45,500	45,500	56,000
C.O.P (47°F)	3.5	3.6	3.4	3.5	3.75	3.4	3.6	3.3
BUT/h (17°F)	12,400	15,200	18,600	20,000	22,000	24,600	25,000	31,400
C.O.P (17°F)	2.2	2.3	2.4	2.2	2.5	2.1	2.2	2.1
HSPF	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
EVAPORATOR MOTOR								
Type	EEM	EEM	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	10 x 9	10 x 9
Nominal Cooling CFM	860	1,000	1,200	1,250	1,250	1,700	1,350	1,800
FLA	4.1	4.1	4.1	4.1	2.9	5.8	2.9	7.6
No. of Speeds	5	5	5	5	5	5	5	5
Horsepower - RPM	½ -1,050	½ -1,050	½ -1,050	½ -1,075	¾ - 1,050	¾ - 1,050	¾ - 1,050	1-1,050
EVAPORATOR COIL								
Face Area (ft²)	4.5	4.5	4.5	4.5	6.2	6.2	6.2	6.2
Rows Deep/ Fin per Inch	3/ 14	3/ 14	4/ 14	4/ 14	4/ 14	4/ 14	4/ 14	4/ 14
Expansion Device	TXV	TXV	TXV	TXV	TXV	TXV	TXV	TXV
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	113	128	174	193	233	214	214	207
CONDENSER FAN / COIL								
Horsepower - RPM	¼ - 850	¼ - 850	¼ - 850	¼ - 850	¼ - 1,075	¾ - 1,075	¾ - 1,075	¾ - 1,075
FLA/LRA	1.5/ 3.0	1.5/ 3.0	1.5/ 3.0	1.5/ 3.0	1.4 / 2.9	2.5/ 5.2	1.4 / 2.9	2.5/ 5.2
Fan Diameter / # Fan Blades	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3
Face Area (ft²)	17.2	17.2	17.2	17.2	21.2	21.2	21.2	21.2
Rows Deep/ Fin per Inch	1 / 22	1 / 22	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16
COMPRESSOR								
Quantity	1	1	1	1	1	1	1	1
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Stage	Single	Single	Single	Two	Single	Two	Two	Two
ELECTRICAL DATA								
Voltage/ Phase/ Hz	208-230/1/60		208-230/1/60		208-230/1/60		208-230/1/60	
Compressor RLA/ LRA	12.8 / 58	14.1 / 73	16.7 / 79	16.7 / 96	17.9 / 112	21.2 / 96	21.2 / 96	25.6 / 118
Indoor Blower FLA	4.1	4.1	4.1	4.1	2.9	5.8	2.9	7.6
Total Unit Amps	18.4	19.7	22.3	22.3	22.2	29.4	25.5	35.6
Min. Circuit Ampacity ¹	21.6	23.2	26.5	26.5	26.7	34.8	30.8	42.1
Max. Overcurrent Protection ²	30	35	40	40	40	50	50	60
SHIPPING WEIGHT (LBS)	376	385	438	460	492	492	492	523

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 — GPH1524M41A*

		OUTDOOR AMBIENT TEMPERATURE																							
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	AIRFLOW	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	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	-	0.88	0.74	0.51	-
	ΔT	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
	kW	1.60	1.63	1.68	-	1.72	1.76	1.81	-	1.82	1.86	1.92	-	1.91	1.96	2.02	-	1.99	2.04	2.10	-	2.06	2.10	2.17	-
	Amps	7.5	7.7	7.9	-	8.0	8.2	8.4	-	8.5	8.7	8.9	-	9.0	9.2	9.4	-	9.5	9.7	9.9	-	9.9	10.1	10.4	-
70	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	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
	kW	1.55	1.59	1.63	-	1.67	1.70	1.75	-	1.77	1.80	1.86	-	1.85	1.89	1.95	-	1.93	1.97	2.03	-	1.99	2.04	2.10	-
	Amps	7.3	7.5	7.7	-	7.8	7.9	8.1	-	8.3	8.5	8.7	-	8.7	8.9	9.1	-	9.2	9.4	9.6	-	9.6	9.8	10.1	-
750	MBh	20.7	22.3	23.5	-	23.2	25.0	26.4	-	26.4	28.5	30.0	-	30.1	32.4	34.2	-	33.9	36.5	38.5	-	37.4	40.3	42.5	-
	S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
	kW	1.55	1.59	1.63	-	1.67	1.70	1.75	-	1.77	1.80	1.86	-	1.85	1.89	1.95	-	1.93	1.97	2.03	-	1.99	2.04	2.10	-
	Amps	7.3	7.5	7.7	-	7.8	7.9	8.1	-	8.3	8.5	8.7	-	8.7	8.9	9.1	-	9.2	9.4	9.6	-	9.6	9.8	10.1	-

		OUTDOOR AMBIENT TEMPERATURE																							
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	AIRFLOW	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
970	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
	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	0.67	0.43	1.00	0.90	0.68	0.44
	ΔT	20	18	15	10	20	19	15	10	20	19	15	10	20	19	15	11	20	18	15	10	19	17	14	10
	kW	1.62	1.65	1.70	1.75	1.73	1.77	1.82	1.88	1.84	1.88	1.94	2.00	1.93	1.97	2.03	2.10	2.01	2.05	2.12	2.19	2.08	2.12	2.19	2.26
	Amps	7.6	7.7	7.9	8.2	8.1	8.2	8.4	8.7	8.6	8.8	9.0	9.3	9.1	9.3	9.5	9.8	9.5	9.7	10.0	10.3	10.0	10.2	10.5	10.8
75	MBh	21.8	23.5	24.8	25.8	24.5	26.3	27.8	29.0	27.8	29.9	31.6	33.0	31.7	34.1	36.0	37.5	35.6	38.3	40.5	42.2	39.4	42.4	44.7	46.7
	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
	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	1.60	1.64	1.68	1.74	1.72	1.76	1.81	1.87	1.82	1.86	1.92	1.98	1.92	1.96	2.02	2.08	1.99	2.04	2.10	2.17	2.06	2.10	2.17	2.24
	Amps	7.5	7.7	7.9	8.1	8.0	8.2	8.4	8.6	8.5	8.7	8.9	9.2	9.0	9.2	9.4	9.7	9.5	9.7	9.9	10.2	9.9	10.1	10.4	10.7
750	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
	S/T	0.81	0.72	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.92	0.83	0.63	0.40
	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
	kW	1.57	1.60	1.65	1.70	1.68	1.71	1.77	1.82	1.78	1.82	1.87	1.93	1.87	1.91	1.97	2.03	1.94	1.99	2.05	2.12	2.01	2.05	2.12	2.19
	Amps	7.4	7.5	7.7	7.9	7.8	8.0	8.2	8.4	8.4	8.5	8.7	9.0	8.8	9.0	9.2	9.5	9.3	9.4	9.7	10.0	9.7	9.9	10.2	10.5

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)

