



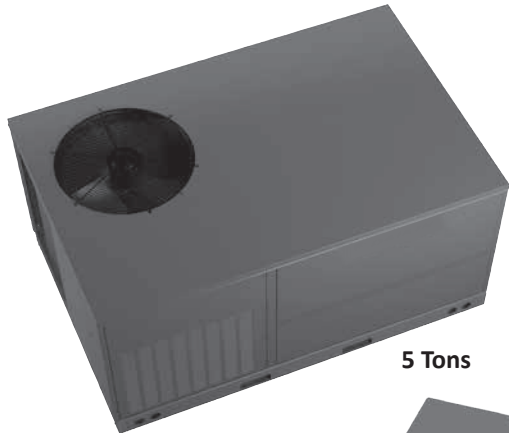
Air Conditioning & Heating

GPH16M

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

HEATING CAPACITY: 22,800 - 55,000 BTU/H

HIGH-EFFICIENCY PACKAGED HEAT PUMPS UP TO 16 SEER & 8.2 HSPF 2 THROUGH 5 TONS



5 Tons



2 - 4 Tons



Contents

Nomenclature.....	2
Product Specifications.....	3
Expanded Cooling Data.....	4
Airflow Data.....	16
Expanded Heating Data.....	16
Auxiliary Heat Data.....	20
Heat Kit Electrical Specs.....	23
Dipswitch Settings.....	24
Dimensions.....	25
Wiring Diagrams.....	29
Accessories.....	31

Standard Features

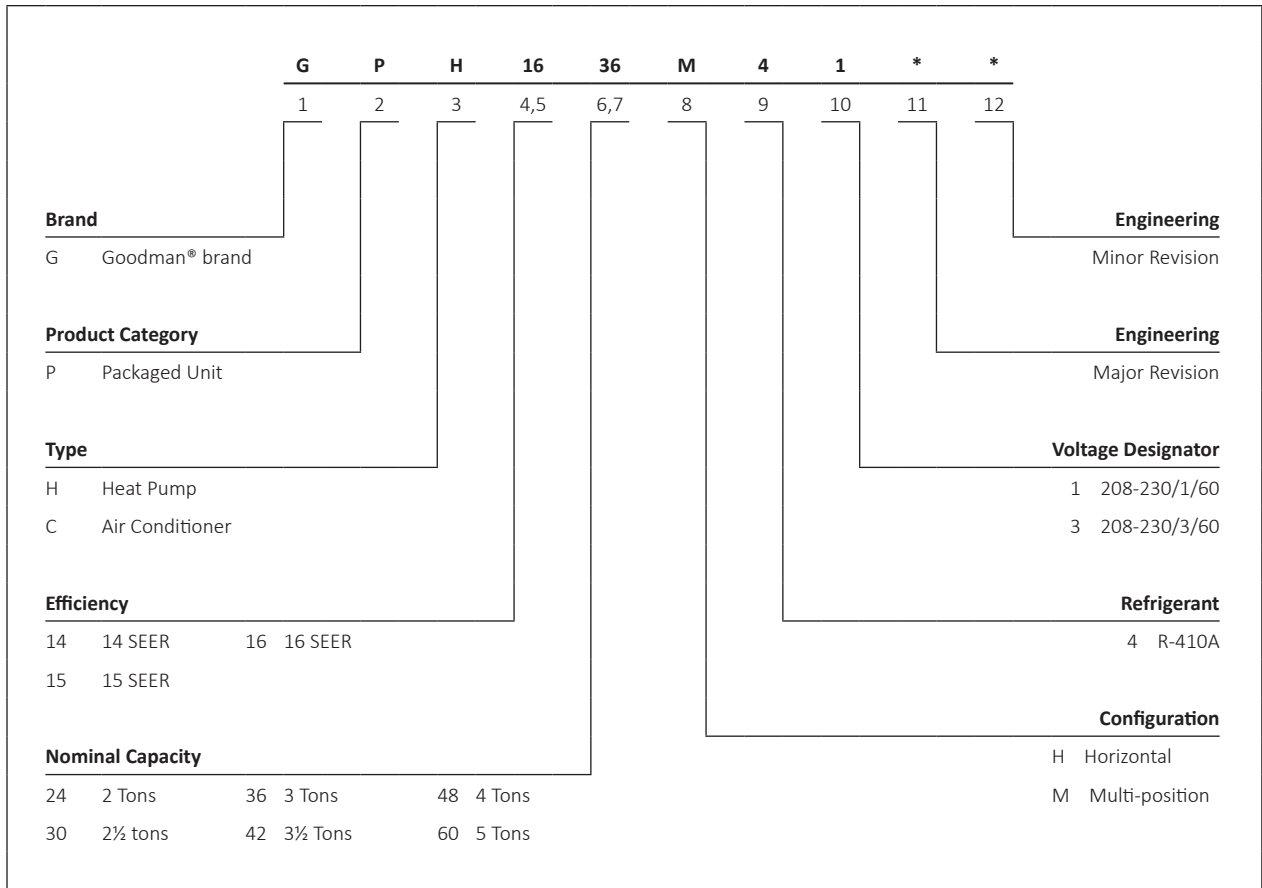
- Energy-efficient compressor with internal relief valve
- Two-stage heating and cooling
- Multi-Speed ECM indoor blower motor
- Liquid-line filter drier
- Convertible airflow: horizontal or downflow
- Copper tube/aluminum fin condenser coils
- All-aluminum evaporator coil on 2- to 4-ton units
- Aluminum-copper evaporator coil on 5-ton units
- Totally enclosed, permanently lubricated condenser fan motor
- Electric heat kit available as a field-installed option


Cabinet Features

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



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



	GPH16 24M41A*	GPH16 30M41A*	GPH16 36M41A*	GPH16 42M41A*	GPH16 48M41C*	GPH16 60M41A*
COOLING CAPACITY						
Total BTU/h	24,000	29,000	33,600	41,000	47,000	58,000
Sensible BTU/h	18,200	22,000	25,200	30,000	35,800	44,000
SEER / EER	16.0/ 12.5	15.5/ 12.0	16.0/ 12.0	16.0/ 12.0	16.0/ 12.0	16.0/ 12.0
Decibels	76	76	76	78	78	78
AHRI #s	8143312	8143313	8143314	8143315	8143316	9134480
HEATING CAPACITY						
BTU/h (47°F)	22,800	28,400	33,600	38,000	45,500	55,000
C.O.P (47°F)	3.6	3.5	3.6	3.6	3.7	3.8
BTU/h (17°F)	12,500	16,600	19,400	21,600	27,000	30,000
C.O.P (17°F)	2.3	2.4	2.4	2.3	2.4	2.4
HSPF	8.0	8.0	8.2	8.2	8.2	8.2
EVAPORATOR MOTOR						
Type	ECM	ECM	ECM	ECM	ECM	ECM
Wheel (D x W)	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9	11x 10
Nominal Cooling CFM	850	1,050	1,200	1,300	1,600	2,000
FLA	4.3	4.3	4.3	5.8	5.8	6.9
No. of Speeds	Variable	Variable	Variable	Variable	Variable	5
Horsepower - RPM	½ -1,050	½ -1,050	½ -1,050	¾ - 1,050	¾ - 1,050	1 - 1,050
EVAPORATOR COIL						
Face Area (ft²)	4.5	4.5	4.5	6.2	6.2	8.9
Rows Deep/ Fin per Inch	4/ 14	4/ 14	4/ 14	4/ 14	4/ 14	4/ 16
Expansion Device	TXV	TXV	TXV	TXV	TXV	TXV
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	137	137	137	170	170	240
CONDENSER FAN / COIL						
Horsepower - RPM	¼ - 850	¼ - 850	¼ - 850	¼ - 1,075	¼ - 1,075	1/3 - 1,090
FLA/LRA	1.5/ 3.0	1.5/ 3.0	1.5/ 3.0	1.4 / 2.9	1.4 / 2.9	2/ 4.4
Fan Diameter / # Fan Blades	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3	22 / 4
Expansion Device	TXV	TXV	TXV	TXV	TXV	TXV
Face Area (ft²)	15.5	15.5	15.5	19.4	19.4	19
Rows Deep/ Fin per Inch	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16	2 / 20
COMPRESSOR						
Quantity	1	1	1	1	1	1
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Stage	Two	Two	Two	Two	Two	Two
ELECTRICAL DATA						
Voltage/ Phase/ Hz	208-230/ 1	208-230/ 1	208-230/ 1	208-230/ 1	208-230/ 1	208-230/ 1
Compressor RLA/ LRA	11.7 / 58.3	13.1 / 73	15.3 / 83	17.9 / 96	21.2 / 104	26.9/ 152.9
Indoor Blower FLA	4.3	4.3	4.3	5.8	5.8	6.9
Total Unit Amps	17.5	18.9	21.1	25.1	28.4	35.8
Min. Circuit Ampacity ¹	20.4	22.2	24.9	29.6	33.7	42.5
Max. Overcurrent Protection ²	30	35	40	45	50	60
SHIPPING WEIGHT (LBS)						
	366	375	428	472	470	620
ENERGY STAR® CERTIFIED						
	NO	NO	NO	NO	NO	

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.

