Goodman®

Air Conditioning & Heating

GPC14H

Packaged Air Conditioner
Up to 13.1 EER
3 & 4 Tons

Cooling Capacity:
36,000 - 46,000 BTU/h

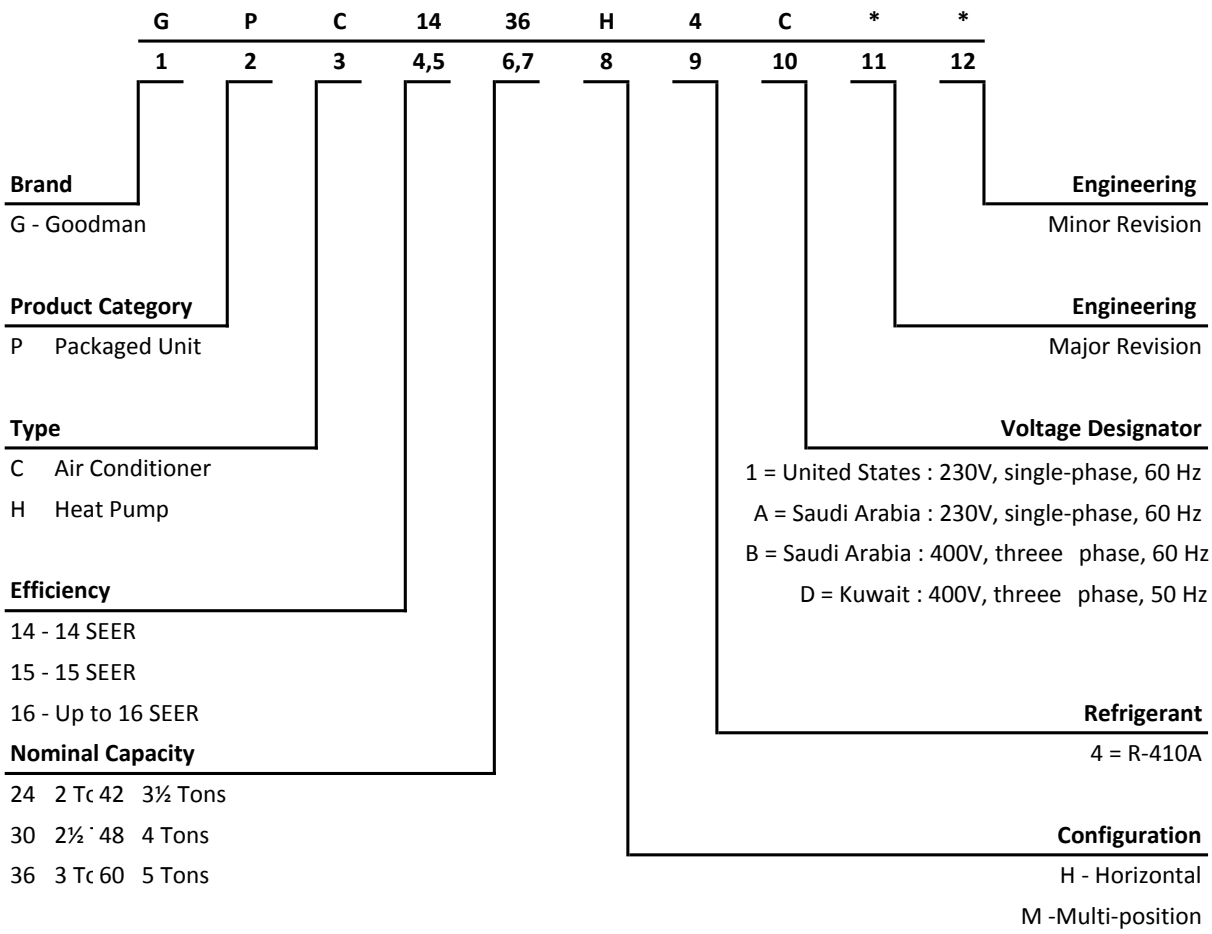
Contents

Standard Features

- Energy-efficient compressor with internal relief valve
- EEM blower motor
- Quiet horizontal discharge
- All-aluminum evaporator coil
- Copper tube / Ultra-gold-coated aluminum fin condenser coil
- Totally enclosed, permanently lubricated condenser fan motor
- Fully charged system

Cabinet Features

- Heavy-gauge galvanized-steel cabinet with attractive Nickel Gray powder-paint finish
- Fully insulated blower compartment has convenient access panels
- Louvered condenser coil protection
- One footprint; three heights



Note: Arabic labels and installation manuals are provided for the models ending with A, B, C, & D.

MODELS	GPC14 36H4D**	GPC14 48H4D**
COOLING CAPACITY		
Cooling Capacity (BTU/h)	39,000 / 31,000	46,000 / 35,000
Sensible BTU/h	29,000 / 24,000	37,000 / 28,500
EER	12.9 / 7.9	13.1 / 7.9
Decibels	80	80
EVAPORATOR MOTOR		
Type	EEM	EEM
Wheel (D x W)	10 x 8	10 x 8
Cooling CFM	1,200	1,600
Fan-Only CFM	1,100	1,400
RLA	2.0	3.2
No. of Speeds	5	5
Horsepower- RPM	1- 1050	¾- 1050
EVAPORATOR COIL		
Face Area (ft^2)	5.25	6.2
Rows Deep/ Fins per Inch	4 / 14	4 / 14
Indoor Orifice Size	0.068	0.078
Filter Size (")	(2) 20 x 20 x 1	(2) 20 x 25 x 1
Drain Size (NPT)	¾"	¾"
Refrigerant Charge (oz.)	104	103
CONDENSER FAN / COIL		
Horsepower- RPM	¼- 1075	¼- 1075
RLA/LRA	0.8/1.7	1.0 / 2.6
Fan Diameter/ # Fan Blades	22 / 4	22 / 4
Face Area (ft^2)	12.4	15.2
Rows Deep/ Fins per Inch	2 / 27	2 / 27
COMPRESSOR		
Quantity / Type	1 / Scroll	1 / Scroll
Stage	Single	Single
Compressor RLA/LRA	6.0 / 43	6.2/52
ELECTRICAL DATA		
Voltage-Phase (50 Hz)	400-3	400-3
Indoor Blower FLA	2.0	3.2
Outdoor Fan RLA	1.7	1
Total Unit Amps	8.8	10.4
Min. Circuit Ampacity[1]	10.3	11.9
Max. Overcurrent Protection (amps)[2]	15	15
SHIP WEIGHT (LBS)	350	370
OPERATING WEIGHT (LBS)	355	375

[1] Wire size should be determined in accordance with local 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.