75	1350	MBh	35.2	36.3	39.3	42.1	34.4	35.4	38.4	41.2	33.6	34.6	37.4	40.2	32.8	33.7	36.5	39.2	31.1	32.1	34.7	37.2	28.8	29.7	32.1	34.5
		S/T	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.99	0.88	0.67	0.43	1.00	0.89	0.67	0.43
		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	2.28	2.33	2.40	2.48	2.46	2.51	2.59	2.67	2.61	2.67	2.75	2.85	2.75	2.81	2.90	3.00	2.86	2.93	3.02	3.13	2.96	3.03	3.13	3.24
		Amps	10.9	11.1	11.4	11.7	11.6	11.8	12.1	12.5	12.4	12.6	13.0	13.4	13.1	13.3	13.7	14.1	13.8	14.0	14.4	14.9	14.4	14.7	15.2	15.6
		Hi PR	230	248	261	273	258	278	293	306	294	316	334	348	334	360	380	396	376	405	427	446	416	447	472	493
		Lo PR	109	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	136	144	158	168
		MBh	34.2	35.2	38.1	40.9	33.4	34.4	37.2	40.0	32.6	33.6	36.4	39.0	31.8	32.8	35.5	38.1	30.2	31.1	33.7	36.2	28.0	28.8	31.2	33.5
	S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41	
	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	2.26	2.31	2.38	2.46	2.44	2.49	2.57	2.65	2.59	2.65	2.73	2.82	2.72	2.78	2.88	2.97	2.84	2.90	3.00	3.10	2.94	3.00	3.10	3.21	
	Amps	10.8	11.0	11.3	11.6	11.5	11.7	12.0	12.4	12.3	12.5	12.9	13.3	13.0	13.2	13.6	14.0	13.7	13.9	14.3	14.8	14.3	14.6	15.0	15.5	
Hi PR	228	245	259	270	256	275	290	303	291	313	330	345	331	356	376	392	372	401	423	441	412	443	468	488		
Lo PR	107	114	125	133	114	121	132	140	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166		
1050	MBh	31.6	32.5	35.2	37.8	30.8	31.8	34.4	36.9	30.1	31.0	33.6	36.0	29.4	30.2	32.7	35.1	27.9	28.7	31.1	33.4	25.8	26.6	28.8	30.9	
	S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	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	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	2.21	2.26	2.33	2.40	2.38	2.43	2.51	2.59	2.53	2.58	2.66	2.75	2.66	2.72	2.80	2.90	2.77	2.83	2.92	3.02	2.86	2.93	3.02	3.13	
	Amps	10.6	10.8	11.1	11.4	11.2	11.5	11.8	12.1	12.0	12.2	12.6	13.0	12.7	12.9	13.3	13.7	13.3	13.6	14.0	14.4	14.0	14.3	14.7	15.2	
	Hi PR	221	238	251	262	248	267	282	294	282	303	320	334	321	346	365	381	361	389	411	428	399	430	454	473	
	Lo PR	104	111	121	129	110	117	128	136	114	122	133	142	120	128	140	149	126	134	146	146	130	139	151	161	

DB: 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 — GPH1542M41A* — LOW STAGE

IDB		AIRFLOW		OUTDOOR AMBIENT TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				65°F						75°F						85°F						95°F						105°F						115°F																																																																																																																																																																																																																																																																																																																																																																																																																																															
				ENTERING INDOOR WET BULB TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903

75	955	MBh	27.4	28.2	30.5	32.8	26.8	27.6	29.8	32.0	26.1	26.9	29.1	31.3	25.5	26.2	28.4	30.5	24.2	24.9	27.0	29.0	22.4	23.1	25.0	26.8
		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	0.79	0.59	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40
		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
		kW	1.82	1.86	1.92	1.98	1.96	2.01	2.07	2.14	2.09	2.14	2.21	2.29	2.20	2.26	2.33	2.41	2.30	2.36	2.44	2.52	2.39	2.44	2.53	2.61
		Amps	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.1	9.0	9.3	9.5	9.9	9.6	9.9	10.2	10.5	10.2	10.5	10.8	11.2	10.8	11.1	11.4	11.8
		Hi PR	220	237	250	261	247	266	281	293	281	303	320	333	320	345	364	380	360	388	409	427	398	428	452	472
		Lo PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167
	850	MBh	26.6	27.4	29.7	31.8	26.0	26.8	29.0	31.1	25.4	26.1	28.3	30.3	24.8	25.5	27.6	29.6	23.5	24.2	26.2	28.1	21.8	22.4	24.3	26.1
		S/T	0.76	0.68	0.52	0.33	0.79	0.71	0.54	0.34	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.88	0.78	0.59	0.38
		ΔT	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	16	11
kW		1.80	1.84	1.90	1.96	1.95	1.99	2.06	2.13	2.07	2.12	2.19	2.27	2.19	2.24	2.31	2.39	2.28	2.33	2.42	2.50	2.36	2.42	2.50	2.59	
Amps		7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	9.8	10.1	10.4	10.1	10.4	10.7	11.1	10.7	11.0	11.3	11.7	
Hi PR		218	235	248	259	245	263	278	290	278	300	316	330	317	341	360	376	357	384	405	423	394	424	448	467	
Lo PR		107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	
745	MBh	24.6	25.3	27.4	29.4	24.0	24.7	26.7	28.7	23.4	24.1	26.1	28.0	22.8	23.5	25.5	27.3	21.7	22.3	24.2	26.0	20.1	20.7	22.4	24.0	
	S/T	0.74	0.66	0.50	0.32	0.76	0.68	0.52	0.33	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.84	0.76	0.57	0.37	
	ΔT	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11	
	kW	1.76	1.79	1.85	1.91	1.90	1.94	2.00	2.07	2.02	2.07	2.14	2.21	2.13	2.18	2.25	2.33	2.22	2.27	2.35	2.43	2.30	2.36	2.44	2.52	
	Amps	7.5	7.7	7.9	8.2	8.1	8.3	8.5	8.8	8.7	8.9	9.2	9.5	9.3	9.5	9.8	10.2	9.9	10.1	10.4	10.8	10.4	10.7	11.0	11.4	
	Hi PR	212	228	240	251	237	256	270	281	270	291	307	320	308	331	350	365	346	372	393	410	382	411	434	453	
	Lo PR	104	111	121	129	110	117	128	136	114	121	133	141	120	128	139	148	126	134	146	155	130	138	151	161	

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

Shaded area reflects ACCA (TVA) conditions

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

EXPANDED COOLING DATA — GPH1543M41A*

		OUTDOOR AMBIENT TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		65°F						75°F						85°F						95°F						105°F						115°F																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		ENTERING INDOOR WET BULB TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903	1907	1911	1915	1919

75	1400	MBh	39.9	41.1	44.5	47.7	39.0	40.1	43.4	46.6	38.0	39.2	42.4	45.5	37.1	38.2	41.3	44.4	35.2	36.3	39.3	42.2	32.7	33.6	36.4	39.1
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	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	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10
		kW	2.53	2.59	2.67	2.76	2.73	2.79	2.88	2.97	2.90	2.97	3.06	3.16	3.05	3.12	3.22	3.33	3.18	3.25	3.36	3.48	3.30	3.37	3.48	3.60
		Amps	12.0	12.3	12.6	13.0	12.9	13.1	13.5	13.9	13.8	14.1	14.5	15.0	14.6	15.0	15.4	15.9	15.5	15.8	16.3	16.8	16.3	16.6	17.1	17.7
		Hi PR	230	248	262	273	258	278	294	306	294	316	334	348	335	360	380	397	377	405	428	446	416	448	473	493
		LO PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167
		MBh	38.7	39.9	43.2	46.3	37.8	38.9	42.2	45.2	36.9	38.0	41.1	44.2	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	0.76	0.68	0.52	0.33	0.79	0.71	0.53	0.34	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.87	0.78	0.59	0.38
		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
75	1250	kW	2.51	2.57	2.65	2.73	2.71	2.77	2.86	2.95	2.88	2.94	3.04	3.14	3.03	3.10	3.20	3.31	3.16	3.23	3.33	3.45	3.27	3.34	3.45	3.57
		Amps	11.9	12.2	12.5	12.9	12.8	13.0	13.4	13.8	13.7	14.0	14.4	14.9	14.5	14.8	15.3	15.8	15.3	15.7	16.1	16.7	16.1	16.5	17.0	17.6
		Hi PR	228	245	259	270	256	275	291	303	291	313	331	345	331	357	377	393	373	401	424	442	412	443	468	488
		LO PR	107	114	124	132	113	120	131	140	118	125	137	145	123	131	143	153	129	138	150	160	134	142	155	166
		MBh	38.3	39.5	42.7	45.9	37.4	38.6	41.7	44.8	36.6	37.6	40.7	43.7	35.7	36.7	39.7	42.7	33.9	34.9	37.8	40.5	31.4	32.3	35.0	37.5
		S/T	0.75	0.67	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.77	0.59	0.38
		ΔT	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11
		kW	2.49	2.54	2.62	2.71	2.68	2.74	2.82	2.92	2.85	2.91	3.00	3.10	3.00	3.06	3.16	3.27	3.12	3.19	3.30	3.41	3.23	3.30	3.41	3.53
		Amps	11.8	12.1	12.4	12.8	12.6	12.9	13.3	13.7	13.6	13.8	14.2	14.7	14.4	14.7	15.1	15.6	15.2	15.5	16.0	16.5	16.0	16.3	16.8	17.4
		Hi PR	225	242	256	267	253	272	287	299	287	309	326	340	327	352	372	388	368	396	418	436	407	438	462	482
LO PR	106	112	123	131	112	119	130	138	116	123	135	144	122	130	142	151	128	136	148	158	132	141	153	163		