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																																															
		65°F					75°F					85°F					95°F					105°F					115°F																						
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75																		
70	MBh	57.5	59.6	65.3	-	56.2	58.2	63.8	-	54.8	56.8	62.3	-	53.5	55.5	60.8	-	50.8	52.7	57.7	-	47.1	48.8	53.5	-	57.5	59.6	65.3	-	56.2	58.2	63.8	-	54.8	56.8	62.3	-	53.5	55.5	60.8	-	50.8	52.7	57.7	-	47.1	48.8	53.5	-
	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	-	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	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-
	KW	3.82	3.89	4.01	-	4.10	4.19	4.32	-	4.35	4.44	4.58	-	4.57	4.67	4.82	-	4.76	4.86	5.02	-	4.92	5.03	5.19	-	3.82	3.89	4.01	-	4.10	4.19	4.32	-	4.35	4.44	4.58	-	4.57	4.67	4.82	-	4.76	4.86	5.02	-	4.92	5.03	5.19	-
	Amps	16.3	16.7	17.2	-	17.5	17.9	18.4	-	18.8	19.2	19.8	-	20.0	20.4	21.0	-	21.1	21.6	22.2	-	22.3	22.8	23.5	-	16.3	16.7	17.2	-	17.5	17.9	18.4	-	18.8	19.2	19.8	-	20.0	20.4	21.0	-	21.1	21.6	22.2	-	22.3	22.8	23.5	-
75	MBh	55.8	57.9	63.4	-	54.5	56.5	61.9	-	53.2	55.2	60.5	-	51.9	53.8	59.0	-	49.3	51.1	56.0	-	45.7	47.4	51.9	-	55.8	57.9	63.4	-	54.5	56.5	61.9	-	53.2	55.2	60.5	-	51.9	53.8	59.0	-	49.3	51.1	56.0	-	45.7	47.4	51.9	-
	S/T	0.73	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	0.70	0.49	-	0.73	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	0.70	0.49	-
	ΔT	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-
	KW	3.79	3.86	3.98	-	4.07	4.15	4.28	-	4.32	4.41	4.55	-	4.54	4.63	4.78	-	4.72	4.82	4.98	-	4.88	4.99	5.15	-	3.79	3.86	3.98	-	4.07	4.15	4.28	-	4.32	4.41	4.55	-	4.54	4.63	4.78	-	4.72	4.82	4.98	-	4.88	4.99	5.15	-
	Amps	16.2	16.5	17.0	-	17.3	17.7	18.2	-	18.7	19.1	19.6	-	19.8	20.2	20.8	-	21.0	21.4	22.1	-	22.1	22.6	23.3	-	16.2	16.5	17.0	-	17.3	17.7	18.2	-	18.7	19.1	19.6	-	19.8	20.2	20.8	-	21.0	21.4	22.1	-	22.1	22.6	23.3	-
2201	MBh	53.0	55.0	60.2	-	51.8	53.7	58.8	-	50.6	52.4	57.4	-	49.3	51.1	56.0	-	46.9	48.6	53.2	-	43.4	45.0	49.3	-	53.0	55.0	60.2	-	51.8	53.7	58.8	-	50.6	52.4	57.4	-	49.3	51.1	56.0	-	46.9	48.6	53.2	-	43.4	45.0	49.3	-
	S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-	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	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-
	KW	3.73	3.81	3.92	-	4.00	4.09	4.21	-	4.25	4.34	4.47	-	4.46	4.56	4.70	-	4.64	4.74	4.90	-	4.80	4.91	5.07	-	3.73	3.81	3.92	-	4.00	4.09	4.21	-	4.25	4.34	4.47	-	4.46	4.56	4.70	-	4.64	4.74	4.90	-	4.80	4.91	5.07	-
	Amps	16.0	16.3	16.7	-	17.1	17.4	17.9	-	18.4	18.8	19.3	-	19.5	19.9	20.5	-	20.6	21.1	21.7	-	21.7	22.2	22.9	-	16.0	16.3	16.7	-	17.1	17.4	17.9	-	18.4	18.8	19.3	-	19.5	19.9	20.5	-	20.6	21.1	21.7	-	21.7	22.2	22.9	-

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

Shaded area reflects ACCA (TVA) conditions.
IDB: Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction service valves.
Design Subcooling, 5-7°F @ the liquid access fitting connection AHRI95 test conditions. Design Superheat: 15-18°F @ the compressor suction access fitting connection.

GPH1624M41*

HORIZONTAL POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	671	616	567	---	---	---	---	---	---
WATTS			51	57	72	---	---	---	---	---	---	---
T2/T3	230	CFM	941	872	777	746	614	---	---	---	---	---
		WATTS	105	112	113	128	138	---	---	---	---	---
T4/T5	230	CFM	1347	1315	1256	1194	1152	1096	1051	972	891	---
		WATTS	239	256	265	271	282	286	293	297	305	---

DOWNSHOT POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	699	595	523	---	---	---	---	---	---
WATTS			57	61	72	---	---	---	---	---	---	---
T2/T3	230	CFM	919	855	782	695	631	578	523	---	---	---
		WATTS	108	117	121	132	143	144	149	---	---	---
T4/T5	230	CFM	1312	1275	1216	1153	1096	1028	943	869	816	---
		WATTS	260	269	274	285	295	300	304	310	316	---

GPH1630M41*

HORIZONTAL POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	743	707	595	513	---	---	---	---	---
WATTS			61	73	77	85	---	---	---	---	---	---
T2/T3	230	CFM	1146	1098	1044	991	934	817	764	698	653	---
		WATTS	157	170	176	186	194	201	210	215	215	---
T4/T5	230	CFM	1440	1418	1364	1307	1265	1219	1168	1094	1049	---
		WATTS	290	306	312	321	326	332	348	353	360	---

DOWNSHOT POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	722	672	574	509	---	---	---	---	---
WATTS			60	74	80	89	---	---	---	---	---	---
T2/T3	230	CFM	1103	1038	978	922	806	731	676	622	564	---
		WATTS	162	168	179	188	199	205	208	214	219	---
T4/T5	230	CFM	1401	1357	1305	1244	1179	1118	1046	934	884	---
		WATTS	311	326	318	334	341	349	353	352	357	---

GPH1636M41*

HORIZONTAL POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	846	762	716	585	519	---	---	---	---
WATTS			74	83	94	98	108	---	---	---	---	---
T2/T3	230	CFM	1278	1214	1182	1129	1072	1013	950	853	788	---
		WATTS	221	218	232	245	253	264	265	275	272	---
T4/T5	230	CFM	1604	1560	1507	1468	1415	1364	1321	1276	1218	---
		WATTS	396	402	408	424	426	423	444	454	454	---

DOWNSHOT POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	809	730	623	542	485	441	---	---	---
Watts			73	85	92	98	107	112	---	---	---	---
T2/T3	230	CFM	1284	1223	1175	1097	1031	974	871	804	761	---
		Watts	220	227	241	247	255	262	272	277	285	---
T4/T5	230	CFM	1578	1539	1498	1452	1396	1332	1279	1224	1161	---
		Watts	401	409	421	425	438	439	452	453	455	---

GPH1642M41*

HORIZONTAL POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	1030	955	908	826	761	678	633	563	504
WATTS			130	126	139	143	154	168	171	181	185	
T2/T3	230	CFM	1425	1373	1303	1250	1228	1158	1109	1042	982	
		WATTS	234	246	248	262	280	290	298	308	322	
T4/T5	230	CFM	1775	1718	1673	1643	1588	1532	1482	1431	1369	
		WATTS	416	424	430	454	458	466	478	488	490	

DOWNSHOT POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	1001	936	852	810	700	643	579	526	491
WATTS			125	133	136	154	160	166	172	177	185	
T2/T3	230	CFM	1411	1361	1299	1240	1173	1112	1048	955	887	
		WATTS	281	294	301	309	312	320	327	335	339	
T4/T5	230	CFM	1745	1690	1615	1580	1530	1470	1420	1370	1310	
		WATTS	425	435	440	465	468	476	488	498	500	

DPH1648M41*

HORIZONTAL POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	1167	1101	1045	992	939	870	802	732	681
WATTS			139	144	156	165	177	193	203	217	223	
T2/T3	230	CFM	1723	1637	1598	1554	1509	1467	1420	1361	1295	
		WATTS	372	370	381	390	404	411	420	427	441	
T4/T5	230	CFM	2012	1965	1912	1871	1809	1770	1741	1691	1635	
		WATTS	578	593	599	606	610	627	626	634	638	

DOWNSHOT POSITION	MOTOR SPEED	VOLTS	STATIC									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	T1	230	CFM	1155	1074	1023	969	896	805	755	667	626
WATTS			153	156	169	180	195	205	216	226	230	
T2/T3	230	CFM	1670	1596	1558	1484	1467	1383	1339	1259	1168	
		WATTS	383	392	399	408	419	434	436	447	449	
T4/T5	230	CFM	1949	1881	1853	1792	1753	1699	1621	1561	1522	
		WATTS	603	607	608	616	622	626	648	650	645	

GPG1660***M41**

DOWNSHOT

SPEED TAP	STATIC	CFM	AMPS	WATTS	RPM
T1	0.1	1334	1.65	180	627
	0.2	1286	1.75	192	665
	0.3	1212	1.83	202	715
	0.4	1144	1.94	216	759
	0.5	1077	1.99	222	792
	0.6	1039	2.10	238	830
	0.7	953	2.17	248	874
	0.8	904	2.27	258	913
	0.9	825	2.30	266	940
T2	0.1	1512	2.12	240	682
	0.2	1469	2.24	254	720
	0.3	1397	2.31	264	759
	0.4	1333	2.44	282	803
	0.5	1285	2.54	296	836
	0.6	1221	2.59	304	874
	0.7	1173	2.72	322	913
	0.8	1118	2.77	328	946
	0.9	1049	2.90	344	984
T3	0.1	2053	4.27	540	869
	0.2	2014	4.39	558	896
	0.3	1999	4.60	576	929
	0.4	1947	4.68	588	957
	0.5	1897	4.79	608	989
	0.6	1857	4.87	620	1012
	0.7	1763	4.99	640	1050
	0.8	1741	5.06	650	1072
	0.9	1669	5.19	668	1105
T4	0.1	2137	4.95	634	913
	0.2	2093	5.07	652	940
	0.3	2095	5.19	670	962
	0.4	2026	5.28	682	990
	0.5	1980	5.40	698	1018
	0.6	1961	5.49	720	1039
	0.7	1914	5.58	732	1072
	0.8	1845	5.70	742	1100
	0.9	1766	5.69	740	1127
T5	0.1	2299	5.70	742	942
	0.2	2233	5.80	748	969
	0.3	2217	5.90	768	990
	0.4	2157	6.07	786	1018
	0.5	2131	6.12	804	1045
	0.6	2060	6.21	816	1073
	0.7	2015	6.30	820	1095
	0.8	1940	6.27	816	1111
	0.9	1862	6.13	790	1128