			OUTDOOR AMBIENT TEMPERATURE																							
			65				75				85				95				105				115			
			ENTERING INDOOR WET BULB TEMPERATURE																							
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	1338	MBh	38.6	40.0	43.9	-	37.7	39.1	42.8	-	36.8	38.2	41.8	-	35.9	37.2	40.8	-	34.1	35.4	38.8	-	31.6	32.8	35.9	-
		S/T	1.00	0.83	0.58	-	1.00	0.86	0.60	-	1.00	0.89	0.61	-	1.00	0.91	0.63	-	1.00	0.95	0.66	-	1.00	0.96	0.66	-
		ΔT	26	23	17	-	26	23	18	-	25	23	18	-	25	23	18	-	23	23	18	-	22	22	16	-
		kW	2.31	2.36	2.45	-	2.51	2.57	2.65	-	2.68	2.74	2.84	-	2.83	2.90	3.00	-	2.96	3.03	3.14	-	3.07	3.15	3.26	-
		Amps	4.8	4.9	5.0	-	5.1	5.2	5.4	-	5.5	5.6	5.7	-	5.8	5.9	6.1	-	6.1	6.2	6.4	-	6.4	6.6	6.7	-
		HI PR	239	257	272	-	268	289	305	-	305	328	347	-	348	374	395	-	391	421	444	-	432	465	491	-
		LO PR	110	117	128	-	116	124	135	-	121	129	141	-	127	135	148	-	133	142	155	-	138	147	160	-
	1189	MBh	37.5	38.9	42.6	-	36.6	38.0	41.6	-	35.8	37.1	40.6	-	34.9	36.2	39.6	-	33.1	34.4	37.6	-	30.7	31.8	34.9	-
		S/T	0.95	0.79	0.55	-	0.99	0.82	0.57	-	1.00	0.84	0.58	-	1.00	0.87	0.60	-	1.00	0.90	0.63	-	1.00	0.91	0.63	-
		ΔT	28	24	18	-	28	24	18	-	28	24	18	-	27	24	18	-	26	24	18	-	24	22	17	-
		kW	2.29	2.34	2.42	-	2.48	2.54	2.63	-	2.66	2.72	2.81	-	2.81	2.87	2.98	-	2.93	3.00	3.11	-	3.05	3.12	3.23	-
		Amps	4.8	4.9	5.0	-	5.1	5.2	5.3	-	5.4	5.5	5.7	-	5.7	5.9	6.0	-	6.1	6.2	6.4	-	6.4	6.5	6.7	-
		HI PR	237	255	269	-	266	286	302	-	302	325	343	-	344	370	391	-	387	417	440	-	428	460	486	-
		LO PR	109	116	127	-	115	123	134	-	120	128	139	-	126	134	146	-	132	140	153	-	136	145	158	-
	951	MBh	34.6	35.9	39.3	-	33.8	35.0	38.4	-	33.0	34.2	37.5	-	32.2	33.4	36.6	-	30.6	31.7	34.7	-	28.3	29.4	32.2	-
		S/T	0.92	0.77	0.53	-	0.95	0.79	0.55	-	0.97	0.81	0.56	-	1.00	0.84	0.58	-	1.00	0.87	0.60	-	1.00	0.88	0.61	-
		ΔT	31	27	20	-	31	27	20	-	31	27	20	-	31	27	21	-	30	27	20	-	27	25	19	-
		kW	2.23	2.28	2.36	-	2.42	2.47	2.56	-	2.58	2.65	2.74	-	2.73	2.80	2.89	-	2.86	2.92	3.03	-	2.96	3.03	3.14	-
		Amps	4.7	4.7	4.9	-	5.0	5.1	5.2	-	5.3	5.4	5.6	-	5.6	5.7	5.9	-	5.9	6.0	6.2	-	6.2	6.3	6.5	-
		HI PR	230	247	261	-	258	277	293	-	293	315	333	-	334	359	379	-	376	404	427	-	415	447	472	-
		LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	132	141	154	-
75	1338	MBh	39.3	40.4	43.8	47.0	38.4	39.5	42.8	45.9	37.5	38.6	41.7	44.8	36.5	37.6	40.7	43.7	34.7	35.7	38.7	41.5	32.2	33.1	35.8	38.5
		S/T	1.00	1.00	0.77	0.5	1.00	1.00	0.80	0.5	1.00	1.00	0.82	0.5	1.00	1.00	0.84	0.5	1.00	1.00	0.87	0.6	1.00	1.00	0.88	0.6
		ΔT	27	28	23	16	26	27	23	16	26	27	23	16	25	26	24	16	24	25	23	16	22	23	22	15.0
		kW	2.33	2.39	2.47	2.6	2.53	2.59	2.68	2.8	2.70	2.77	2.87	3.0	2.86	2.93	3.03	3.1	2.99	3.06	3.17	3.3	3.10	3.18	3.29	3.4
		Amps	4.8	4.9	5.1	5.2	5.2	5.3	5.4	5.6	5.5	5.6	5.8	6.0	5.8	6.0	6.1	6.3	6.2	6.3	6.5	6.7	6.5	6.6	6.8	7.0
		HI PR	242	260	275	286.4	271	292	308	321.3	308	332	350	365.4	351	378	399	416.2	395	425	449	468.2	437	470	496	517.4
		LO PR	111	118	129	137.8	118	125	137	145.5	122	130	142	151.3	128	137	149	158.9	135	143	156	166.5	139	148	162	172.2
	1189	MBh	38.1	39.3	42.5	45.6	37.3	38.4	41.5	44.6	36.4	37.4	40.5	43.5	35.5	**36.5**	39.5	42.4	33.7	34.7	37.6	40.3	31.2	32.1	34.8	37.3
		S/T	1.00	0.97	0.73	0.5	1.00	1.00	0.76	0.5	1.00	1.00	0.78	0.5	1.00	**1.00**	0.80	0.5	1.00	1.00	0.83	0.5	1.00	1.00	0.84	0.5
		ΔT	29	29	24	17	29	30	24	17	28	29	24	17	27	**28**	25	17	26	27	24	17	24	25	23	15.6
		kW	2.31	2.36	2.45	2.5	2.51	2.57	2.66	2.8	2.68	2.74	2.84	2.9	2.83	**2.90**	3.00	3.1	2.96	3.03	3.14	3.3	3.07	3.15	3.26	3.4
		Amps	4.8	4.9	5.0	5.2	5.1	5.2	5.4	5.5	5.5	5.6	5.7	5.9	5.8	**5.9**	6.1	6.3	6.1	6.2	6.4	6.6	6.4	6.6	6.7	7.0
		HI PR	239	257	272	283.5	268	289	305	318.1	305	329	347	361.8	348	**374**	395	412.1	391	421	444	463.6	432	465	491	512.2
		LO PR	110	117	128	136.4	116	124	135	144.1	121	129	141	149.8	127	**135**	148	157.3	133	142	155	164.9	138	147	160	170.5
	951	MBh	35.2	36.2	39.2	42.1	34.4	35.4	38.3	41.1	33.6	34.6	37.4	40.1	32.7	33.7	36.5	39.2	31.1	32.0	34.7	37.2	28.8	29.7	32.1	34.5
		S/T	1.00	0.93	0.71	0.5	1.00	0.97	0.73	0.5	1.00	0.99	0.75	0.5	1.00	1.00	0.77	0.5	1.00	1.00	0.80	0.5	1.00	1.00	0.81	0.5
		ΔT	34	33	27	18	33	33	27	19	32	33	27	19	32	33	27	19	30	31	27	19	28	29	25	17.4
		kW	2.25	2.30	2.38	2.5	2.44	2.50	2.58	2.7	2.61	2.67	2.76	2.9	2.76	2.82	2.92	3.0	2.88	2.95	3.06	3.2	2.99	3.06	3.17	3.3
		Amps	4.7	4.8	4.9	5.1	5.0	5.1	5.2	5.4	5.4	5.5	5.6	5.8	5.7	5.8	5.9	6.1	6.0	6.1	6.3	6.5	6.3	6.4	6.6	6.8
		HI PR	232	250	264	275.0	260	280	296	308.6	296	319	336	351.0	337	363	383	399.7	379	408	431	449.7	419	451	476	496.9
		LO PR	107	114	124	132.3	113	120	131	139.8	117	125	136	145.3	123	131	143	152.6	129	138	150	159.9	134	142	155	165.4