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

Shaded area reflects ACCA (TVA) conditions

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

EXPANDED COOLING DATA — GPH1549M41A* — HIGH STAGE

IDB		AIRFLOW		OUTDOOR AMBIENT TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				65°F						75°F						85°F						95°F						105°F						115°F																																																																																																																																																																																																																																																																																																																																																																																																																																															
				ENTERING INDOOR WET BULB TEMPERATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903

75	1517	MBh	45.6	46.9	50.8	54.5	44.5	45.8	49.6	53.2	43.5	44.7	48.4	52.0	42.4	43.6	47.2	50.7	40.3	41.5	44.9	48.2	37.3	38.4	41.6	44.6
		S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.89	0.80	0.60	0.39
		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	3.08	3.14	3.24	3.35	3.32	3.39	3.50	3.61	3.53	3.61	3.72	3.85	3.71	3.80	3.92	4.06	3.87	3.96	4.09	4.23	4.01	4.10	4.24	4.38
		Amps	13.4	13.7	14.0	14.5	14.3	14.6	15.0	15.5	15.4	15.7	16.2	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	229	246	260	271	257	277	292	305	292	315	332	346	333	358	378	395	374	403	426	444	414	445	470	490
		Lo PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167
	MBh	44.2	45.6	49.3	52.9	43.2	44.5	48.2	51.7	42.2	43.4	47.0	50.5	41.2	42.4	45.9	49.2	39.1	40.3	43.6	46.8	36.2	37.3	40.4	43.3	
	S/T	0.74	0.66	0.50	0.32	0.77	0.68	0.52	0.33	0.79	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.85	0.76	0.57	0.37	
	ΔT	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11	
1345	kW	3.05	3.12	3.22	3.32	3.29	3.36	3.47	3.58	3.50	3.58	3.69	3.82	3.68	3.77	3.89	4.02	3.84	3.93	4.06	4.20	3.98	4.07	4.20	4.35	
	Amps	13.3	13.5	13.9	14.4	14.2	14.5	14.9	15.4	15.2	15.6	16.0	16.6	16.2	16.5	17.0	17.6	17.1	17.5	18.0	18.6	18.0	18.4	18.9	19.6	
	Hi PR	227	244	258	269	254	274	289	302	289	311	329	343	330	355	375	391	371	399	421	439	410	441	466	486	
	Lo PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	
	MBh	40.8	42.0	45.5	48.8	39.9	41.1	44.5	47.7	38.9	40.1	43.4	46.6	38.0	39.1	42.3	45.4	36.1	37.2	40.2	43.2	33.4	34.4	37.3	40.0	
	S/T	0.71	0.64	0.48	0.31	0.74	0.66	0.50	0.32	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.82	0.73	0.55	0.36	
	ΔT	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	20	16	11	
1183	kW	2.98	3.04	3.14	3.24	3.21	3.28	3.38	3.50	3.41	3.49	3.60	3.72	3.59	3.67	3.79	3.92	3.74	3.83	3.95	4.09	3.88	3.96	4.10	4.23	
	Amps	13.0	13.2	13.6	14.0	13.9	14.1	14.5	15.0	14.9	15.2	15.6	16.2	15.8	16.1	16.6	17.1	16.7	17.0	17.5	18.1	17.5	17.9	18.5	19.1	
	Hi PR	220	237	250	261	247	266	280	293	281	302	319	333	320	344	363	379	360	387	409	426	397	428	452	471	
	Lo PR	104	111	121	129	110	117	128	136	114	121	133	141	120	128	139	148	126	134	146	155	130	138	151	161	

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

Shaded area reflects ACCA (TVA) conditions

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

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
GPH15 24M41A*	T1 (G)	230	CFM	882	808	727	649	545	---	---	---
			Watts	82	86	92	102	108	---	---	---
	T2 / T3 (W2)	230	CFM	933	873	810	733	637	584	---	---
			Watts	93	103	109	120	126	135	---	---
	T4 / T5 (Y)	230	CFM	1058	1012	945	896	816	723	672	---
			Watts	124	136	142	153	168	172	179	---
GPH15 30M41A*	T1 (G)	230	CFM	893	824	752	665	575	---	---	---
			Watts	87	95	101	111	115	---	---	---
	T2 / T3 (W2)	230	CFM	1132	1070	1011	959	889	827	733	669
			Watts	153	162	168	179	184	195	206	208
	T4 / T5 (Y)	230	CFM	1287	1236	1165	1123	1066	1012	958	857
			Watts	211	217	228	239	244	255	265	272
GPH15 36M41A*	T1 (G)	230	CFM	852	764	711	592	545	-	-	-
			Watts	80	82	86	95	99	-	-	-
	T2 / T3 (W2)	230	CFM	1232	1190	1131	1082	1023	966	889	819
			Watts	202	214	221	229	235	246	258	264
	T4 / T5 (Y)	230	CFM	1267	1213	1162	1120	1058	1009	932	841
			Watts	218	226	236	245	247	260	272	275
GPH15 42M41A*	T1 (G)	230	CFM	893	830	741	619	557	---	---	---
			Watts	89	99	104	117	131	---	---	---
	T2 / T3 (W2)	230	CFM	1393	1339	1297	1230	1180	1116	1056	901
			Watts	271	280	292	300	310	320	324	329
	T4 / T5 (Y)	230	CFM	1511	1464	1422	1355	1313	1184	1064	983
			Watts	345	354	364	381	390	392	375	360

G = Fan only

W2 = Heat mode

Y = Cooling mode

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, approx. 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.

AIRFLOW DATA (CONT.)

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
GPH15 43M41A*	T1 (G)	230	CFM	1199	1138	1085	1017	957	889	820	755
			Watts	162	173	185	193	211	219	232	245
	T2 / T3 (W2)	230	CFM	1359	1322	1262	1214	1165	1119	1080	1039
			Watts	200	214	218	233	243	254	267	283
	T4 / T5 (HS)	230	CFM	1598	1559	1525	1483	1441	1398	1353	1314
			Watts	332	343	360	365	384	385	404	414
GPH15 48M41A	T1 (G)	230	CFM	1199	1138	1085	1017	957	889	820	755
			Watts	162	173	185	193	211	219	232	245
	T2 / T3 (W2)	230	CFM	1799	1745	1698	1658	1610	1560	1522	1450
			Watts	480	493	508	521	531	545	550	547
	T4 / T5 (Y)	230	CFM	1921	1865	1818	1780	1719	1667	1579	1483
			Watts	582	585	602	625	627	621	595	569
GPH15 49M41A*	T1 (G)	230	CFM	1199	1138	1085	1017	957	889	820	755
			Watts	162	173	185	193	211	219	232	245
	T2 (Y)	230	CFM	1418	1383	1349	1312	1275	1228	1178	1141
			Watts	242	258	273	282	299	308	320	338
	T3 (W2)	230	CFM	1799	1745	1698	1658	1610	1560	1522	1450
			Watts	480	493	508	521	531	545	550	547
	T4 (YHS)	230	CFM	1799	1745	1698	1658	1610	1560	1522	1450
			Watts	480	493	508	521	531	545	550	547
	T5 (W2HS)	230	CFM	1921	1865	1818	1780	1719	1667	1579	1483
			Watts	582	585	602	625	627	621	595	569
GPH15 60M41A	T1 (G)	230	CFM	1390	1325	1282	1223	1180	1134	1066	1011
			Watts	231	240	253	262	277	292	300	316
	T2 / T3 (W2)	230	CFM	1900	1843	1801	1762	1723	1672	1577	1482
			Watts	543	559	569	583	600	603	577	554
	T4 / T5 Y	230	CFM	2094	2039	1981	1907	1819	1731	1628	1497
			Watts	724	727	720	701	671	653	611	569