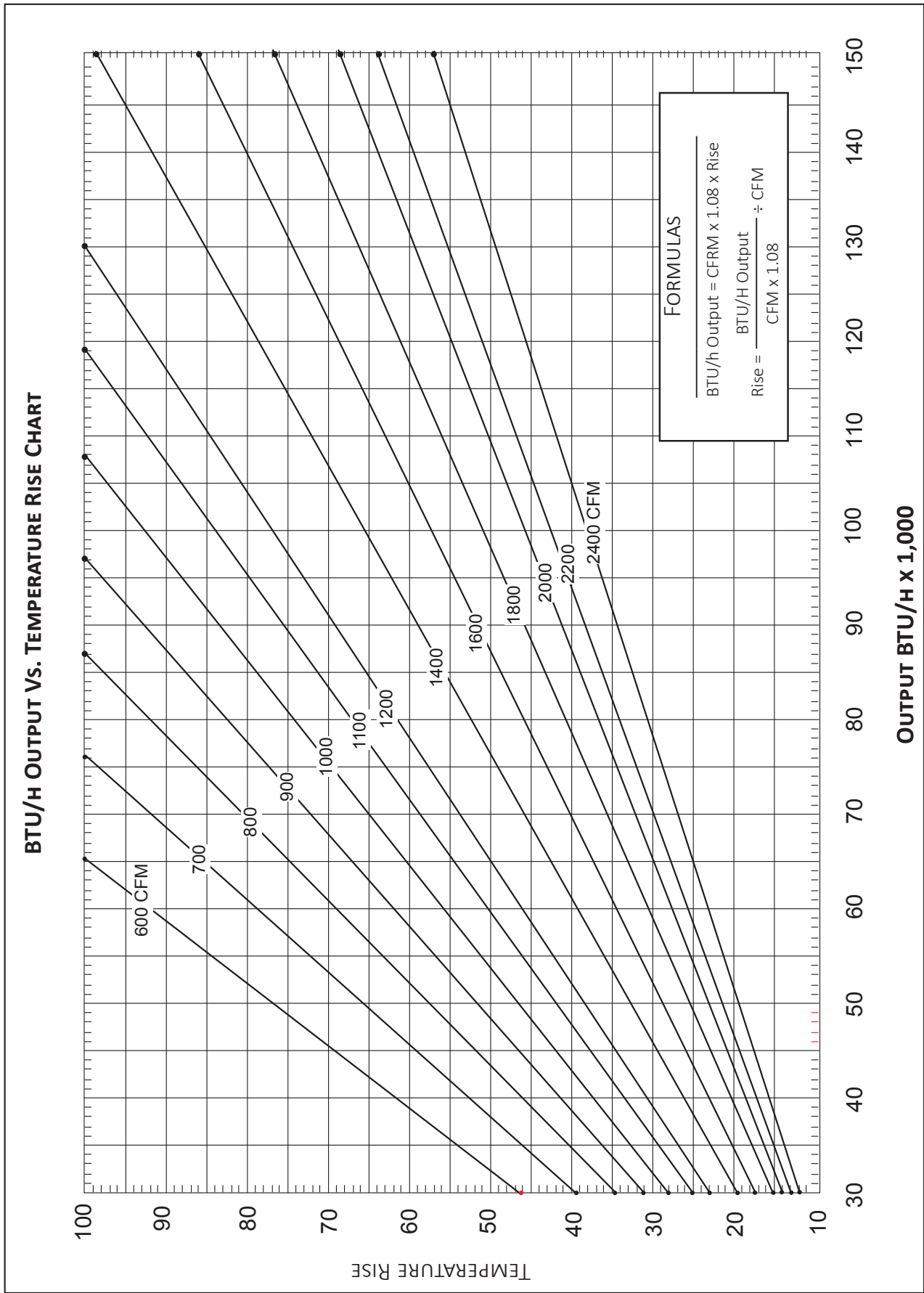
HORIZONTAL

SPEED TAP	ESP IN W.C.	CFM	AMPS	WATTS	RPM
T1	0.1	1355	1.57	174	599
	0.2	1281	1.66	182	651
	0.3	1235	1.76	196	693
	0.4	1168	1.81	202	726
	0.5	1118	1.94	218	775
	0.6	1049	2.03	232	819
	0.7	982	2.10	240	858
	0.8	922	2.14	246	885
	0.9	871	2.25	260	927
T2	0.1	1544	2.04	234	660
	0.2	1490	2.17	250	704
	0.3	1427	2.25	260	742
	0.4	1370	2.35	276	781
	0.5	1319	2.42	282	809
	0.6	1274	2.52	296	849
	0.7	1210	2.62	316	891
	0.8	1137	2.73	326	935
	0.9	1106	2.77	336	957
T3	0.1	2099	4.13	516	825
	0.2	2068	4.25	536	852
	0.3	2029	4.37	552	885
	0.4	1971	4.48	568	913
	0.5	1911	4.61	586	950
	0.6	1876	4.73	604	973
	0.7	1821	4.86	622	1012
	0.8	1792	4.91	630	1028
	0.9	1740	5.03	648	1067
T4	0.1	2233	4.76	608	863
	0.2	2168	4.91	628	896
	0.3	2125	5.02	640	924
	0.4	2070	5.14	660	951
	0.5	2050	5.27	678	979
	0.6	1980	5.41	696	1012
	0.7	1954	5.47	704	1034
	0.8	1893	5.60	724	1067
	0.9	1852	5.70	736	1089
T5	0.1	2322	5.44	710	904
	0.2	2294	5.55	726	934
	0.3	2254	5.68	742	958
	0.4	2201	5.80	766	990
	0.5	2147	5.93	782	1017
	0.6	2117	6.01	788	1039
	0.7	2081	6.12	808	1060
	0.8	2017	6.22	822	1094
	0.9	1932	6.10	804	1111

NOTES

- Table represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P..
- SCFM correction for wet coil = 4%.
- 5-ton models are shipped from the factory with speed tap set on T4.

AIRFLOW PRESSURE DROP OF DOWNFLOW ECONOMIZER FOR 3 TO 6 TON ROOFTOP UNITS (100% RETURN AIR)											
SCFM	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800
in. WG	0.02	0.04	0.05	0.07	0.09	0.12	0.14	0.17	0.21	0.24	0.28



EXPANDED HEATING DATA

GPH1624M41**

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.7	27.1	25.5	23.9	22.8	22.1	20.5	18.9	15.6	14.4	13.2	12.5	12.0	10.8	9.6	8.4	7.1	5.8
T/R	31.2	29.6	27.8	26.0	24.8	24.1	22.4	20.6	17.0	15.7	14.4	13.6	13.1	11.8	10.4	9.1	7.8	6.4
kW	1.96	1.92	1.88	1.84	1.82	1.80	1.76	1.72	1.68	1.64	1.60	1.58	1.56	1.52	1.49	1.45	1.41	1.37
amps	10.0	9.4	8.8	8.4	8.1	8.0	7.6	7.3	7.0	6.7	6.5	6.3	6.3	6.0	5.7	5.4	5.1	4.7
COP	4.28	4.14	3.98	3.80	3.67	3.59	3.41	3.21	2.71	2.57	2.42	2.32	2.25	2.07	1.89	1.69	1.48	1.25
EER	15	14	14	13	13	12	12	11	9	9	8	8	8	7	6	6	5	4
HI PR	397	381	366	350	342	336	323	310	297	283	272	265	261	251	241	231	223	215
LO PR	141.8	131.6	123.3	113.1	106.9	102.8	94.6	84.2	76.0	67.9	59.6	55.5	53.4	45.2	39.0	32.9	28.7	22.5

GPH1630M41**

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	35.7	33.8	31.8	29.7	28.4	27.5	25.6	23.6	20.7	19.1	17.6	16.6	16.0	14.3	12.7	11.1	9.5	7.8
T/R	31.5	29.8	28.0	26.2	25.0	24.3	22.5	20.8	18.2	16.8	15.5	14.6	14.1	12.6	11.2	9.8	8.3	6.8
kW	2.56	2.51	2.45	2.40	2.37	2.35	2.30	2.25	2.25	2.20	2.15	2.12	2.09	2.04	1.99	1.94	1.88	1.83
amps	12.9	12.0	11.3	10.7	10.4	10.2	9.7	9.2	8.9	8.5	8.2	8.0	7.9	7.6	7.2	6.8	6.4	5.9
COP	4.08	3.95	3.79	3.62	3.50	3.43	3.25	3.07	2.69	2.54	2.40	2.30	2.23	2.06	1.87	1.68	1.47	1.24
EER	14	13	13	12	12	12	11	10	9	9	8	8	8	7	6	6	5	4
HI PR	416	399	383	366	358	351	337	324	310	296	284	278	273	262	252	242	233	225
LO PR	134.9	125.2	117.3	107.6	101.7	97.8	90.0	80.1	72.3	64.6	56.7	52.8	50.8	43.0	37.1	31.3	27.3	21.5

GPH1636M41**

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	42.1	39.9	37.5	35.1	33.5	32.5	30.2	27.8	24.2	22.4	20.6	19.4	18.7	16.8	14.9	13.0	11.1	9.1
T/R	32.5	30.8	29.0	27.1	25.8	25.0	23.3	21.5	18.7	17.2	15.9	15.0	14.4	13.0	11.5	10.0	8.5	7.0
kW	2.85	2.79	2.73	2.67	2.64	2.62	2.56	2.50	2.48	2.42	2.37	2.33	2.31	2.25	2.19	2.14	2.08	2.02
amps	14.5	13.6	12.8	12.1	11.7	11.5	11.0	10.5	10.1	9.7	9.3	9.1	9.0	8.7	8.2	7.8	7.3	6.7
COP	4.33	4.18	4.02	3.84	3.71	3.63	3.45	3.25	2.85	2.70	2.54	2.44	2.37	2.18	1.99	1.78	1.56	1.31
EER	15	14	14	13	13	12	12	11	10	9	9	8	8	7	7	6	5	4
HI PR	399	383	368	352	344	337	324	311	298	285	273	267	262	252	242	232	224	216
LO PR	133.8	124.1	116.4	106.7	100.9	97.0	89.3	79.5	71.7	64.0	56.3	52.3	50.4	42.7	36.8	31.1	27.1	21.3