IDB = Entering Indoor Dry Bulb Temperature

Shaded area reflects ACCA (TVA) conditions.

kW = total system power

High and low pressures are measured at the liquid and suction access fittings.

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

			OUTDOOR AMBIENT TEMPERATURE																							
			65				75				85				95				105				115			
			ENTERING INDOOR WET BULB TEMPERATURE																							
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
80	1338	MBh	40.0	40.9	43.6	46.7	39.1	39.9	42.6	45.6	38.1	39.0	41.6	44.5	37.2	38.0	40.6	43.4	35.3	36.1	38.6	41.2	32.7	33.4	35.7	38.2
		S/T	1.00	1.00	0.95	0.7	1.00	1.00	1.00	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8
		ΔT	27	28	28	23	27	27	29	23	26	27	29	23	26	26	28	23	24	25	27	23	22	23	25	21.4
		kW	2.35	2.41	2.49	2.6	2.55	2.61	2.70	2.8	2.73	2.79	2.89	3.0	2.88	2.95	3.06	3.2	3.02	3.09	3.20	3.3	3.13	3.21	3.32	3.4
		Amps	4.9	5.0	5.1	5.3	5.2	5.3	5.4	5.6	5.6	5.7	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.3	6.5	6.7	6.5	6.7	6.9	7.1
		HI PR	244	263	277	289.3	274	295	311	324.6	311	335	354	369.1	355	382	403	420.4	399	429	453	473.0	441	474	501	522.6
		LO PR	112	120	131	139.1	119	126	138	147.0	124	131	143	152.8	130	138	151	160.5	136	145	158	168.2	141	150	163	174.0
	1189	MBh	38.8	39.7	42.4	45.3	37.9	38.7	41.4	44.2	37.0	37.8	40.4	43.2	36.1	36.9	**39.4**	42.1	34.3	35.1	37.4	40.0	31.8	32.5	34.7	37.1
		S/T	1.00	1.00	0.91	0.7	1.00	1.00	0.94	0.7	1.00	1.00	0.96	0.7	1.00	1.00	**0.99**	0.7	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8
		ΔT	30	31	30	24	29	30	30	24	29	29	30	24	28	29	**30**	24	27	27	29	24	25	25	27	22.3
		kW	2.33	2.39	2.47	2.6	2.53	2.59	2.68	2.8	2.70	2.77	2.87	3.0	2.86	2.93	**3.03**	3.1	2.99	3.06	3.17	3.3	3.10	3.18	3.29	3.4
		Amps	4.8	4.9	5.1	5.2	5.2	5.3	5.4	5.6	5.5	5.6	5.8	6.0	5.8	6.0	**6.1**	6.3	6.2	6.3	6.5	6.7	6.5	6.6	6.8	7.0
		HI PR	242	260	275	286.4	271	292	308	321.4	308	332	350	365.5	351	378	**399**	416.3	395	425	449	468.3	437	470	496	517.4
		LO PR	111	118	129	137.8	118	125	137	145.6	122	130	142	151.3	128	137	**149**	158.9	135	143	156	166.5	139	148	162	172.2
	951	MBh	35.8	36.6	39.1	41.8	35.0	35.8	38.2	40.8	34.2	34.9	37.3	39.9	33.3	34.1	36.4	38.9	31.7	32.4	34.6	37.0	29.3	30.0	32.0	34.2
		S/T	1.00	1.07	0.87	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.93	0.7	1.00	1.00	0.96	0.7	1.00	1.00	0.99	0.7	1.00	1.00	1.00	0.7
		ΔT	35	38	33	26	34	35	33	27	33	34	33	27	32	33	34	27	31	31	33	27	28	29	31	24.8
		kW	2.27	2.32	2.40	2.5	2.46	2.52	2.61	2.7	2.63	2.69	2.79	2.9	2.78	2.85	2.95	3.1	2.91	2.98	3.08	3.2	3.02	3.09	3.20	3.3
		Amps	4.7	4.8	4.9	5.1	5.0	5.1	5.3	5.4	5.4	5.5	5.7	5.8	5.7	5.8	6.0	6.2	6.0	6.1	6.3	6.5	6.3	6.5	6.6	6.9
		HI PR	234	252	266	277.8	263	283	299	311.7	299	322	340	354.5	341	367	387	403.8	383	412	436	454.2	423	456	481	501.9