G = Fan only

W2 = Heat mode

Y = Cooling mode

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, approx. 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

GPH1524M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	29.4	27.8	26.2	24.5	23.4	22.7	21.1	19.4	15.6	14.4	13.2	12.5	12.0	10.8	9.6	8.4	7.1	5.8
ΔT	31.7	30.0	28.2	26.4	25.2	24.4	22.7	20.9	16.8	15.5	14.3	13.5	13.0	11.6	10.3	9.0	7.7	6.3
kW	2.08	2.04	2.00	1.96	1.94	1.92	1.88	1.84	1.81	1.77	1.73	1.71	1.69	1.65	1.61	1.57	1.53	1.49
Amps	10.8	10.2	9.6	9.2	8.9	8.8	8.4	8.0	7.8	7.5	7.2	7.1	7.0	6.8	6.4	6.2	5.8	5.4
COP	4.14	4.00	3.84	3.66	3.54	3.46	3.28	3.09	2.52	2.38	2.24	2.15	2.09	1.92	1.74	1.56	1.36	1.15
EER	14.2	13.7	13.1	12.5	12.1	11.8	11.2	10.6	8.6	8.1	7.7	7.3	7.1	6.6	6.0	5.3	4.7	3.9
HI PR	388	372	358	342	334	328	315	302	290	277	266	259	255	245	235	226	218	210
LO PR	145	134	126	115	109	105	96	86	77	69	61	57	55	46	40	34	29	23

GPH1530M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	34.4	32.6	30.7	28.7	27.4	26.6	24.7	22.7	18.8	17.4	16.0	15.1	14.5	13.0	11.6	10.1	8.6	7.1
ΔT	31.9	30.2	28.4	26.6	25.4	24.6	22.8	21.1	17.4	16.1	14.8	14.0	13.5	12.1	10.7	9.3	8.0	6.5
kW	2.31	2.27	2.22	2.18	2.15	2.13	2.09	2.04	2.08	2.03	1.98	1.95	1.93	1.89	1.84	1.79	1.74	1.69
Amps	11.4	10.7	10.0	9.5	9.2	9.0	8.5	8.2	7.8	7.5	7.2	7.1	7.0	6.7	6.3	6.0	5.6	5.1
COP	4.36	4.21	4.04	3.86	3.73	3.65	3.46	3.26	2.65	2.51	2.36	2.26	2.20	2.03	1.84	1.65	1.45	1.22
EER	14.9	14.4	13.8	13.2	12.8	12.5	11.8	11.2	9.1	8.6	8.1	7.7	7.5	6.9	6.3	5.6	4.9	4.2
HI PR	383	368	353	338	330	324	311	299	286	273	262	256	251	242	233	223	215	208
LO PR	138	128	120	110	104	100	92	82	74	66	58	54	52	44	38	32	28	22

GPH1536M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	44.6	42.2	39.8	37.2	35.5	34.4	32.0	29.5	23.2	21.4	19.7	18.6	17.9	16.1	14.3	12.4	10.6	8.7
ΔT	34.4	32.6	30.7	28.7	27.4	26.5	24.7	22.7	17.9	16.5	15.2	14.4	13.8	12.4	11.0	9.6	8.2	6.7
kW	3.24	3.18	3.11	3.05	3.01	2.98	2.92	2.85	2.43	2.37	2.32	2.29	2.26	2.21	2.15	2.10	2.04	1.99
Amps	17.4	16.2	15.3	14.5	14.1	13.9	13.2	12.6	12.2	11.7	11.3	11.1	10.9	10.5	9.9	9.5	8.9	8.3
COP	4.03	3.89	3.74	3.57	3.45	3.38	3.21	3.02	2.80	2.64	2.49	2.38	2.32	2.13	1.94	1.73	1.52	1.28
EER	13.8	13.3	12.8	12.2	11.8	11.5	11.0	10.3	9.6	9.0	8.5	8.1	7.9	7.3	6.6	5.9	5.2	4.4
HI PR	454	435	418	400	390	383	368	353	338	323	310	303	297	286	275	264	254	245
LO PR	137	127	119	109	103	99	91	81	73	65	57	53	52	44	38	32	28	22

GPH1542M41A*

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.3	31.5	29.7	27.7	26.5	25.7	23.9	22.0	16.2	15.0	13.8	13.0	12.5	11.2	10.0	8.7	7.4	6.1
ΔT	36.3	34.4	32.3	30.2	28.9	28.0	26.0	24.0	17.6	16.3	15.0	14.2	13.6	12.2	10.8	9.5	8.1	6.6
kW	2.48	2.43	2.38	2.33	2.30	2.28	2.23	2.18	2.19	2.13	2.08	2.05	2.03	1.97	1.92	1.87	1.82	1.76
Amps	12.5	11.6	10.9	10.3	9.9	9.7	9.2	8.8	8.4	8.1	7.7	7.5	7.4	7.1	6.6	6.3	5.8	5.3
COP	3.92	3.79	3.65	3.49	3.37	3.30	3.13	2.96	2.17	2.05	1.94	1.86	1.81	1.67	1.52	1.36	1.19	1.01
EER	13.4	13.0	12.5	11.9	11.5	11.3	10.7	10.1	7.4	7.0	6.6	6.3	6.2	5.7	5.2	4.6	4.1	3.4
HI PR	395	379	364	348	340	334	321	308	295	282	270	264	259	249	240	230	222	214
LO PR	143	133	125	114	108	104	96	85	77	69	60	56	54	46	39	33	29	23

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.

Low pressure is measured at the compressor suction access fitting.

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

kW = Total system power

EXPANDED HEATING DATA (CONT.)

GPH1542M41A*

HIGH STAGE

	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	24.9	23.0	21.2	20.0	19.3	17.3	15.3	13.4	11.4	9.3
ΔT	37.2	35.3	33.2	31.0	29.6	28.7	26.7	24.6	18.5	17.0	15.7	14.8	14.3	12.8	11.3	9.9	8.4	6.9
kW	3.42	3.35	3.28	3.21	3.17	3.14	3.07	3.00	2.89	2.82	2.75	2.71	2.68	2.61	2.55	2.48	2.41	2.35
Amps	16.8	15.6	14.7	13.9	13.4	13.2	12.5	11.9	11.4	10.9	10.5	10.2	10.1	9.7	9.1	8.6	8.0	7.3
COP	4.31	4.16	4.00	3.82	3.70	3.61	3.43	3.24	2.53	2.39	2.25	2.16	2.10	1.93	1.76	1.58	1.38	1.16
EER	14.7	14.2	13.7	13.1	12.6	12.3	11.7	11.1	8.6	8.2	7.7	7.4	7.2	6.6	6.0	5.4	4.7	4.0
HI PR	402	385	371	354	346	339	326	313	300	286	275	268	264	254	244	234	226	218
LO PR	135	126	118	108	102	98	90	80	73	65	57	53	51	43	37	31	27	22

GPH1543M41A*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	50.2	47.5	44.7	41.8	39.9	38.7	35.9	33.1	23.2	21.4	19.7	18.6	17.9	16.1	14.3	12.4	10.6	8.7
ΔT	38.7	36.6	34.5	32.2	30.8	29.8	27.7	25.6	17.9	16.5	15.2	14.4	13.8	12.4	11.0	9.6	8.2	6.7
kW	3.45	3.38	3.31	3.24	3.20	3.17	3.10	3.03	2.43	2.37	2.32	2.29	2.26	2.21	2.15	2.10	2.04	1.99
Amps	18.5	17.3	16.3	15.5	15.0	14.8	14.0	13.4	12.9	12.5	12.0	11.7	11.6	11.1	10.5	10.0	9.4	8.7
COP	4.25	4.11	3.95	3.77	3.65	3.57	3.39	3.20	2.80	2.64	2.49	2.38	2.32	2.13	1.94	1.73	1.52	1.28
EER	14.5	14.0	13.5	12.9	12.5	12.2	11.6	10.9	9.6	9.0	8.5	8.1	7.9	7.3	6.6	5.9	5.2	4.4
HI PR	413	395	380	364	355	348	335	321	308	294	282	275	271	260	250	240	231	223
LO PR	143	133	125	114	108	104	96	85	77	69	60	56	54	46	39	33	29	23