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

GPH1642M41

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	47.8	45.2	42.6	39.8	38.0	36.8	34.2	31.5	26.8	24.7	22.8	21.5	20.7	18.6	16.5	14.4	12.3	10.0
T/R	34.0	32.2	30.3	28.3	27.1	26.2	24.4	22.5	19.1	17.6	16.2	15.3	14.7	13.2	11.7	10.2	8.7	7.2
kW	3.53	3.46	3.38	3.31	3.27	3.24	3.17	3.10	2.94	2.87	2.80	2.76	2.73	2.66	2.59	2.53	2.46	2.39
amps	17.8	16.6	15.6	14.8	14.3	14.0	13.3	12.7	12.2	11.7	11.2	11.0	10.9	10.4	9.8	9.3	8.7	8.0
COP	3.96	3.83	3.68	3.51	3.40	3.33	3.16	2.98	2.67	2.52	2.38	2.28	2.22	2.04	1.86	1.66	1.46	1.23
EER	14	13	13	12	12	11	11	10	9	9	8	8	8	7	6	6	5	4
HI PR	417	399	384	367	359	352	338	324	311	297	285	278	273	263	253	242	234	226
LO PR	134.9	125.1	117.3	107.5	101.7	97.8	90.0	80.1	72.3	64.5	56.7	52.8	50.8	43.0	37.1	31.3	27.3	21.4

GPH1648M41

	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	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
T/R	33.1	31.3	29.5	27.6	26.3	25.5	23.7	21.9	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
kW	3.94	3.86	3.78	3.71	3.66	3.63	3.55	3.47	3.36	3.28	3.21	3.16	3.13	3.05	2.98	2.90	2.82	2.75
amps	20.8	19.4	18.2	17.2	16.6	16.3	15.5	14.8	14.2	13.6	13.0	12.7	12.6	12.0	11.3	10.7	10.0	9.1
COP	4.25	4.10	3.94	3.76	3.64	3.56	3.37	3.18	2.93	2.77	2.61	2.50	2.43	2.24	2.03	1.82	1.59	1.34
EER	15	14	13	13	12	12	12	11	10	9	9	9	8	8	7	6	5	5
HI PR	404	387	372	356	348	341	328	315	301	288	276	270	265	255	245	235	227	219
LO PR	133.3	123.7	115.9	106.3	100.5	96.6	88.9	79.2	71.4	63.8	56.1	52.1	50.2	42.5	36.7	30.9	27.0	21.2

GPH1660M41

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.7	66.0	62.1	58.0	55.4	53.7	49.9	46.0	38.2	35.3	32.5	30.7	29.5	26.5	23.5	20.5	17.5	14.3
T/R	32.9	31.1	29.3	27.4	26.2	25.4	23.5	21.7	18.0	16.6	15.3	14.5	13.9	12.5	11.1	9.7	8.3	6.8
kW	4.54	4.45	4.36	4.28	4.23	4.19	4.11	4.02	3.94	3.85	3.77	3.72	3.68	3.59	3.51	3.42	3.34	3.25
amps	23.7	22.1	20.8	19.7	19.0	18.7	17.8	17.0	16.3	15.7	15.0	14.7	14.6	13.9	13.1	12.5	11.7	10.7
COP	4.49	4.34	4.16	3.97	3.84	3.75	3.56	3.35	2.84	2.68	2.52	2.42	2.35	2.16	1.96	1.75	1.53	1.29
EER	15	15	14	14	13	13	12	11	10	9	9	8	8	7	7	6	5	4
HI PR	295	283	272	260	254	249	239	230	220	210	202	197	193	186	179	171	165	160
LO PR	133.4	123.7	116.0	106.3	100.5	96.7	88.9	79.2	71.5	63.8	56.1	52.2	50.3	42.5	36.7	31.0	27.0	21.2

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

AUXILIARY HEATING DATA

A/GPH1624M41						
CONDITIONS: 850 CFM; INDOOR AIR @ 70°F DB						
OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUXILIARY HEAT		UNIT CAPACITY WITH KW OF AUXILIARY HEAT			
	CAPACITY*	COP	4.8	9.6	14.4	19.2
65	28.66	4.28	45.04	61.42	-	-
60	27.13	4.14	43.51	59.90	-	-
55	25.54	3.97	41.92	58.30	-	-
50	23.87	3.79	40.25	56.64	-	-
45	22.09	3.58	38.48	54.86	-	-
40	20.52	3.40	36.90	53.28	-	-
35	18.92	3.21	35.31	51.69	-	-
30	15.58	2.72	31.96	48.34	-	-
25	14.38	2.57	30.76	47.14	-	-
20	13.24	2.42	29.62	46.00	-	-
15	12.04	2.25	28.42	44.80	-	-
10	10.80	2.07	27.18	43.56	-	-
5	9.58	1.88	25.96	42.34	-	-
0	8.35	1.68	24.73	41.11	-	-
-5	7.13	1.48	23.51	39.89	-	-
-10	5.84	1.24	22.22	38.60	-	-

A/GPH1630M41						
CONDITIONS: 1050 CFM; INDOOR AIR @ 70°F DB						
OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUXILIARY HEAT		UNIT CAPACITY WITH KW OF AUXILIARY HEAT			
	CAPACITY*	COP	4.8	9.6	14.4	19.2
65	35.70	4.09	52.08	68.46	84.846	-
60	33.80	3.95	50.18	66.56	82.9432	-
55	31.81	3.80	48.19	64.57	80.9552	-
50	29.73	3.63	46.12	62.50	78.882	-
45	27.52	3.43	43.90	60.28	76.6668	-
40	25.56	3.26	41.94	58.32	74.7072	-
35	23.57	3.07	39.95	56.34	72.7192	-
30	20.68	2.68	37.07	53.45	69.8308	-
25	19.09	2.53	35.47	51.85	68.2372	-
20	17.58	2.39	33.96	50.34	66.7266	-
15	15.99	2.23	32.37	48.75	65.133	-
10	14.34	2.05	30.72	47.11	63.4896	-
5	12.72	1.87	29.10	45.48	61.8628	-
0	11.09	1.67	27.47	43.85	60.236	-
-5	9.46	1.47	25.84	42.23	58.6092	-
-10	7.75	1.24	24.13	40.52	56.8994	-

A/GPH1636M41						
CONDITIONS: 1200 CFM; INDOOR AIR @ 70°F DB						
OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUXILIARY HEAT		UNIT CAPACITY WITH KW OF AUXILIARY HEAT			
	CAPACITY*	COP	4.8	9.6	14.4	19.2
65	42.11	4.33	58.49	74.87	91.27	-
60	39.87	4.18	56.25	72.63	89.01	-
55	37.52	4.02	53.90	70.28	86.67	-
50	35.07	3.84	51.46	67.84	84.22	-
45	32.46	3.63	48.84	65.23	81.61	-
40	30.15	3.45	46.53	62.91	79.30	-
35	27.81	3.25	44.19	60.57	76.95	-
30	24.22	2.86	40.60	56.99	73.37	-
25	22.36	2.70	38.74	55.12	71.50	-
20	20.59	2.55	36.97	53.35	69.73	-
15	18.72	2.37	35.10	51.49	67.87	-
10	16.80	2.19	33.18	49.56	65.94	-
5	14.89	1.99	31.27	47.66	64.04	-
0	12.99	1.78	29.37	45.75	62.13	-
-5	11.08	1.56	27.46	43.85	60.23	-
-10	9.08	1.32	25.46	41.84	58.23	-

A/GPH1642M41						
CONDITIONS: 1300 CFM; INDOOR AIR @ 70°F DB						
OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUXILIARY HEAT		UNIT CAPACITY WITH KW OF AUXILIARY HEAT			
	CAPACITY*	COP	4.8	9.6	14.4	19.2
65	47.77	3.99	64.15	80.53	96.91	-
60	45.22	3.85	61.60	77.98	94.37	-
55	42.56	3.69	58.94	75.32	91.71	-
50	39.79	3.52	56.17	72.55	88.93	-
45	36.82	3.32	53.20	69.59	85.97	-
40	34.20	3.15	50.58	66.96	83.35	-
35	31.54	2.96	47.92	64.30	80.69	-
30	26.91	2.70	43.30	59.68	76.06	-
25	24.84	2.55	41.22	57.60	73.99	-
20	22.87	2.39	39.26	55.64	72.02	-
15	20.80	2.22	37.18	53.57	69.95	-
10	18.66	2.04	35.04	51.43	67.81	-
5	16.55	1.85	32.93	49.31	65.69	-
0	14.43	1.65	30.81	47.19	63.58	-
-5	12.31	1.44	28.69	45.08	61.46	-
-10	10.09	1.21	26.47	42.85	59.23	-

A/GPH1648M41						
CONDITIONS: 1600 CFM; INDOOR AIR @ 70°F DB						
OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUXILIARY HEAT		UNIT CAPACITY WITH KW OF AUXILIARY HEAT			
	CAPACITY*	COP	4.8	9.6	14.4	19.2
65	57.19	4.25	73.58	89.96	106.34	122.72
60	54.15	4.10	70.53	86.91	103.29	119.67
55	50.96	3.94	67.34	83.72	100.11	116.49
50	47.64	3.76	64.02	80.40	96.78	113.17
45	44.09	3.56	60.47	76.85	93.24	109.62
40	40.95	3.37	57.33	73.71	90.10	106.48
35	37.77	3.18	54.15	70.53	86.91	103.29
30	33.64	2.93	50.02	66.41	82.79	99.17
25	31.05	2.77	47.43	63.81	80.20	96.58
20	28.59	2.61	44.98	61.36	77.74	94.12
15	26.00	2.43	42.38	58.77	75.15	91.53
10	23.33	2.24	39.71	56.09	72.48	88.86
5	20.68	2.03	37.06	53.45	69.83	86.21
0	18.04	1.82	34.42	50.80	67.18	83.57
-5	15.39	1.60	31.77	48.15	64.54	80.92
-10	12.61	1.34	28.99	45.37	61.76	78.14