		LO PR	108	115	125	133.6	114	121	133	141.2	119	126	138	146.7	125	133	145	154.1	131	139	152	161.5	135	144	157	167.1
85	1338	MBh	40.7	41.5	43.4	46.3	39.7	40.5	42.4	45.3	38.8	39.5	41.4	44.2	37.8	38.6	40.4	43.1	35.9	36.6	38.4	40.9	33.3	33.9	35.6	37.9
		S/T	1.00	1.00	1.00	0.9	1.00	1.00	1.00	1.0	1.00	1.00	1.00	1.0	1.00	1.00	1.00	1.0	1.00	1.00	1.00	1.0	1.00	1.00	1.00	1.0
		ΔT	28	29	30	29	27	28	29	30	27	27	28	30	26	27	28	30	25	25	26	28	23	23	24	26.1
		kW	2.37	2.43	2.51	2.6	2.57	2.63	2.73	2.8	2.75	2.82	2.92	3.0	2.91	2.98	3.09	3.2	3.04	3.12	3.23	3.3	3.16	3.23	3.35	3.5
		Amps	4.9	5.0	5.1	5.3	5.2	5.3	5.5	5.7	5.6	5.7	5.9	6.1	5.9	6.1	6.2	6.4	6.3	6.4	6.6	6.8	6.6	6.7	6.9	7.1
		HI PR	246	265	280	292.1	277	298	314	327.8	315	339	357	372.8	358	386	407	424.6	403	434	458	477.7	445	479	506	527.8
		LO PR	114	121	132	140.5	120	128	139	148.5	125	133	145	154.3	131	139	152	162.1	137	146	160	169.9	142	151	165	175.7
	1189	MBh	39.5	40.3	42.2	45.0	38.6	39.3	41.2	43.9	37.7	38.4	40.2	42.9	36.7	37.5	39.2	41.8	34.9	35.6	37.3	39.8	32.3	33.0	34.5	36.8
		S/T	1.00	1.00	1.00	0.9	1.00	1.00	1.00	0.9	1.00	1.00	1.00	0.9	1.00	1.00	1.00	1.0	1.00	1.00	1.00	1.0	1.00	1.00	1.00	1.0
		ΔT	31	31	33	31	30	30	32	31	29	30	31	31	28	29	30	31	27	28	29	31	25	25	27	28.5
		kW	2.35	2.41	2.49	2.6	2.55	2.61	2.70	2.8	2.73	2.79	2.89	3.0	2.88	2.95	3.06	3.2	3.02	3.09	3.20	3.3	3.13	3.21	3.32	3.4
		Amps	4.9	5.0	5.1	5.3	5.2	5.3	5.4	5.6	5.6	5.7	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.3	6.5	6.7	6.5	6.7	6.9	7.1
		HI PR	244	263	277	289.3	274	295	311	324.6	311	335	354	369.1	355	382	403	420.4	399	429	453	473.0	441	474	501	522.6
		LO PR	112	120	131	139.1	119	126	138	147.0	124	131	143	152.8	130	138	151	160.5	136	145	158	168.2	141	150	163	174.0
	951	MBh	36.5	37.2	38.9	41.5	35.6	36.3	38.0	40.6	34.8	35.4	37.1	39.6	33.9	34.6	36.2	38.6	32.2	32.8	34.4	36.7	29.8	30.4	31.9	34.0
		S/T	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.9	1.00	1.00	1.00	0.9	1.00	1.00	1.00	0.9	1.00	1.00	1.00	1.0	1.00	1.00	1.00	1.0
		ΔT	35	36	38	34	34	35	37	34	34	34	36	34	33	33	35	35	31	32	33	34	29	29	31	31.9
		kW	2.29	2.34	2.42	2.5	2.48	2.54	2.63	2.7	2.65	2.72	2.81	2.9	2.81	2.87	2.97	3.1	2.93	3.00	3.11	3.2	3.04	3.12	3.23	3.3
		Amps	4.8	4.9	5.0	5.1	5.1	5.2	5.3	5.5	5.4	5.5	5.7	5.9	5.7	5.9	6.0	6.2	6.1	6.2	6.4	6.6	6.4	6.5	6.7	6.9
		HI PR	237	255	269	280.6	266	286	302	314.8	302	325	343	358.1	344	370	391	407.8	387	417	440	458.8	428	460	486	506.9
		LO PR	109	116	127	135.0	115	123	134	142.6	120	127	139	148.2	126	134	146	155.7	132	140	153	163.1	136	145	158	168.7

IDB = Entering Indoor Dry Bulb Temperature

Shaded area reflects AHRI (TVA) conditions.

kW = total system power

High and low pressures are measured at the liquid and suction access fittings.