GPH1548M41A*

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	40.0	37.8	35.6	33.3	31.8	30.8	28.6	26.4	21.8	20.1	18.5	17.5	16.9	15.1	13.4	11.7	10.0	8.2
ΔT	30.8	29.2	27.5	25.7	24.5	23.8	22.1	20.4	16.8	15.5	14.3	13.5	13.0	11.7	10.3	9.0	7.7	6.3
kW	3.04	2.98	2.92	2.86	2.83	2.80	2.74	2.69	2.81	2.74	2.68	2.64	2.62	2.55	2.49	2.43	2.36	2.30
Amps	11.5	10.8	10.2	9.7	9.4	9.3	8.8	8.5	8.2	7.9	7.6	7.5	7.4	7.1	6.8	6.5	6.1	5.7
COP	3.85	3.72	3.57	3.41	3.29	3.22	3.05	2.88	2.27	2.15	2.02	1.94	1.88	1.73	1.58	1.41	1.24	1.04
EER	13.1	12.7	12.2	11.6	11.2	11.0	10.4	9.8	7.8	7.3	6.9	6.6	6.4	5.9	5.4	4.8	4.2	3.6
HI PR	395	379	364	348	340	334	321	308	295	282	270	264	259	249	240	230	222	214
LO PR	139	129	121	111	105	101	93	83	75	67	59	54	52	44	38	32	28	22

GPH1548M41A*

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	57.4	54.3	51.1	47.8	45.7	44.2	41.1	37.9	30.7	28.3	26.1	24.6	23.7	21.3	18.8	16.4	14.0	11.5
ΔT	31.3	29.6	27.8	26.0	24.9	24.1	22.4	20.6	16.7	15.4	14.2	13.4	12.9	11.6	10.3	9.0	7.6	6.3
kW	4.20	4.12	4.04	3.96	3.92	3.88	3.81	3.73	3.66	3.58	3.50	3.45	3.42	3.34	3.26	3.19	3.11	3.03
Amps	20.6	19.2	18.2	17.2	16.7	16.4	15.6	15.0	14.4	13.9	13.3	13.1	12.9	12.4	11.7	11.2	10.5	9.7
COP	4.00	3.86	3.70	3.53	3.41	3.34	3.16	2.98	2.45	2.32	2.18	2.09	2.03	1.86	1.69	1.51	1.32	1.11
EER	13.7	13.2	12.7	12.1	11.7	11.4	10.8	10.2	8.4	7.9	7.4	7.1	6.9	6.4	5.8	5.2	4.5	3.8
HI PR	411	394	379	363	354	347	334	320	307	293	282	275	270	260	250	239	231	223
LO PR	131	122	114	105	99	95	88	78	70	63	55	51	50	42	36	30	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.)

GPH1549M41A*

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	40.0	37.8	35.6	33.3	31.8	30.8	28.6	26.4	21.8	20.1	18.5	17.5	16.9	15.1	13.4	11.7	10.0	8.2
ΔT	30.8	29.2	27.5	25.7	24.5	23.8	22.1	20.4	16.8	15.5	14.3	13.5	13.0	11.7	10.3	9.0	7.7	6.3
kW	3.04	2.98	2.92	2.86	2.83	2.80	2.74	2.69	2.81	2.74	2.68	2.64	2.62	2.55	2.49	2.43	2.36	2.30
Amps	11.5	10.8	10.2	9.7	9.4	9.3	8.8	8.5	8.2	7.9	7.6	7.5	7.4	7.1	6.8	6.5	6.1	5.7
COP	3.85	3.72	3.57	3.41	3.29	3.22	3.05	2.88	2.27	2.15	2.02	1.94	1.88	1.73	1.58	1.41	1.24	1.04
EER	13.1	12.7	12.2	11.6	11.2	11.0	10.4	9.8	7.8	7.3	6.9	6.6	6.4	5.9	5.4	4.8	4.2	3.6
HI PR	395	379	364	348	340	334	321	308	295	282	270	264	259	249	240	230	222	214
LO PR	139	129	121	111	105	101	93	83	75	67	59	54	52	44	38	32	28	22

GPH1549M41A*

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	57.9	54.8	51.6	48.2	46.0	44.6	41.4	38.2	31.9	29.4	27.1	25.6	24.6	22.1	19.6	17.1	14.6	11.9
ΔT	39.8	37.7	35.5	33.2	31.7	30.7	28.5	26.3	21.9	20.2	18.6	17.6	17.0	15.2	13.5	11.8	10.0	8.2
kW	3.99	3.91	3.83	3.75	3.70	3.66	3.59	3.51	3.53	3.44	3.36	3.31	3.28	3.20	3.12	3.03	2.95	2.87
Amps	20.2	18.8	17.7	16.8	16.3	16.0	15.2	14.5	14.0	13.4	12.9	12.6	12.5	11.9	11.2	10.7	10.0	9.2
COP	4.25	4.11	3.95	3.77	3.64	3.56	3.38	3.19	2.64	2.50	2.36	2.26	2.20	2.02	1.84	1.65	1.45	1.22
EER	14.5	14.0	13.5	12.9	12.4	12.2	11.6	10.9	9.0	8.5	8.1	7.7	7.5	6.9	6.3	5.6	4.9	4.2
HI PR	395	379	364	348	340	334	321	308	295	282	270	264	259	249	240	230	222	214
LO PR	143	133	125	114	108	104	96	85	77	69	60	56	54	46	39	33	29	23

GPH1560M41A*

LOW STAGE

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	50.1	47.4	44.6	41.7	39.8	38.6	35.8	33.1	26.6	24.5	22.6	21.3	20.5	18.4	16.3	14.2	12.2	10.0
ΔT	34.3	32.5	30.6	28.6	27.3	26.5	24.6	22.7	18.2	16.8	15.5	14.6	14.1	12.6	11.2	9.8	8.3	6.8
kW	3.76	3.68	3.61	3.53	3.49	3.46	3.39	3.31	3.44	3.36	3.28	3.24	3.21	3.13	3.05	2.97	2.89	2.81
Amps	19.6	18.2	17.2	16.2	15.7	15.4	14.6	14.0	13.4	12.9	12.4	12.1	12.0	11.4	10.8	10.2	9.6	8.8
COP	3.90	3.76	3.62	3.45	3.34	3.26	3.09	2.92	2.26	2.13	2.01	1.93	1.87	1.72	1.57	1.40	1.23	1.04
EER	13.3	12.9	12.4	11.8	11.4	11.2	10.6	10.0	7.7	7.3	6.9	6.6	6.4	5.9	5.4	4.8	4.2	3.5
HI PR	391	375	361	345	337	330	318	305	292	279	268	261	257	247	237	228	220	212
LO PR	139	129	121	111	105	101	93	83	75	67	59	54	53	44	38	32	28	22

GPH1560M41A*

HIGH STAGE

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	70.4	66.6	62.7	58.6	56.0	54.3	50.4	46.5	38.9	35.9	33.0	31.2	30.0	27.0	23.9	20.8	17.8	14.6
ΔT	36.2	34.3	32.3	30.2	28.8	27.9	25.9	23.9	20.0	18.5	17.0	16.0	15.5	13.9	12.3	10.7	9.1	7.5
kW	5.24	5.14	5.04	4.94	4.88	4.83	4.74	4.63	4.52	4.42	4.32	4.26	4.22	4.12	4.02	3.92	3.82	3.72
Amps	26.6	24.8	23.4	22.1	21.4	21.0	20.0	19.1	18.4	17.7	16.9	16.6	16.4	15.7	14.8	14.1	13.2	12.1
COP	3.93	3.79	3.64	3.48	3.36	3.29	3.11	2.94	2.52	2.38	2.24	2.14	2.08	1.92	1.74	1.56	1.36	1.15
EER	13.4	13.0	12.5	11.9	11.5	11.2	10.6	10.0	8.6	8.1	7.7	7.3	7.1	6.5	5.9	5.3	4.7	3.9
HI PR	411	394	379	362	354	347	333	320	306	293	281	274	269	259	249	239	230	222
LO PR	130	121	113	104	98	94	87	77	70	62	55	51	49	42	36	30	26	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