GPH1660M41					
CONDITION : 2000 CMF; INDOOR AIR @ 70 °F DB					
OUTDOOR AMBIENT °F.	BASIC UNIT W/O AUXILIARY HEAT		UNIT CAPACITY WITH KW OF AUX. HEAT		
	CAPACITY*	COP	10	15	20
65	69.70	4.49	103.82	120.88	137.94
60	66.00	4.34	100.12	117.18	134.24
55	62.10	4.16	96.22	113.28	130.34
50	58.00	3.97	92.22	109.28	126.34
45	53.70	3.75	87.82	104.88	121.94
40	49.90	3.56	84.02	101.08	118.14
35	46.00	3.35	80.12	97.18	114.24
30	38.20	2.84	71.82	88.88	105.94
25	35.30	2.68	68.92	85.98	103.04
20	32.50	2.52	66.22	83.28	100.34
15	29.50	2.35	63.32	80.38	97.44
10	26.50	2.16	60.32	77.38	94.44
5	23.50	1.96	57.32	74.38	91.44
0	20.50	1.75	54.32	71.38	88.44
-5	17.50	1.53	51.42	68.48	85.54
-10	14.30	1.29	48.22	65.28	82.34

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)

HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

MODEL AND HEAT KIT USAGE	CIRCUIT #1		CIRCUIT #2		ACTUAL kW / BTU@ 460V
	MCA ¹	MOD ²	MCA ¹	MOD ²	
GPH1624M41**	4.3 / 4.3	--	--	--	--
HKP-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKP-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
GPH1630M41**	4.3 / 4.3	--	--	--	--
HKP-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKP-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
HKP-15C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1636M41**	4.3 / 4.3	--	--	--	--
HKP-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR-08*, HKR-08C*	34 / 39	40 / 40	--	--	7.0 / 23,800
HKP-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
HKP-15C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1642M41**	5.8/5.8	--	--	--	--
HKP-05C*	24 / 27	30 / 30	--	--	4.75 / 16,200
HKR08A,CA	34 / 39	40 / 40	--	--	7.0 / 23,800
HKP-10C*	45 / 52	60 / 60	--	--	9.5 / 32,400
HKP-15C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1648M41* *	5.8/5.8	--	--	--	--
HKP-05C*	25 / 28	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 40	40 / 40	----	----	7.00 / 23,800
HKP-10C*	46 / 53	60 / 60	----	----	9.50 / 32,400
HKP-15C*	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKP-20C*	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500

¹ Minimum Circuit Ampacity @ 240 V
² Maximum Overcurrent Protection device @ 240 V
* Revision level that may or may not be designated
C Circuit Breaker option

MODEL AND HEAT KIT USAGE	MCA ¹ @ 208 / 240V	MOP ² (AMPS) @ 208 / 240V	ACTUAL kW & BTU @ 240V	RECOMMENDED AIRFLOW RANGE
GPH1660M41* *	42	60	---	---
EHK1-10	82 / 94	90 / 110	10	1750-2250 CFM
EHK1-15	104 / 120	110 / 125	15	1750-2250 CFM
EHK1-20	127 / 146	150 / 150	20	1850-2250 CFM

¹ Minimum Circuit Ampacity
² Maximum Overcurrent Protection Device

KW CORRECTION FACTORS

kW CORRECTION FACTOR FOR 1- & 3-PHASE UNITS					
SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1	0.93	0.82	0.78	0.76

Multiply rated kW by correction factor to get actual kW

MINIMUM AIRFLOW FOR ELECTRIC HEAT

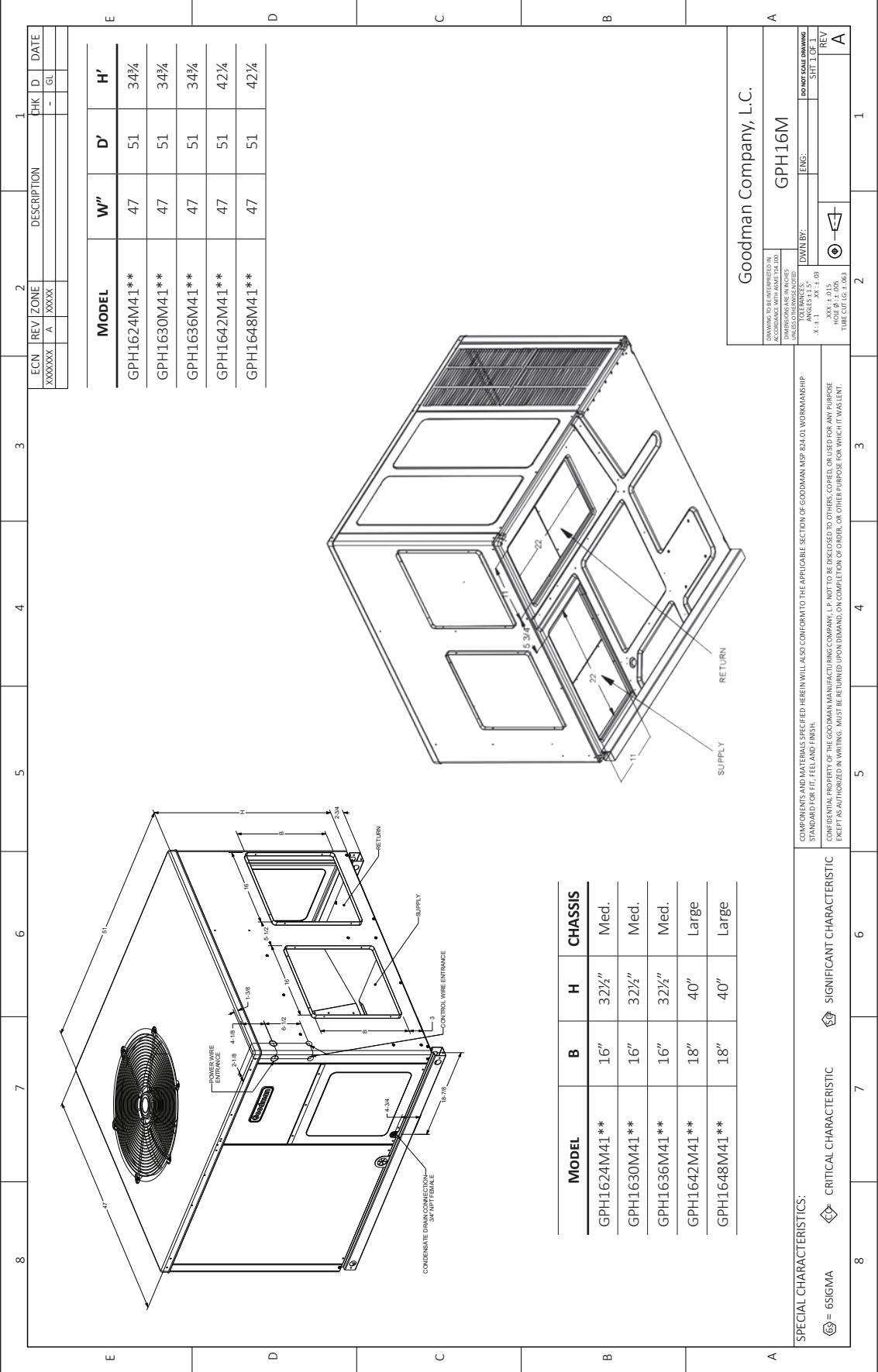
HEATER SIZE	MINIMUM CFM
10 kW	1,250
15 kW	1,400
20 kW	1,850

DIPSWITCH SETTINGS

MODEL	SWITCH 1	SWITCH 2	ELECTRIC HEAT CFM	SPEED TAP
GPH1624M41**	Off	Off	1,050	A
	On	Off	950	B
	Off	On	825	C
	On	On	700	D
GPH1630M41**	Off	Off	1,250	A
	On	Off	1,100	B
	Off	On	1,000	C
	On	On	800	D
GPH1636M41**	Off	Off	1,250	A
	On	Off	1,100	B
	Off	On	1,000	C
	On	On	800	D
GPH1642M41**	Off	Off	1,800	A
	On	Off	1,700	B
	Off	On	1,400	C
	On	On	1,225	D
GPH1648M41**	Off	Off	1,800	A
	On	Off	1,700	B
	Off	On	1,400	C
	On	On	1,225	D
GPH1660M41**	Off	Off	1,680	A
	On	Off	1,500	B
	Off	On	1,310	C
	On	On	1,160	D

SWITCH 5	SWITCH 6	COOLING/HP CFM	SPEED TAP
Off	Off	1,050	A
On	Off	950	B
Off	On	825	C
On	On	700	D
Off	Off	1,250	A
On	Off	1,100	B
Off	On	1,000	C
On	On	800	D
Off	Off	1,250	A
On	Off	1,100	B
Off	On	1,000	C
On	On	800	D
Off	Off	1,800	A
On	Off	1,700	B
Off	On	1,400	C
On	On	1,225	D
Off	Off	1,800	A
On	Off	1,700	B
Off	On	1,400	C
On	On	1,225	D
Off	Off	1,680	A
On	Off	1,500	B
Off	On	1,310	C
On	On	1,160	D

Low-stage cool will be 70% of high-stage cool.