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

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
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	1927	MBh	44.9	46.5	51.0	-	43.9	45.5	49.8	-	42.8	44.4	48.6	-	41.8	43.3	47.4	-	39.7	41.1	45.1	-	36.8	38.1	41.7	-
		S/T	0.86	0.72	0.50	-	0.89	0.74	0.51	-	0.91	0.76	0.53	-	0.94	0.79	0.54	-	0.98	0.82	0.57	-	0.99	0.82	0.57	-
		ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		kW	2.73	2.78	2.87	-	2.93	2.99	3.08	-	3.10	3.17	3.27	-	3.26	3.33	3.43	-	3.39	3.46	3.57	-	3.50	3.58	3.69	-
		Amps	6.3	6.4	6.5	-	6.6	6.7	6.8	-	7.0	7.1	7.2	-	7.3	7.4	7.6	-	7.6	7.7	7.9	-	7.9	8.1	8.3	-
		HI PR	229	247	261	-	257	277	292	-	293	315	333	-	333	359	379	-	375	404	426	-	414	446	471	-
		LO PR	115	122	134	-	122	129	141	-	126	134	147	-	133	141	154	-	139	148	162	-	144	153	167	-
	1713	MBh	43.6	45.2	49.5	-	42.6	44.1	48.4	-	41.6	43.1	47.2	-	40.6	42.0	46.0	-	38.5	39.9	43.7	-	35.7	37.0	40.5	-
		S/T	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.87	0.73	0.50	-	0.90	0.75	0.52	-	0.93	0.78	0.54	-	0.94	0.78	0.54	-
		ΔT	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		kW	2.71	2.76	2.85	-	2.91	2.97	3.06	-	3.08	3.14	3.24	-	3.23	3.30	3.40	-	3.36	3.43	3.54	-	3.48	3.55	3.66	-
		Amps	6.2	6.3	6.5	-	6.6	6.7	6.8	-	6.9	7.0	7.2	-	7.2	7.4	7.5	-	7.6	7.7	7.9	-	7.9	8.0	8.2	-
		HI PR	227	244	258	-	255	274	290	-	290	312	329	-	330	355	375	-	371	400	422	-	410	441	466	-
		LO PR	114	121	132	-	120	128	140	-	125	133	145	-	131	140	153	-	138	147	160	-	143	152	166	-
	1370	MBh	40.2	41.7	45.7	-	39.3	40.7	44.6	-	38.4	39.8	43.6	-	37.4	38.8	42.5	-	35.6	36.9	40.4	-	32.9	34.1	37.4	-
		S/T	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.84	0.70	0.49	-	0.87	0.72	0.50	-	0.90	0.75	0.52	-	0.91	0.76	0.52	-
		ΔT	21	18	14	-	22	19	14	-	22	19	14	-	22	19	14	-	21	19	14	-	20	17	13	-
		kW	2.65	2.70	2.78	-	2.84	2.90	2.98	-	3.01	3.07	3.16	-	3.16	3.22	3.32	-	3.28	3.35	3.46	-	3.39	3.46	3.57	-
		Amps	6.1	6.2	6.4	-	6.4	6.5	6.7	-	6.8	6.9	7.1	-	7.1	7.2	7.4	-	7.4	7.5	7.7	-	7.7	7.9	8.0	-
		HI PR	220	237	250	-	247	266	281	-	281	302	319	-	320	345	364	-	360	388	409	-	398	428	452	-
		LO PR	111	118	128	-	117	124	136	-	121	129	141	-	128	136	148	-	134	142	155	-	138	147	161	-
75	1927	MBh	45.7	47.0	50.9	54.6	44.6	45.9	49.7	53.3	43.5	44.8	48.5	52.1	42.5	43.7	47.3	50.8	40.4	41.5	45.0	48.3	37.4	38.5	41.7	44.7
		S/T	0.98	0.87	0.66	0.4	1.00	0.90	0.68	0.4	1.00	0.93	0.70	0.5	1.00	0.96	0.72	0.5	1.00	0.99	0.75	0.5	1.00	1.00	0.76	0.5
		ΔT	21	20	16	11	21	20	16	11	21	20	16	11	20	20	16	11	19	20	16	11	18	18	15	10.4
		kW	2.75	2.81	2.89	3.0	2.95	3.01	3.10	3.2	3.13	3.19	3.29	3.4	3.28	3.35	3.46	3.6	3.42	3.49	3.60	3.7	3.53	3.61	3.72	3.8
		Amps	6.3	6.4	6.5	6.7	6.6	6.7	6.9	7.1	7.0	7.1	7.3	7.5	7.3	7.5	7.6	7.8	7.7	7.8	8.0	8.2	8.0	8.1	8.3	8.6
		HI PR	232	249	263	274.6	260	280	295	308.1	296	318	336	350.4	337	362	383	399.1	379	408	430	449.0	419	450	476	496.1
		LO PR	116	124	135	143.8	123	131	143	152.0	128	136	148	157.9	134	143	156	165.9	141	150	163	173.9	145	155	169	179.8
	1713	MBh	44.3	45.6	49.4	53.0	43.3	44.6	48.3	51.8	42.3	43.5	47.1	50.6	41.2	**42.5**	46.0	49.3	39.2	40.3	43.7	46.9	36.3	37.4	40.4	43.4
		S/T	0.93	0.83	0.63	0.4	0.96	0.86	0.65	0.4	0.99	0.88	0.67	0.4	1.00	**0.91**	0.69	0.4	1.00	0.95	0.72	0.5	1.00	0.96	0.72	0.5
		ΔT	22	20	17	12	22	21	17	12	22	21	17	12	22	**21**	17	12	21	21	17	12	19	19	16	10.8
		kW	2.73	2.78	2.87	3.0	2.93	2.99	3.08	3.2	3.10	3.17	3.27	3.4	3.26	**3.33**	3.43	3.5	3.39	3.46	3.57	3.7	3.50	3.58	3.69	3.8
		Amps	6.3	6.4	6.5	6.7	6.6	6.7	6.8	7.0	7.0	7.1	7.2	7.4	7.3	**7.4**	7.6	7.8	7.6	7.7	7.9	8.1	7.9	8.1	8.3	8.5
		HI PR	229	247	261	271.9	257	277	292	305.1	293	315	333	347.0	333	**359**	379	395.2	375	404	426	444.6	414	446	471	491.2
		LO PR	115	122	134	142.4	122	129	141	150.5	126	135	147	156.4	133	**141**	154	164.3	139	148	162	172.2	144	153	167	178.1
	1370	MBh	40.9	42.1	45.6	48.9	40.0	41.1	44.5	47.8	39.0	40.2	43.5	46.7	38.1	39.2	42.4	45.5	36.2	37.2	40.3	43.3	33.5	34.5	37.3	40.1
		S/T	0.90	0.80	0.61	0.4	0.93	0.83	0.63	0.4	0.95	0.85	0.65	0.4	0.98	0.88	0.67	0.4	1.00	0.91	0.69	0.4	1.00	0.92	0.70	0.4
		ΔT	25	23	19	13	25	23	19	13	25	23	19	13	25	23	19	13	24	23	19	13	22	21	17	12.1
		kW	2.67	2.72	2.80	2.9	2.86	2.92	3.01	3.1	3.03	3.09	3.19	3.3	3.18	3.25	3.35	3.5	3.31	3.38	3.49	3.6	3.42	3.49	3.60	3.7
		Amps	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.9	6.8	7.0	7.1	7.3	7.2	7.3	7.4	7.6	7.5	7.6	7.8	8.0	7.8	7.9	8.1	8.3
		HI PR	223	239	253	263.7	250	269	284	295.9	284	306	323	336.5	323	348	368	383.3	364	392	413	431.2	402	433	457	476.5
		LO PR	112	119	130	138.1	118	126	137	146.0	123	130	142	151.7	129	137	150	159.3	135	144	157	167.0	140	149	162	172.7

IDB = Entering Indoor Dry Bulb Temperature

Shaded area reflects ACCA (TVA) conditions.

kW = total system power

High and low pressures are measured at the liquid and suction access fittings.