AUXILIARY HEATING DATA

GPH1524M41A*

CONDITIONS: 860 CFM; INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	29.41	4.14	45.80	56.72	62.18	---	---
60	27.85	4.00	44.23	55.15	60.61	---	---
55	26.21	3.84	42.59	53.51	58.97	---	---
50	24.50	3.66	40.88	51.80	57.26	---	---
45	22.67	3.46	39.06	49.98	55.44	---	---
40	21.06	3.28	37.44	48.36	53.82	---	---
35	19.42	3.09	35.80	46.73	52.19	---	---
30	15.59	2.52	31.97	42.89	48.35	---	---
25	14.39	2.38	30.77	41.69	47.15	---	---
20	13.25	2.24	29.63	40.55	46.01	---	---
15	12.05	2.09	28.43	39.35	44.81	---	---
10	10.81	1.92	27.19	38.11	43.57	---	---
5	9.58	1.74	25.97	36.89	42.35	---	---
0	8.36	1.56	24.74	35.66	41.12	---	---
-5	7.13	1.36	23.51	34.43	39.90	---	---
-10	5.84	1.15	22.22	33.15	38.61	---	---

GPH1536M41A*

CONDITIONS: 1200 CFM; INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	44.59	4.02	60.97	71.89	77.35	93.73	---
60	42.21	3.89	58.59	69.51	74.97	91.36	---
55	39.73	3.74	56.11	67.03	72.49	88.87	---
50	37.14	3.57	53.52	64.44	69.90	86.28	---
45	34.37	3.38	50.75	61.67	67.14	83.52	---
40	31.92	3.20	48.31	59.23	64.69	81.07	---
35	29.44	3.02	45.82	56.74	62.20	78.59	---
30	23.20	2.80	39.58	50.50	55.97	72.35	---
25	21.41	2.64	37.80	48.72	54.18	70.56	---
20	19.72	2.49	36.10	47.02	52.48	68.87	---
15	17.93	2.32	34.31	45.24	50.70	67.08	---
10	16.09	2.13	32.47	43.39	48.85	65.23	---
5	14.26	1.94	30.65	41.57	47.03	63.41	---
0	12.44	1.73	28.82	39.74	45.20	61.59	---
-5	10.61	1.52	27.00	37.92	43.38	59.76	---
-10	8.70	1.28	25.08	36.00	41.46	57.84	---

NOTES

- COP: Coefficient of performance
- To obtain BTU capacity of the unit with Kw of auxiliary heat, multiply by 1000 (example 39.01 x 1000 = 39,010 BTU'S)

GPH1530M41A*

CONDITIONS: 1000 CFM; INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	34.44	4.36	51.51	61.75	68.57	85.64	---
60	32.61	4.21	49.67	59.91	66.74	83.80	---
55	30.69	4.04	47.75	57.99	64.82	81.88	---
50	28.69	3.86	45.75	55.99	62.82	79.88	---
45	26.55	3.65	43.62	53.85	60.68	77.75	---
40	24.66	3.36	41.73	51.96	58.79	75.86	---
35	22.74	3.26	39.81	50.05	56.87	73.94	---
30	18.81	2.70	35.88	46.12	52.94	70.01	---
25	17.37	2.55	34.43	44.67	51.50	68.56	---
20	15.99	2.40	33.06	43.29	50.12	67.19	---
15	9.89	2.24	26.95	37.19	44.02	61.08	---
10	8.87	2.06	25.94	36.18	43.00	60.07	---
5	7.87	1.87	24.93	35.17	42.00	59.06	---
0	6.86	1.67	23.93	34.16	40.99	58.06	---
-5	5.85	1.47	22.92	33.16	39.98	57.05	---
-10	7.05	1.23	24.12	34.36	41.18	58.25	---

GPH1542M41A*

CONDITIONS: 1250 CFM INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	50.28	4.31	67.35	77.58	84.41	101.48	---
60	47.60	4.16	64.67	74.90	81.73	98.80	---
55	44.80	4.00	61.87	72.10	78.93	96.00	---
50	41.88	3.82	58.95	69.18	76.01	93.08	---
45	38.76	3.61	55.83	66.06	72.89	89.96	---
40	36.00	3.43	53.07	63.30	70.13	87.20	---
35	33.20	3.24	50.27	60.50	67.33	84.40	---
30	24.92	2.53	41.99	52.22	59.05	76.12	---
25	23.00	2.39	40.07	50.30	57.13	74.20	---
20	21.18	2.25	38.25	48.48	55.31	72.38	---
15	19.26	2.10	36.33	46.56	53.39	70.46	---
10	17.28	1.93	34.35	44.58	51.41	68.48	---
5	15.32	1.76	32.39	42.62	49.45	66.52	---
0	13.36	1.58	30.43	40.66	47.49	64.56	---
-5	11.40	1.38	28.47	38.70	45.53	62.60	---
-10	9.34	1.16	26.41	36.64	43.47	60.54	---

AUXILIARY HEATING DATA (CONT.)

GPH1543M41A*

CONDITIONS: 1350 CFM; INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	50.28	4.31	67.35	77.58	84.41	101.48	---
60	47.60	4.16	64.67	74.90	81.73	98.80	---
55	44.80	4.00	61.87	72.10	78.93	96.00	---
50	41.88	3.82	58.95	69.18	76.01	93.08	---
45	38.76	3.61	55.83	66.06	72.89	89.96	---
40	36.00	3.43	53.07	63.30	70.13	87.20	---
35	33.20	3.24	50.27	60.50	67.33	84.40	---
30	24.92	2.53	41.99	52.22	59.05	76.12	---
25	23.00	2.39	40.07	50.30	57.13	74.20	---
20	21.18	2.25	38.25	48.48	55.31	72.38	---
15	19.26	2.10	36.33	46.56	53.39	70.46	---
10	17.28	1.93	34.35	44.58	51.41	68.48	---
5	15.32	1.76	32.39	42.62	49.45	66.52	---
-5	11.40	1.38	28.47	38.70	45.53	62.60	---
-10	9.34	1.16	26.41	36.64	43.47	60.54	---

GPH1549M41A*

CONDITIONS: 1700 CFM INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	57.38	4.00	73.76	84.69	90.15	106.53	122.91
60	54.32	3.86	70.71	81.63	87.09	103.47	119.85
55	51.13	3.70	67.51	78.43	83.89	100.28	116.66
50	47.80	3.53	64.18	75.10	80.56	96.94	113.33
45	44.23	3.34	60.62	71.54	77.00	93.38	109.76
40	41.09	3.16	57.47	68.39	73.85	90.23	106.61
35	37.89	2.98	54.27	65.19	70.65	87.04	103.42
30	30.65	2.45	47.03	57.96	63.42	79.80	96.18
25	28.29	2.32	44.67	55.59	61.05	77.44	93.82
20	26.05	2.18	42.43	53.36	58.82	75.20	91.58
15	23.69	2.03	40.07	50.99	56.45	72.84	89.22
10	21.25	1.86	37.64	48.56	54.02	70.40	86.78
5	18.84	1.69	35.23	46.15	51.61	67.99	84.37
0	16.43	1.51	32.82	43.74	49.20	65.58	81.96
-5	14.02	1.32	30.40	41.33	46.79	63.17	79.55
-10	11.49	1.11	27.87	38.79	44.25	60.64	77.02

NOTES

- COP: Coefficient of performance
- To obtain BTU capacity of the unit with Kw of auxiliary heat, multiply by 1000 (example 39.01 x 1000 = 39,010 BTU'S)