ECN	REV	ZONE	DESCRIPTION	CHK	ID	DATE
XXXXXX	A	XXXX		-	GL	

MODEL	W"	D'	H'
GPH1624M41**	47	51	34 3/4
GPH1630M41**	47	51	34 3/4
GPH1636M41**	47	51	34 3/4
GPH1642M41**	47	51	42 1/4
GPH1648M41**	47	51	42 1/4

MODEL	B	H	CHASSIS
GPH1624M41**	16"	32 1/2"	Med.
GPH1630M41**	16"	32 1/2"	Med.
GPH1636M41**	16"	32 1/2"	Med.
GPH1642M41**	18"	40"	Large
GPH1648M41**	18"	40"	Large

Goodman Company, L.C.

GPH16M

DRAWING TO BE INTERFERED IN ACCORDANCE WITH ASME Y14.100 DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES: X.X.X .1 .XX.X .3 .XXX .4 .015 HOLE Ø ± .005 TUBE CUT TO ± .003

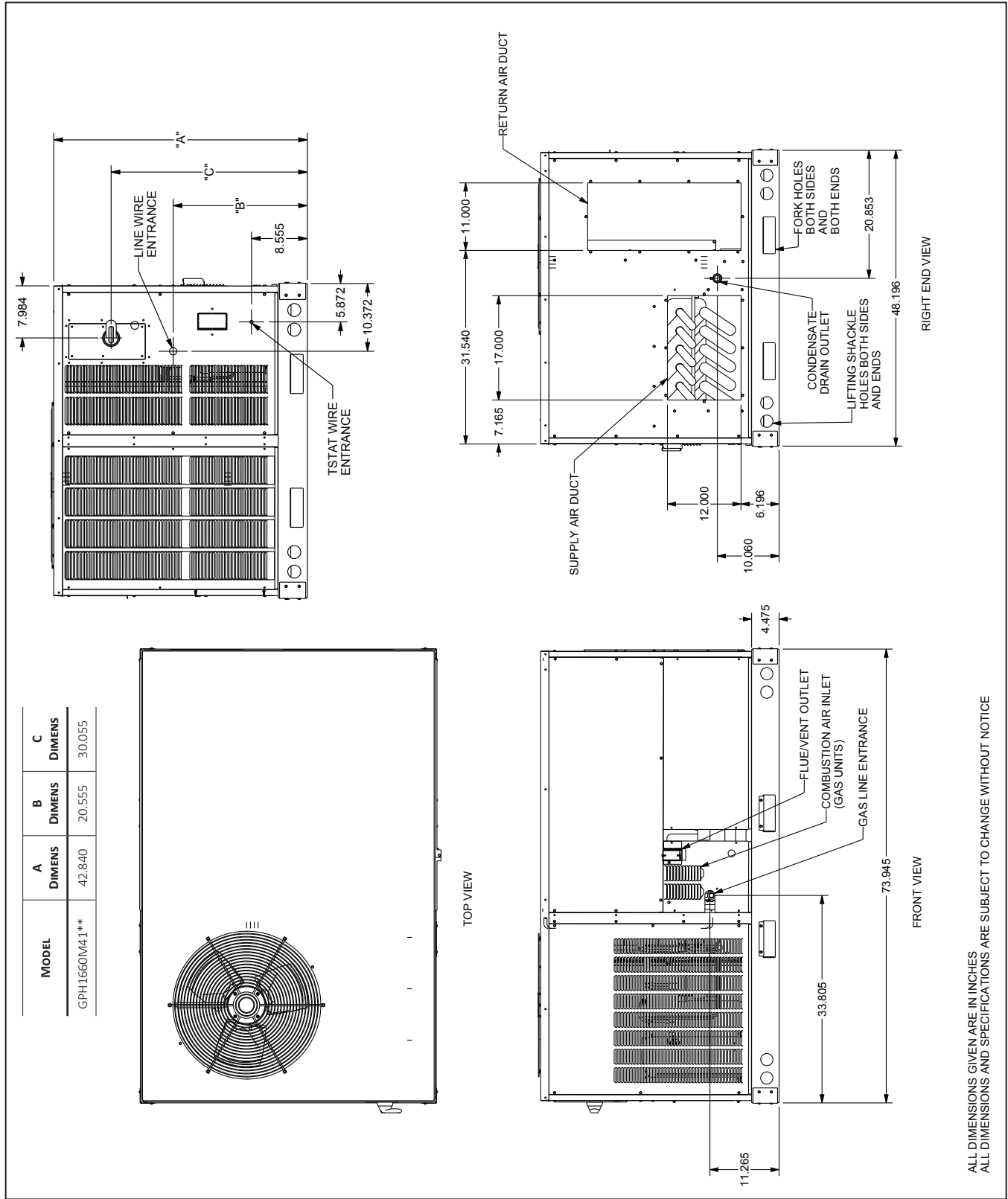
DOWN BY: ENG:

DO NOT SCALE DRAWING SHEET 1 OF 1 REV A

SPECIAL CHARACTERISTICS:

- = SIGMA
- = SIGNIFICANT CHARACTERISTIC

COMPONENTS AND MATERIALS SPECIFIED HEREIN WILL ALSO CONFORM TO THE APPLICABLE SECTION OF GOODMAN MSP B24.01 WORKMANSHIP STANDARD FOR FIT, FEEL AND FINISH.
 CONFIDENTIAL PROPERTY OF THE GOODMAN MANUFACTURING COMPANY, L.P. NOT TO BE DISCLOSED TO OTHERS, COPIED, OR USED FOR ANY PURPOSE EXCEPT AS AUTHORIZED IN WRITING. MUST BE RETURNED UPON DEMAND, ON COMPLETION OF ORDER, OR OTHER PURPOSE FOR WHICH IT WAS LENT.



ALL DIMENSIONS GIVEN ARE IN INCHES
 ALL DIMENSIONS AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Provisions for forks have been included in the unit base frame. No other fork locations are approved.

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60”.
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from fork lift damage. To remove the struts, extract the sheet metal retainers and pull the struts through the base of the unit. Refer to rigging label on the unit.

Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Duct-work dimensions are shown in Roof Curb Installation Instructions Manual.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end.

Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, take care to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

To assist in determining rigging requirements, unit weights are shown on the following page.

Curb installations must comply with local codes and should follow the established guidelines of the National Roofing Contractors Association.

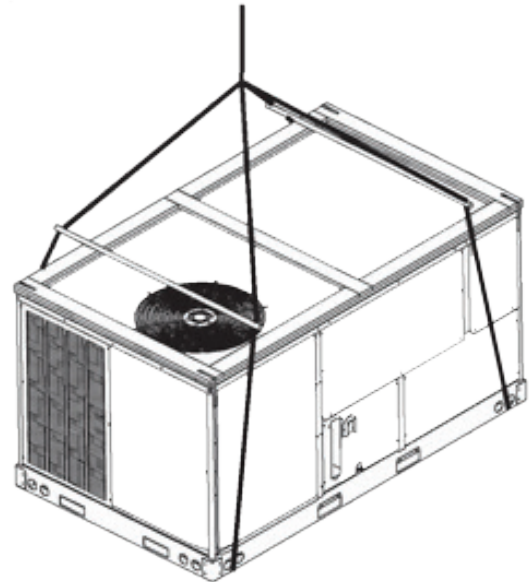
Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

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

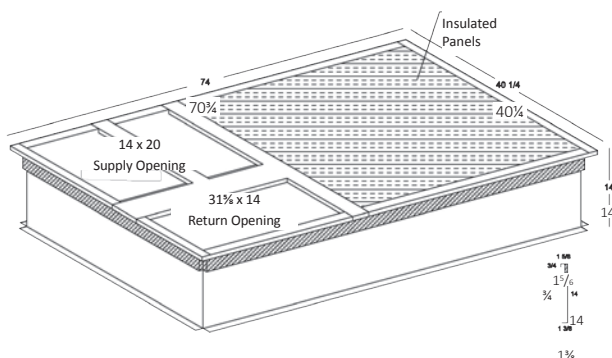
- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered-type curbs are not available from the factory.
- Contractor furnishes curb insulation, cant strips, flashing, and general roofing material.
- Support curbs on parallel sides with roof members. To prevent damage to the unit, the roof members cannot penetrate supply and return duct openings.

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

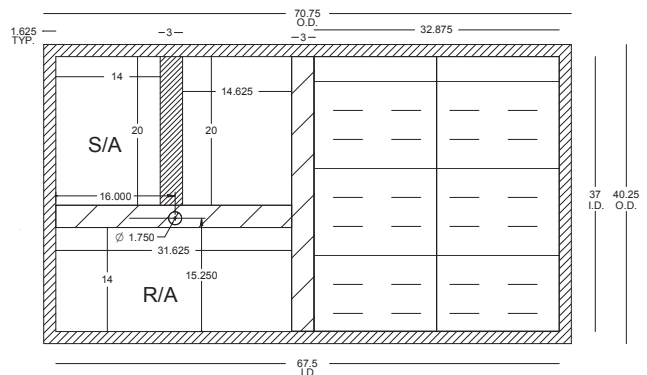
See the manual shipped with the roof curb for assembly and installation instructions.