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

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
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
80	1927	MBh	46.5	47.5	50.7	54.2	45.4	46.4	49.6	53.0	44.3	45.3	48.4	51.7	43.2	44.2	47.2	50.5	41.1	42.0	44.8	47.9	38.0	38.9	41.5	44.4
		S/T	1.00	1.00	0.82	0.6	1.00	1.00	0.85	0.6	1.00	1.00	0.87	0.6	1.00	1.00	0.90	0.7	1.00	1.00	0.93	0.7	1.00	1.00	0.94	0.7
		ΔT	22	23	20	16	22	22	20	16	21	22	20	16	21	21	20	16	20	20	20	16	18	19	19	14.8
		kW	2.77	2.83	2.91	3.0	2.97	3.04	3.13	3.2	3.15	3.22	3.32	3.4	3.31	3.38	3.49	3.6	3.45	3.52	3.63	3.7	3.56	3.64	3.75	3.9
		Amps	6.3	6.4	6.6	6.7	6.7	6.8	6.9	7.1	7.1	7.2	7.3	7.5	7.4	7.5	7.7	7.9	7.7	7.8	8.0	8.3	8.0	8.2	8.4	8.6
		HI PR	234	252	266	277.4	263	283	298	311.2	299	321	339	354.0	340	366	387	403.1	383	412	435	453.5	423	455	480	501.1
		LO PR	117	125	136	145.3	124	132	144	153.5	129	137	150	159.5	135	144	157	167.6	142	151	165	175.6	147	156	171	181.7
	1713	MBh	45.1	46.1	49.3	52.7	44.1	45.0	48.1	51.4	43.0	44.0	47.0	50.2	42.0	42.9	**45.8**	49.0	39.9	40.7	43.5	46.5	36.9	37.7	40.3	43.1
		S/T	1.00	0.96	0.78	0.6	1.00	0.99	0.81	0.6	1.00	1.00	0.83	0.6	1.00	1.00	**0.85**	0.6	1.00	1.00	0.89	0.7	1.00	1.00	0.89	0.7
		ΔT	24	24	21	16	24	24	21	17	23	24	21	17	23	23	**21**	17	21	22	21	17	20	20	19	15.5
		kW	2.75	2.81	2.89	3.0	2.95	3.01	3.10	3.2	3.13	3.19	3.29	3.4	3.28	3.35	**3.46**	3.6	3.42	3.49	3.60	3.7	3.53	3.61	3.72	3.8
		Amps	6.3	6.4	6.5	6.7	6.6	6.7	6.9	7.1	7.0	7.1	7.3	7.5	7.3	7.5	**7.6**	7.8	7.7	7.8	8.0	8.2	8.0	8.1	8.3	8.6
		HI PR	232	249	263	274.6	260	280	295	308.1	296	318	336	350.5	337	362	**383**	399.2	379	408	431	449.1	419	450	476	496.2
		LO PR	116	124	135	143.9	123	131	143	152.0	128	136	148	158.0	134	143	**156**	165.9	141	150	163	173.9	145	155	169	179.9
	1370	MBh	41.6	42.6	45.5	48.6	40.7	41.6	44.4	47.5	39.7	40.6	43.3	46.3	38.7	39.6	42.3	45.2	36.8	37.6	40.2	42.9	34.1	34.8	37.2	39.8
		S/T	0.98	0.92	0.75	0.6	1.02	0.96	0.78	0.6	1.05	0.98	0.80	0.6	1.08	1.01	0.82	0.6	1.00	1.05	0.85	0.6	1.00	1.06	0.86	0.6
		ΔT	27	26	23	18	28	27	23	19	28	27	23	19	28	27	23	19	25	27	23	18	23	25	22	17.2
		kW	2.69	2.74	2.82	2.9	2.88	2.94	3.03	3.1	3.06	3.12	3.21	3.3	3.21	3.27	3.38	3.5	3.34	3.41	3.51	3.6	3.45	3.52	3.63	3.8
		Amps	6.2	6.3	6.4	6.6	6.5	6.6	6.8	6.9	6.9	7.0	7.2	7.3	7.2	7.3	7.5	7.7	7.5	7.6	7.8	8.0	7.8	8.0	8.2	8.4
		HI PR	225	242	255	266.4	252	271	287	298.9	287	309	326	339.9	327	352	371	387.2	368	395	418	435.6	406	437	461	481.3
		LO PR	113	120	131	139.5	119	127	138	147.4	124	132	144	153.2	130	138	151	160.9	136	145	158	168.7	141	150	164	174.5
85	1927	MBh	47.3	48.2	50.5	53.9	46.2	47.1	49.3	52.6	45.1	46.0	48.1	51.4	44.0	44.8	47.0	50.1	41.8	42.6	44.6	47.6	38.7	39.5	41.3	44.1
		S/T	1.00	1.00	0.98	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.9	1.00	1.00	1.00	0.9	1.00	1.00	1.00	0.9
		ΔT	23	23	24	20	22	22	24	21	22	22	23	21	21	21	22	21	20	20	21	20	18	19	20	19.1
		kW	2.79	2.85	2.93	3.0	3.00	3.06	3.15	3.3	3.18	3.24	3.35	3.5	3.34	3.41	3.52	3.6	3.47	3.55	3.66	3.8	3.59	3.67	3.79	3.9
		Amps	6.4	6.5	6.6	6.8	6.7	6.8	7.0	7.1	7.1	7.2	7.4	7.6	7.4	7.6	7.7	7.9	7.8	7.9	8.1	8.3	8.1	8.2	8.4	8.7
		HI PR	236	254	269	280.1	265	285	301	314.3	302	325	343	357.5	344	370	390	407.2	386	416	439	458.1	427	460	485	506.1
		LO PR	119	126	138	146.8	125	133	146	155.0	130	139	151	161.1	137	146	159	169.3	143	153	167	177.4	148	158	172	183.5
	1713	MBh	45.9	46.8	49.0	52.3	44.8	45.7	47.9	51.1	43.8	44.6	46.7	49.9	42.7	43.5	45.6	48.6	40.6	41.4	43.3	46.2	37.6	38.3	40.1	42.8
		S/T	1.00	1.00	0.93	0.8	1.00	1.00	0.97	0.8	1.00	1.00	0.99	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.9	1.00	1.00	1.00	0.9
		ΔT	25	25	25	21	24	25	25	21	23	24	25	21	23	23	24	22	22	22	23	21	20	21	22	19.9
		kW	2.77	2.83	2.91	3.0	2.97	3.04	3.13	3.2	3.15	3.22	3.32	3.4	3.31	3.38	3.49	3.6	3.45	3.52	3.63	3.7	3.56	3.64	3.75	3.9
		Amps	6.3	6.4	6.6	6.7	6.7	6.8	6.9	7.1	7.1	7.2	7.3	7.5	7.4	7.5	7.7	7.9	7.7	7.8	8.0	8.3	8.0	8.2	8.4	8.6
		HI PR	234	252	266	277.4	263	283	298	311.2	299	321	339	354.0	340	366	387	403.1	383	412	435	453.5	423	455	480	501.1
		LO PR	117	125	136	145.3	124	132	144	153.5	129	137	150	159.5	135	144	157	167.6	142	151	165	175.6	147	156	171	181.7
	1370	MBh	42.4	43.2	45.2	48.3	41.4	42.2	44.2	47.1	40.4	41.2	43.1	46.0	39.4	40.2	42.1	44.9	37.4	38.2	40.0	42.6	34.7	35.4	37.0	39.5
		S/T	1.00	1.00	0.90	0.7	1.00	1.00	0.93	0.8	1.00	1.00	0.95	0.8	1.00	1.00	0.99	0.8	1.00	1.00	1.00	0.8	1.00	1.00	1.00	0.8
		ΔT	28	29	27	24	28	28	28	24	27	28	28	24	26	27	28	24	25	26	27	24	23	24	25	22.2
		kW	2.71	2.76	2.85	2.9	2.91	2.96	3.05	3.1	3.08	3.14	3.24	3.3	3.23	3.30	3.40	3.5	3.36	3.43	3.54	3.7	3.47	3.55	3.66	3.8
		Amps	6.2	6.3	6.5	6.6	6.6	6.7	6.8	7.0	6.9	7.0	7.2	7.4	7.2	7.4	7.5	7.7	7.6	7.7	7.9	8.1	7.9	8.0	8.2	8.4
		HI PR	227	244	258	269.0	255	274	289	301.9	290	312	329	343.3	330	355	375	391.1	371	399	422	439.9	410	441	466	486.1
		LO PR	114	121	132	140.9	120	128	140	148.9	125	133	145	154.8	131	140	153	162.6	138	147	160	170.4	142	152	165	176.2