GPH1548M41A*

CONDITIONS: 1700 CFM INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	57.38	4.00	73.76	84.69	90.15	106.53	122.91
60	54.32	3.86	70.71	81.63	87.09	103.47	119.85
55	51.13	3.70	67.51	78.43	83.89	100.28	116.66
50	47.80	3.53	64.18	75.10	80.56	96.94	113.33
45	44.23	3.34	60.62	71.54	77.00	93.38	109.76
40	41.09	3.16	57.47	68.39	73.85	90.23	106.61
35	37.89	2.98	54.27	65.19	70.65	87.04	103.42
30	30.65	2.45	47.03	57.96	63.42	79.80	96.18
25	28.29	2.32	44.67	55.59	61.05	77.44	93.82
20	26.05	2.18	42.43	53.36	58.82	75.20	91.58
15	23.69	2.03	40.07	50.99	56.45	72.84	89.22
10	21.25	1.86	37.64	48.56	54.02	70.40	86.78
5	18.84	1.69	35.23	46.15	51.61	67.99	84.37
-5	14.02	1.32	30.40	41.33	46.79	63.17	79.55
-10	11.49	1.11	27.87	38.79	44.25	60.64	77.02

GPH1560M41A*

CONDITIONS: 1800 CFM; INDOOR AIR @ 70°F DB

OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUX. HEAT		CAPACITY OF UNIT W/ KW OF AUX. HEAT				
	CAPACITY BTU/H	COP	5K	8K	10K	15K	20K
65	70.39	3.93	86.77	97.70	103.16	119.54	135.92
60	66.64	3.79	83.02	93.94	99.40	115.79	132.17
55	62.72	3.64	79.10	90.02	95.48	111.87	128.25
50	58.63	3.48	75.01	85.94	91.40	107.78	124.16
45	54.26	3.29	70.65	81.57	87.03	103.41	119.79
40	50.40	3.11	66.78	77.70	83.16	99.55	115.93
35	46.48	2.94	62.86	73.78	79.24	95.63	112.01
30	38.88	2.52	55.26	66.18	71.64	88.02	104.40
25	35.88	2.38	52.26	63.18	68.64	85.03	101.41
20	33.04	2.24	49.42	60.34	65.81	82.19	98.57
15	30.05	2.08	46.43	57.35	62.81	79.19	95.58
10	26.96	1.92	43.34	54.26	59.72	76.10	92.49
5	23.90	1.74	40.28	51.20	56.66	73.05	89.43
0	20.84	1.56	37.22	48.15	53.61	69.99	86.37
-5	17.78	1.36	34.17	45.09	50.55	66.93	83.31
-10	14.57	1.15	30.95	41.87	47.34	63.72	80.10

HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

MODEL & HEAT KIT USAGE	CIRCUIT #1		CIRCUIT #2		ACTUAL KW / BTU@ 240V
	MCA ¹	MOP ²	MCA ¹	MOP ²	
GPH1524M41A*	4.3 / 4.3	--	--	--	--
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
GPH1530M41A*	4.3 / 4.3	--	--	--	--
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
GPH1536M41A*	4.3 / 4.3	--	--	--	--
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
GPH1542M41A*	4.3 / 4.3	--	--	--	--
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
GPH1543M41A*	2.9/2.9	--	--	--	--
HKR05A,CA	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR08A,CA	34 / 39	40 / 40	--	--	7.0 / 23,800
HKR10A,CA	45 / 52	60 / 60	--	--	9.5 / 32,400
HKR15A,CA	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1548M41A*	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
GPH1549M41A*	2.9/2.9	--	--	--	--
HKR05A,CA	25 / 28	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 40	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	46 / 53	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20A,CA	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
GPH1560M41A*	7.0 / 7.0	--	--	--	--
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