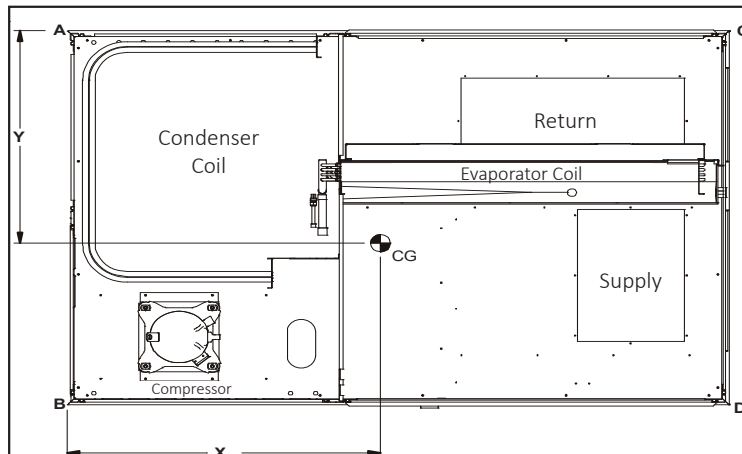
3-D VIEW



TOP VIEW



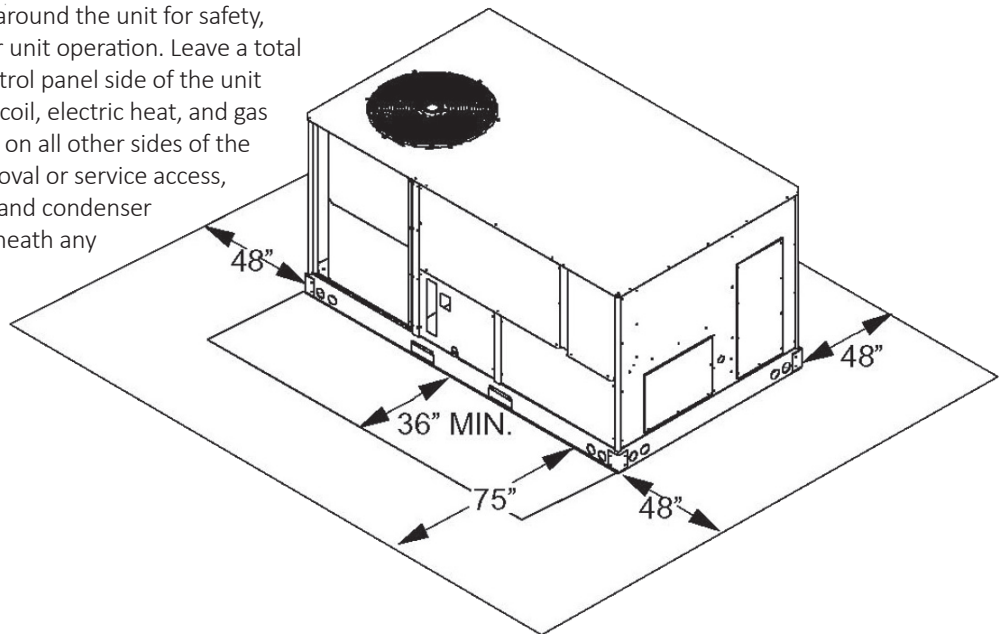
CORNER & CENTER-OF-GRAVITY LOCATIONS

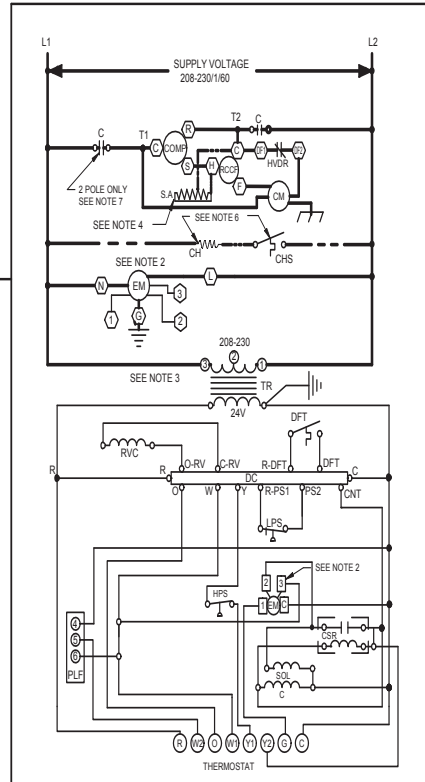
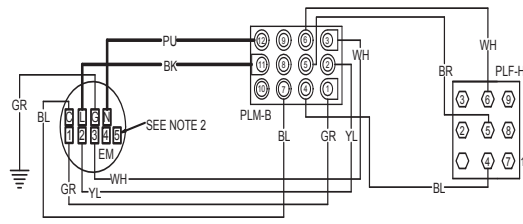
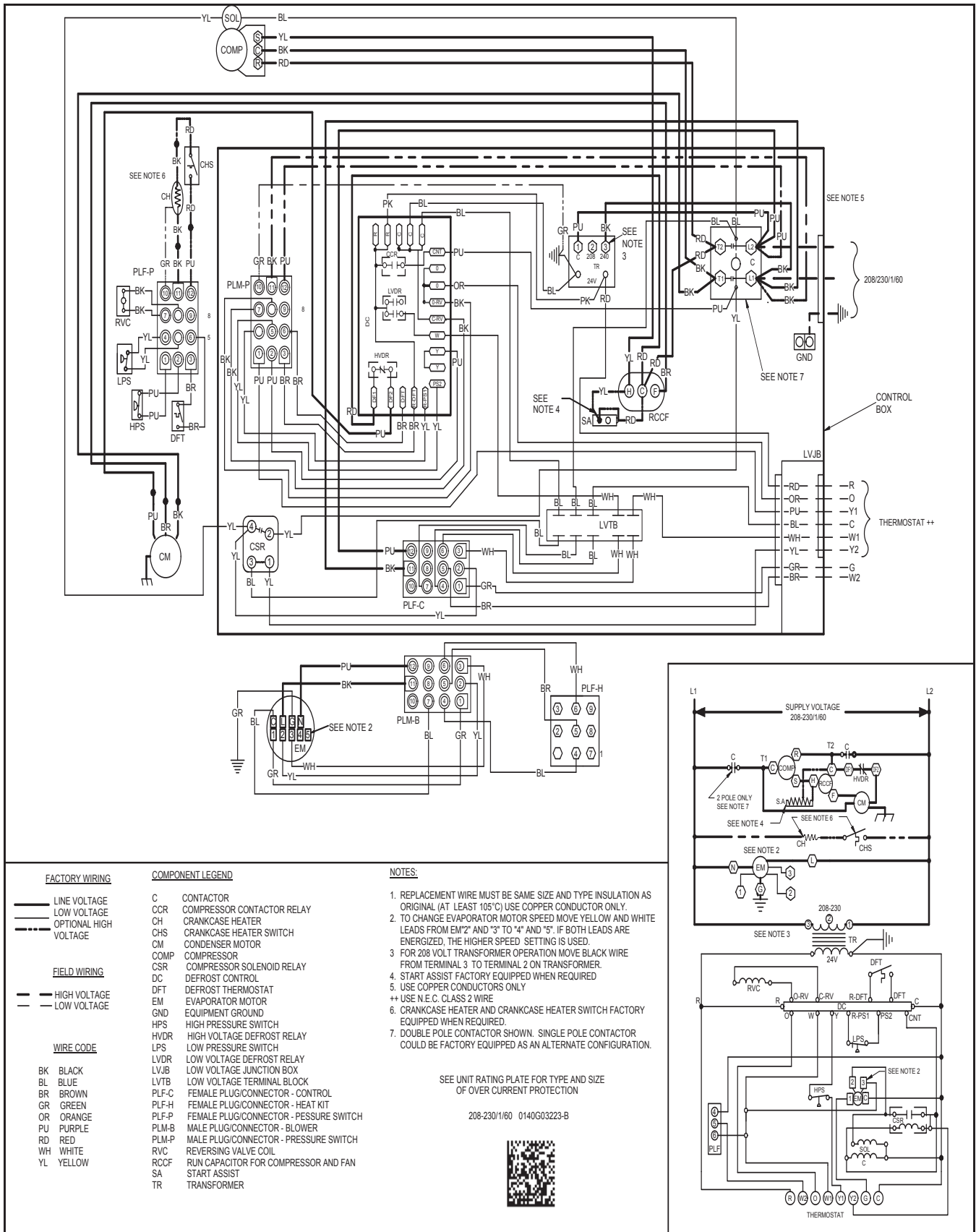


MODEL	X (IN)	Y (IN)	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	CORNER WEIGHTS (LBS.)			
					A	B	C	D
GPH1660M41**	40.0	25.1	612	583	204	113	72	194

UNIT CLEARANCES

Maintain an adequate clearance around the unit for safety, service, maintenance, and proper unit operation. Leave a total clearance of 75" on the main control panel side of the unit for possible removal of fan shaft, coil, electric heat, and gas furnace. Leave a clearance of 48" on all other sides of the unit for possible compressor removal or service access, and to ensure proper ventilation and condenser airflow. Do not install the unit beneath any obstruction. Install the unit away from all building exhausts to inhibit ingestion of exhaust air into the unit's fresh-air intake.





FACTORY WIRING

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

FIELD WIRING

- HIGH VOLTAGE
- - - LOW VOLTAGE

WIRE CODE

- BK BLACK
- BL BLUE
- BR BROWN
- GR GREEN
- OR ORANGE
- PU PURPLE
- RD RED
- WH WHITE
- YL YELLOW

COMPONENT LEGEND

- C CONTACTOR
- CCR COMPRESSOR CONTACTOR RELAY
- CH CRANKCASE HEATER
- CHS CRANKCASE HEATER SWITCH
- CM CONDENSER MOTOR
- COMP COMPRESSOR
- CSR COMPRESSOR SOLENOID RELAY
- DC DEFROST CONTROL
- DFT DEFROST THERMOSTAT
- EM EVAPORATOR MOTOR
- GND EQUIPMENT GROUND
- HPS HIGH PRESSURE SWITCH
- HVDR HIGH VOLTAGE DEFROST RELAY
- LPS LOW PRESSURE SWITCH
- LVDR LOW VOLTAGE DEFROST RELAY
- LVJB LOW VOLTAGE JUNCTION BOX
- LVTB LOW VOLTAGE TERMINAL BLOCK
- PLF-C FEMALE PLUG/CONNECTOR - CONTROL
- PLF-H FEMALE PLUG/CONNECTOR - HEAT KIT
- PLF-P FEMALE PLUG/CONNECTOR - PEASURE SWITCH
- PLM-B MALE PLUG/CONNECTOR - BLOWER
- PLM-P MALE PLUG/CONNECTOR - PEASURE SWITCH
- RVC REVERSING VALVE COIL
- RCCF RUN CAPACITOR FOR COMPRESSOR AND FAN
- SA START ASSIST
- TR TRANSFORMER

NOTES:

1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE YELLOW AND WHITE LEADS FROM EM*2 AND *3 TO *4 AND *5. IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
4. START ASSIST FACTORY EQUIPPED WHEN REQUIRED
5. USE COPPER CONDUCTORS ONLY
- ++ USE N.E.C. CLASS 2 WIRE
6. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
7. DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.