IDB = Entering Indoor Dry Bulb Temperature

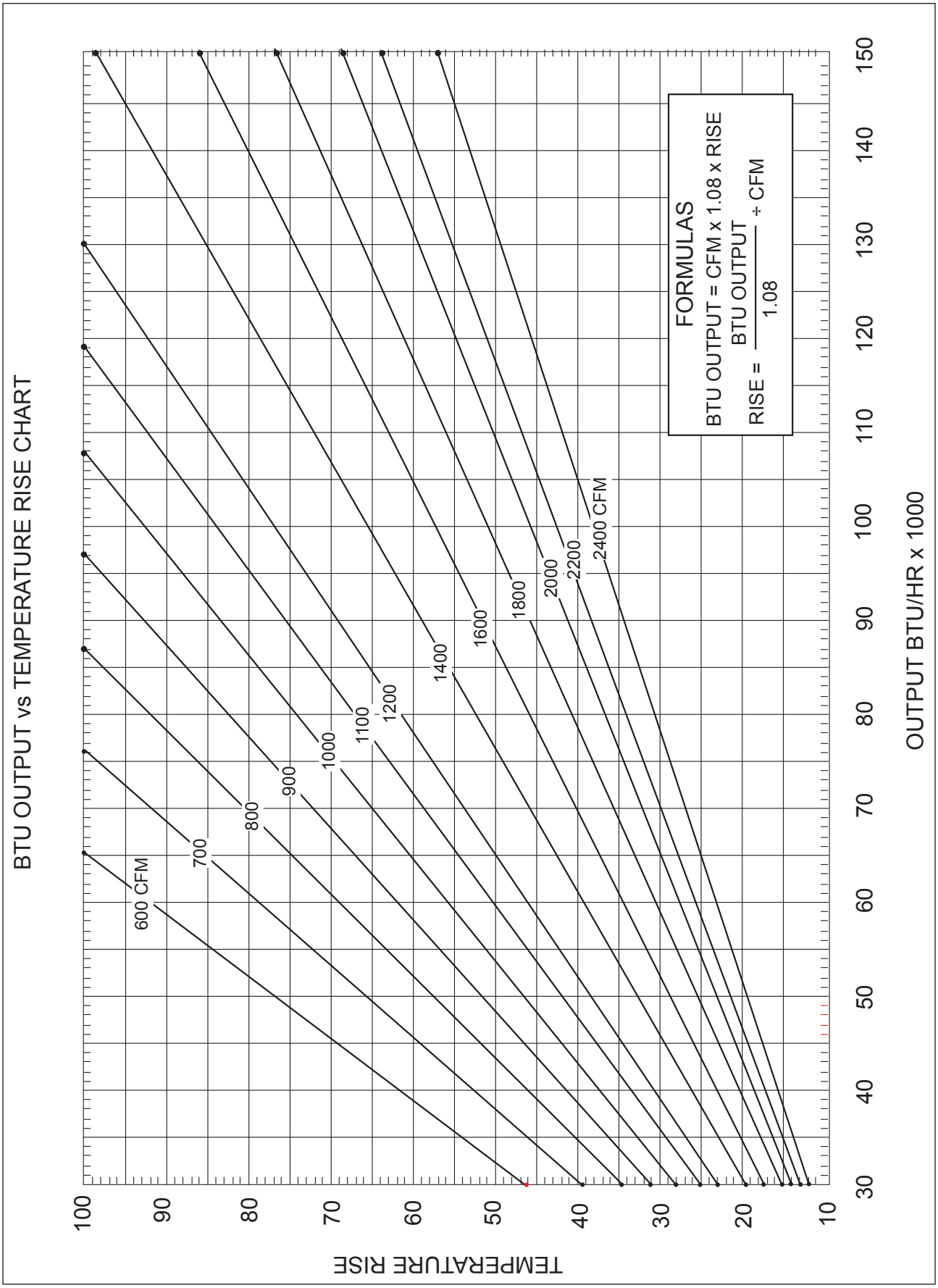
Shaded area reflects AHRI (TVA) conditions.