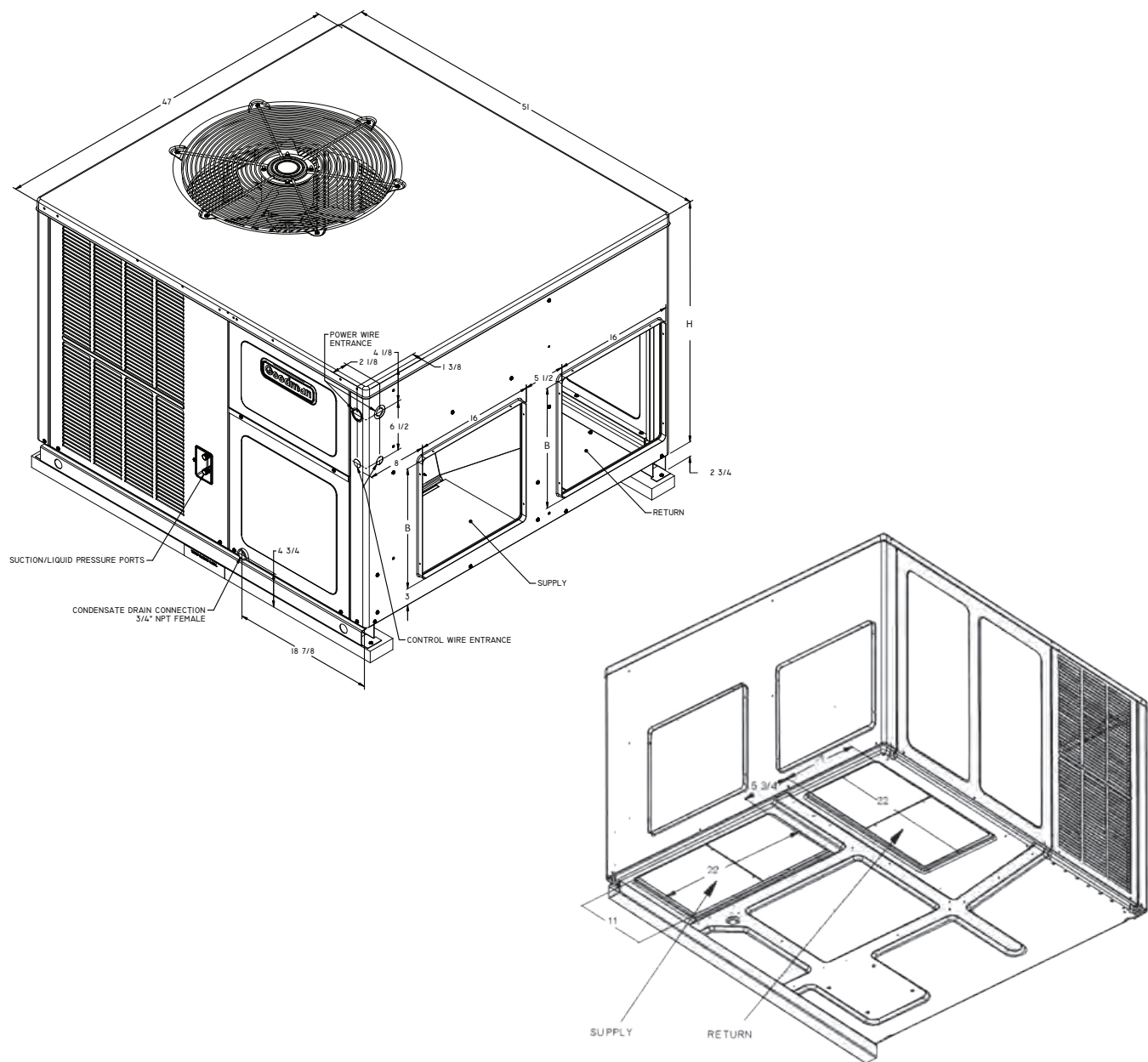
¹ Minimum Circuit Ampacity @ 460 V

² Maximum Overcurrent Protection device @ 460 V

* Revision level that may or may not be designated

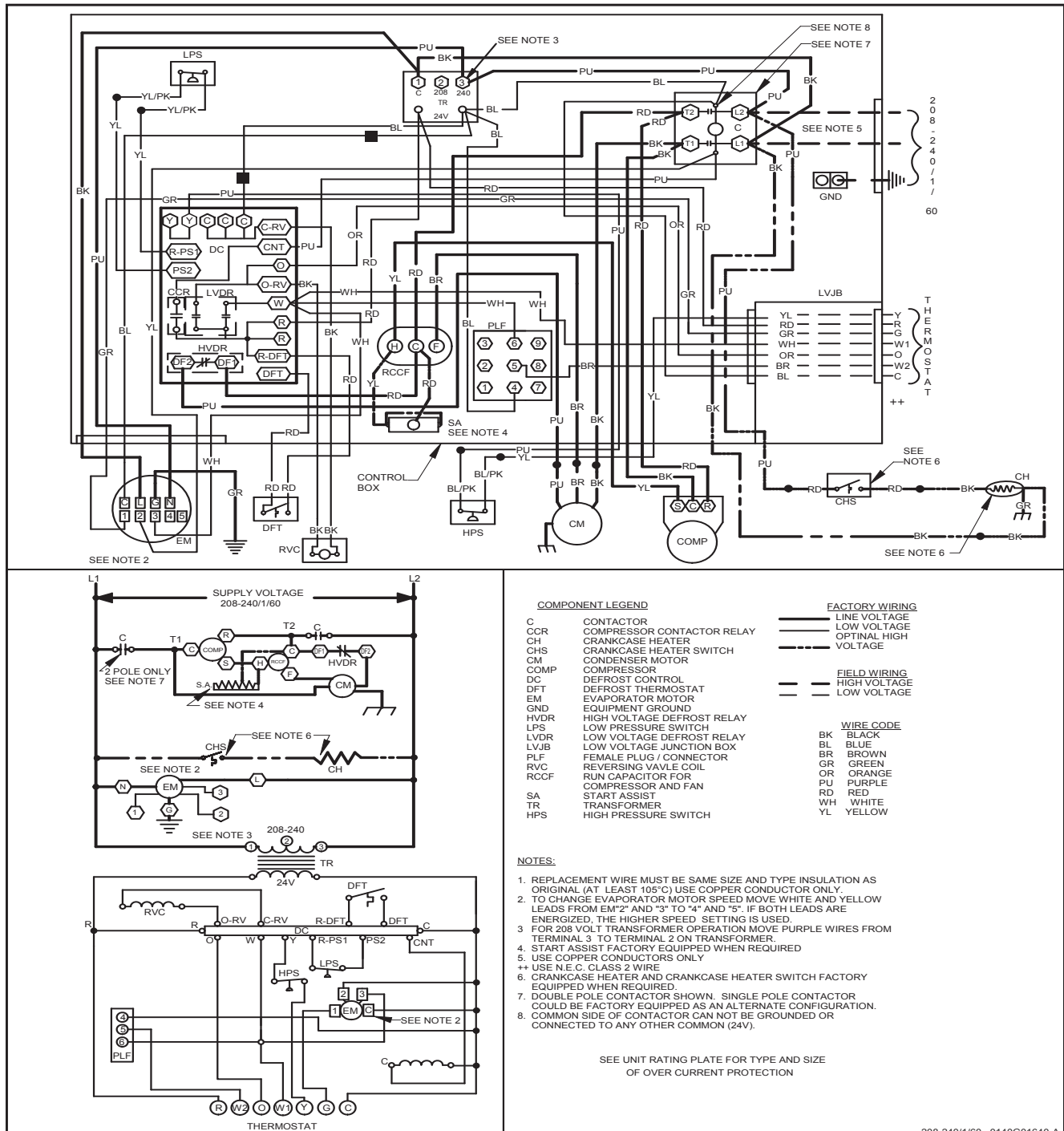
C Circuit Breaker option

DIMENSIONS



MODEL	MED.	LARGE	W"	D'	H'	B	H
GPH1524M41A	X		47	51	34%	16"	32½"
GPH1530M41A	X		47	51	34%	16"	32½"
GPH1536M41A	X		47	51	34%	16"	32½"
GPH1542M41A	X		47	51	34%	16"	32½"
GPH1543M41A		X	47	51	42%	18"	40"
GPH1548M41A		X	47	51	42%	18"	40"
GPH1549M41A		X	47	51	42%	18"	40"
GPH1560M41A		X	47	51	42%	18"	40"

WIRING DIAGRAM — GPH1524-36/43M41A*



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

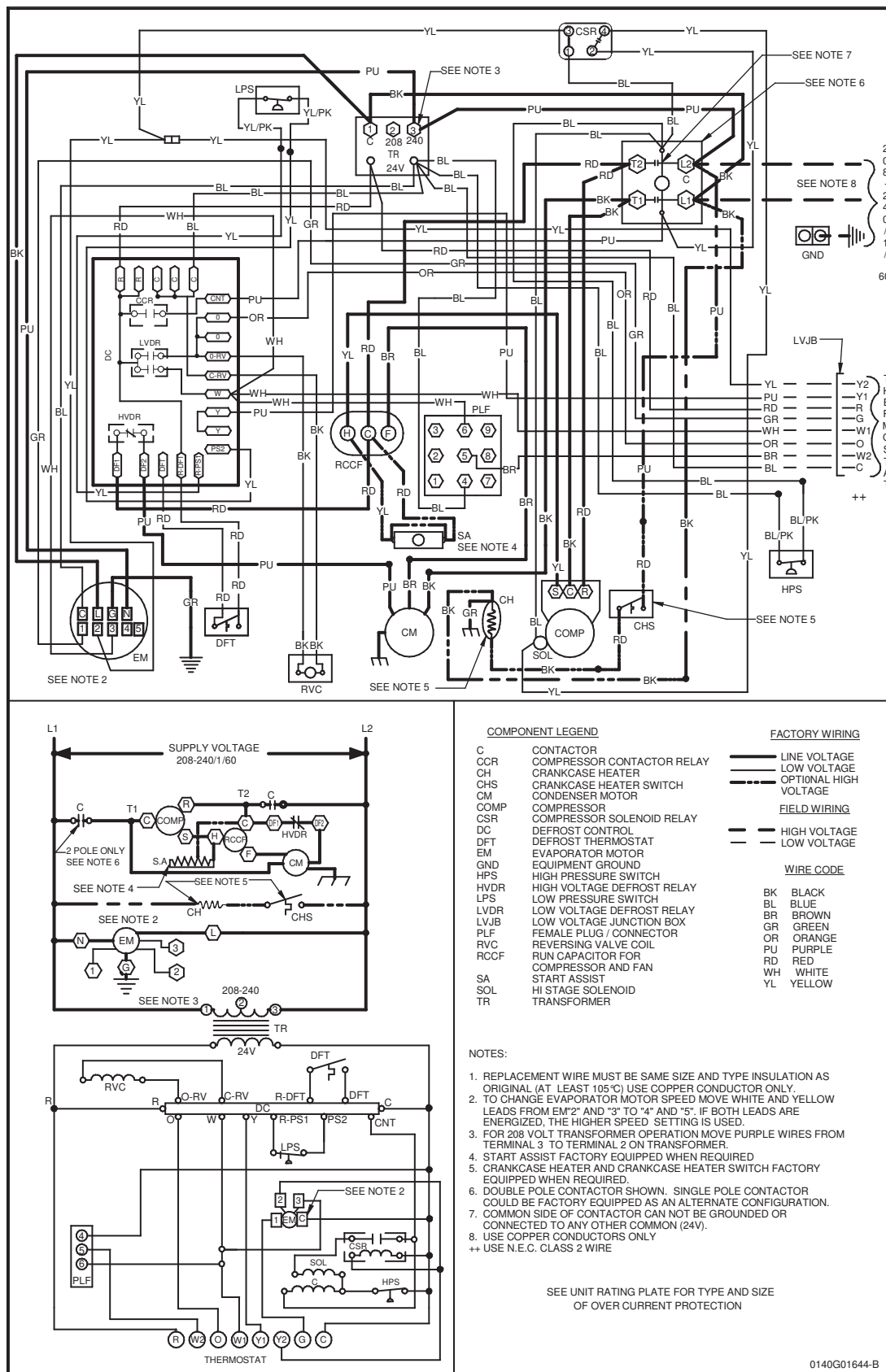


WARNING

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



WIRING DIAGRAM — GPH1542-60M41**



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

WARNING

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

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	SQRP101/102	SQRP103
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	SQRP101/102	SQRP103
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

NOTES