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

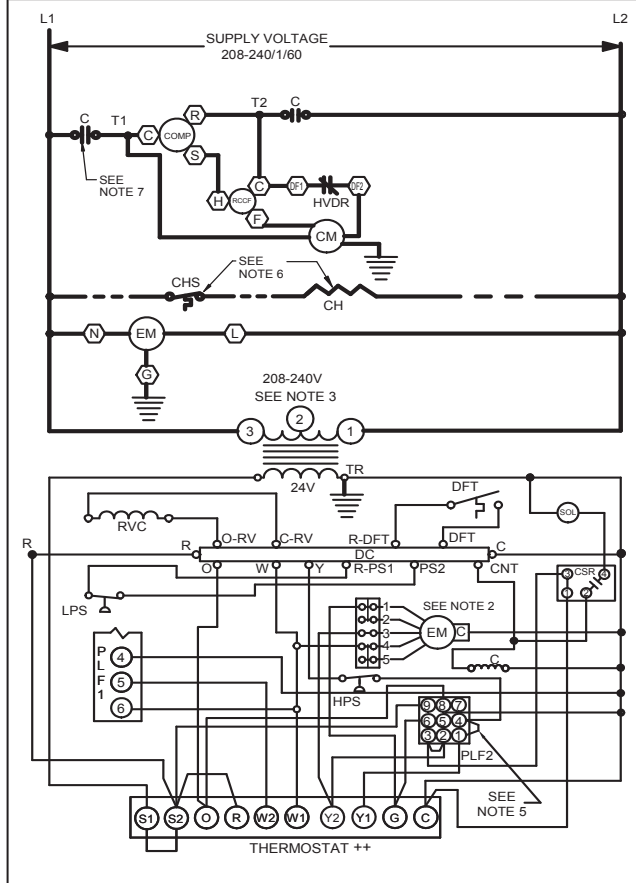
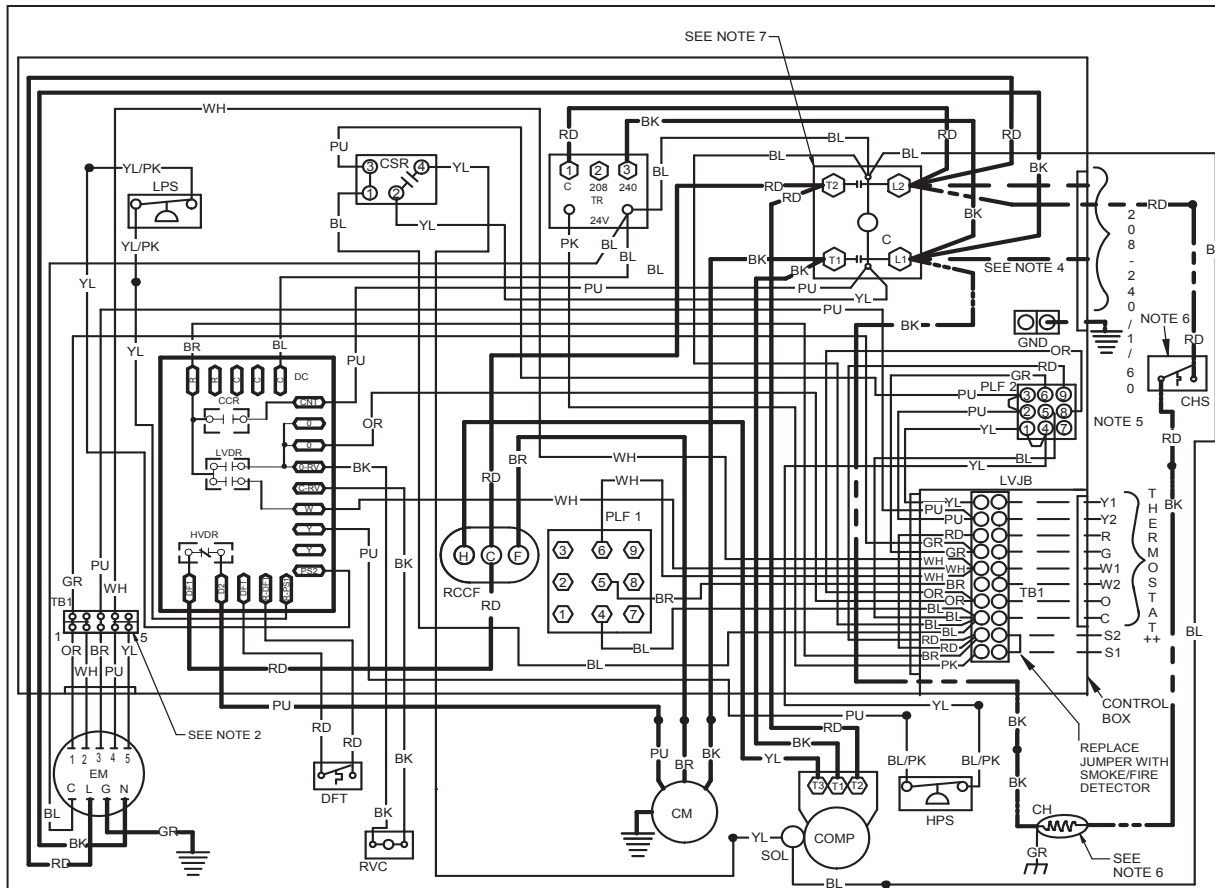
208-230/160 0140G03223-B



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.



COMPONENT LEGEND

- C CONTACTOR
- CCR COMPRESSOR CONTACTOR RELAY
- CH CRANKCASE HEATER
- CHS CRANKCASE HEATER SWITCH
- CM CONDENSER MOTOR
- COMP COMPRESSOR
- DC DEFROST CONTROL
- DFT DEFROST THERMOSTAT
- ECON ECONOMIZER
- EM EVAPORATOR MOTOR
- GND EQUIPMENT GROUND
- HPS HIGH PRESSURE SWITCH
- HVDR LOW VOLTAGE DEFROST RELAY
- LPS LOW PRESSURE SWITCH
- LVDR LOW VOLTAGE DEFROST RELAY
- LVJB LOW VOLTAGE JUNCTION BOX
- PLF FEMALE PLUG / CONNECTOR
- RVC REVERSING VALVE COIL
- RCCF RUN CAPACITOR FOR COMPRESSOR AND FAN
- TB1 TERMINAL BLOCK (24V SIGNAL)
- TR TRANSFORMER

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 MOVE WHITE AND YELLOW LEADS FROM "3" AND "4" TO "4" AND "5". IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
- FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
- USE COPPER CONDUCTORS ONLY.
- USE N.E.C. CLASS 2 WIRE.
- ECONOMIZER PLUG LOCATED IN THE RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH FEMALE PLUG TO ECONOMIZER ACCESSORY.
- CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
- DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.

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

JUNCTION	EQUIPMENT GROUND
TERMINAL	FIELD GROUND
INTERNAL TO INTEGRATED CONTROL	FIELD SPLICE
PLUG CONNECTION	SWITCH (TEMP)
SWITCH (PRESS.)	SWITCH (TEMP)
OVERCURRENT PROT. DEVICE	IGNITER

FACTORY WIRING

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

FIELD WIRING

- - - HIGH VOLTAGE
- - - LOW VOLTAGE

WIRE CODE

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

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

208-240/1/60 0140G04447-B

WARNING

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

FOR THE GPH1624-48M1 UNITS**

ACCESSORY DESCRIPTION	ITEM NUMBER	
	MEDIUM CHASSIS	LARGE CHASSIS
Concentric Kit	CDK36	CDK4872
Downflow Economizer	GPJMED102	GPJMED103
Downflow Internal Filter Rack	GPH13MFR102	GPH13MFR103
Downflow Manual Damper	PGMDD102	PGMDD103
Downflow Motorized Damper	PGMDMD102	PGMDMD103
Downflow Square to Round	SQRPG102	SQRPG103
External Horizontal Filter Rack	GPGHFR102	GPGHFR103
Horizontal Duct Cover	20464501PDGK	20464502PDGK
Horizontal Economizer	DHZECNJPGCHM	DHZECNJPGCHL
Horizontal manual Damper	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH102	PGMDMH103
Horizontal Square to Round	SQRPGH102	SQRPGH103
Outdoor Thermostat & Emergency Heat Relay Kit	OT/EHR18-60	OT/EHR18-60
Outdoor Thermostat Kit w/ Lockout Stat	OT18-60A	OT18-60A
Roof Curb	PGC102	PGC103

FOR THE GPH1660M1 UNITS**

DAIKIN MASTER ITEM #	DESCRIPTION
14CURB3672	14" Roof Curb
D25FD3672	25% Manual Fresh Air Damper
D25MFD3672	25% Motorized Fresh Air Damper
CDK4872	Concentric Duct Kit
DDNECNJ3672B	Low-leak Downflow Economizer
DDNECNJ3672NR	Downflow Economizer w/o Barometric Relief
DDNSQRD487218	Downflow Square-to-Round Adapter (18" Round)
DHZECNJ3672	Horizontal Economizer
GHRC-1	Hurricane Restraint Clips
DBRD3672	Barometric Relief Damper
LAKT01	Low-Ambient Kit

SINGLE-POINT KIT ACCESSORY KITS

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

MODEL	SINGLE-POINT KIT
GPH1624M41**	SPK-30
GPH1630M41**	SPK-35
GPH1636M41**	SPK-40
GPH1642M41**	SPK-45
GPH1648M41**	SPK-50
GPH1660M41**	SPKT01/02