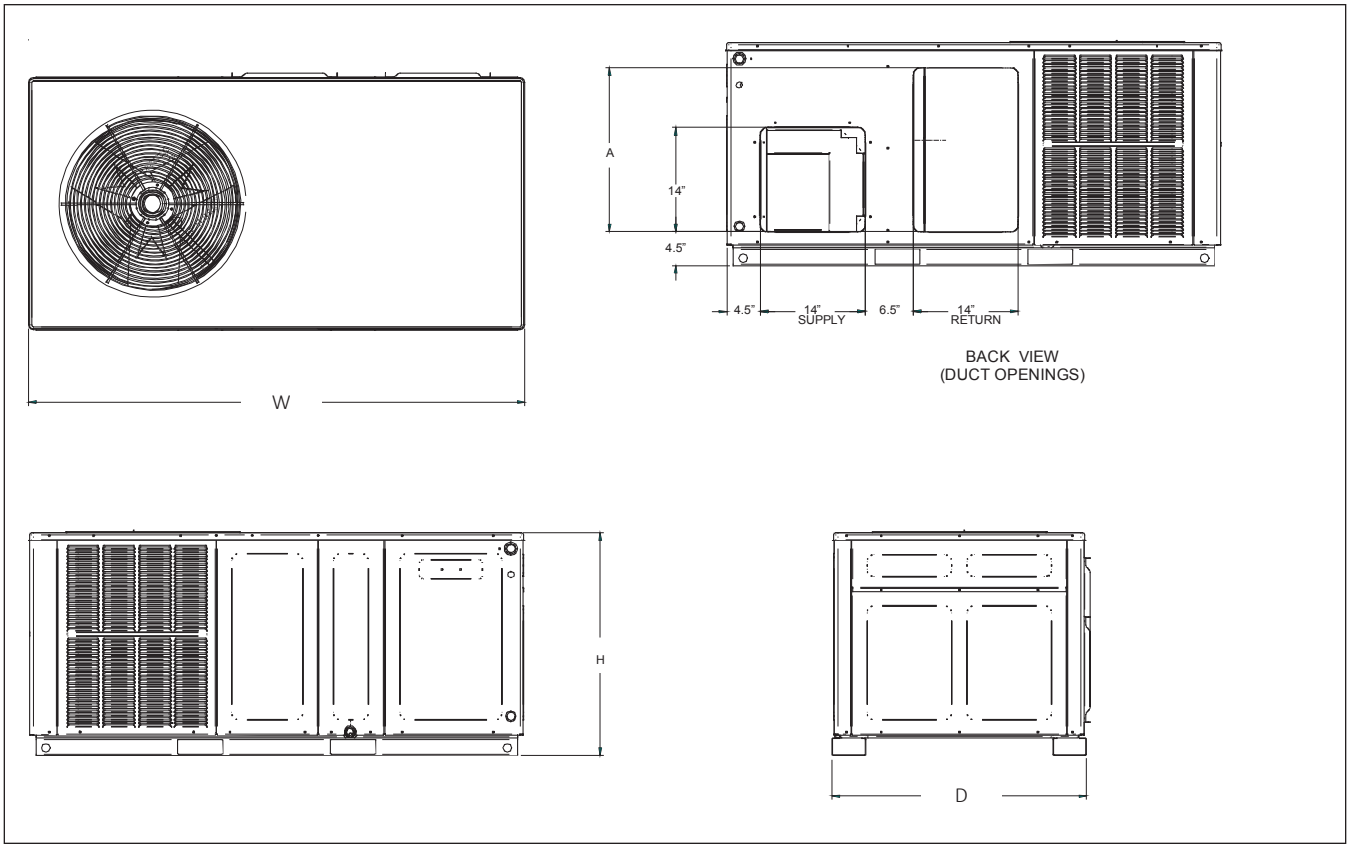
kW = total system power

High and low pressures are measured at the liquid and suction access fittings.

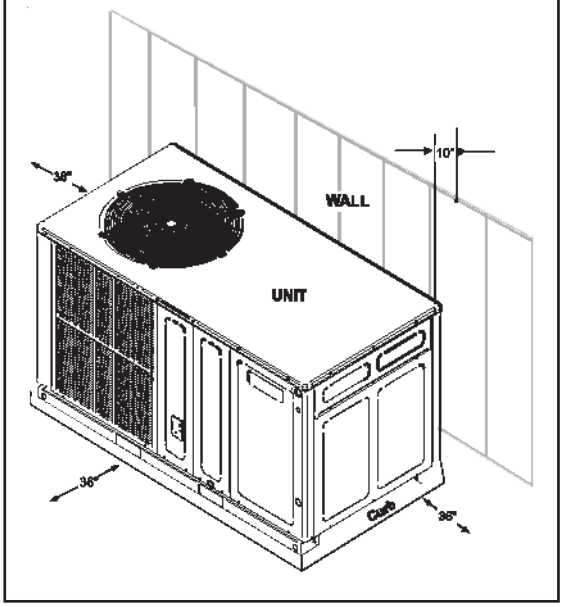
Amps: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL	SPEED*	VOLTS	TYPE	E.S.P. (IN. OF H_2O)							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
GPC14 36H4D**	T1	400	CFM	1143	1109	1060	1005	951	925	870	824
			Watts	133	153	165	177	183	197	210	222
	T2	400	CFM	1296	1240	1189	1131	1092	1052	1020	967
			Watts	182	195	207	217	228	240	258	262
	T3	400	CFM	1413	1355	1301	1248	1217	1165	1127	1093
			Watts	223	235	244	261	271	286	300	307
	T4	400	CFM	1496	1452	1410	1365	1316	1275	1233	1190
			Watts	273	284	297	306	319	336	341	355
	T4	400	CFM	1596	1555	1515	1474	1435	1387	1359	1309
			Watts	336	347	358	370	382	394	395	419
GPC14 48H4D**	T1	400	CFM	1683	1613	1557	1498	1459	1400	1341	1286
			Watts	319	336	348	353	368	376	389	400
	T2	400	CFM	1847	1791	1717	1676	1618	1574	1507	1464
			Watts	409	420	427	442	452	460	471	479
	T3	400	CFM	1871	1819	1759	1695	1657	1606	1547	1493
			Watts	510	520	533	536	549	558	567	577
	T4	400	CFM	1993	1944	1894	1848	1799	1737	1693	1654
			Watts	520	529	538	544	557	567	571	581
	T4	400	CFM	2062	2008	1954	1900	1852	1789	1727	1693
			Watts	552	560	569	578	587	596	603	614

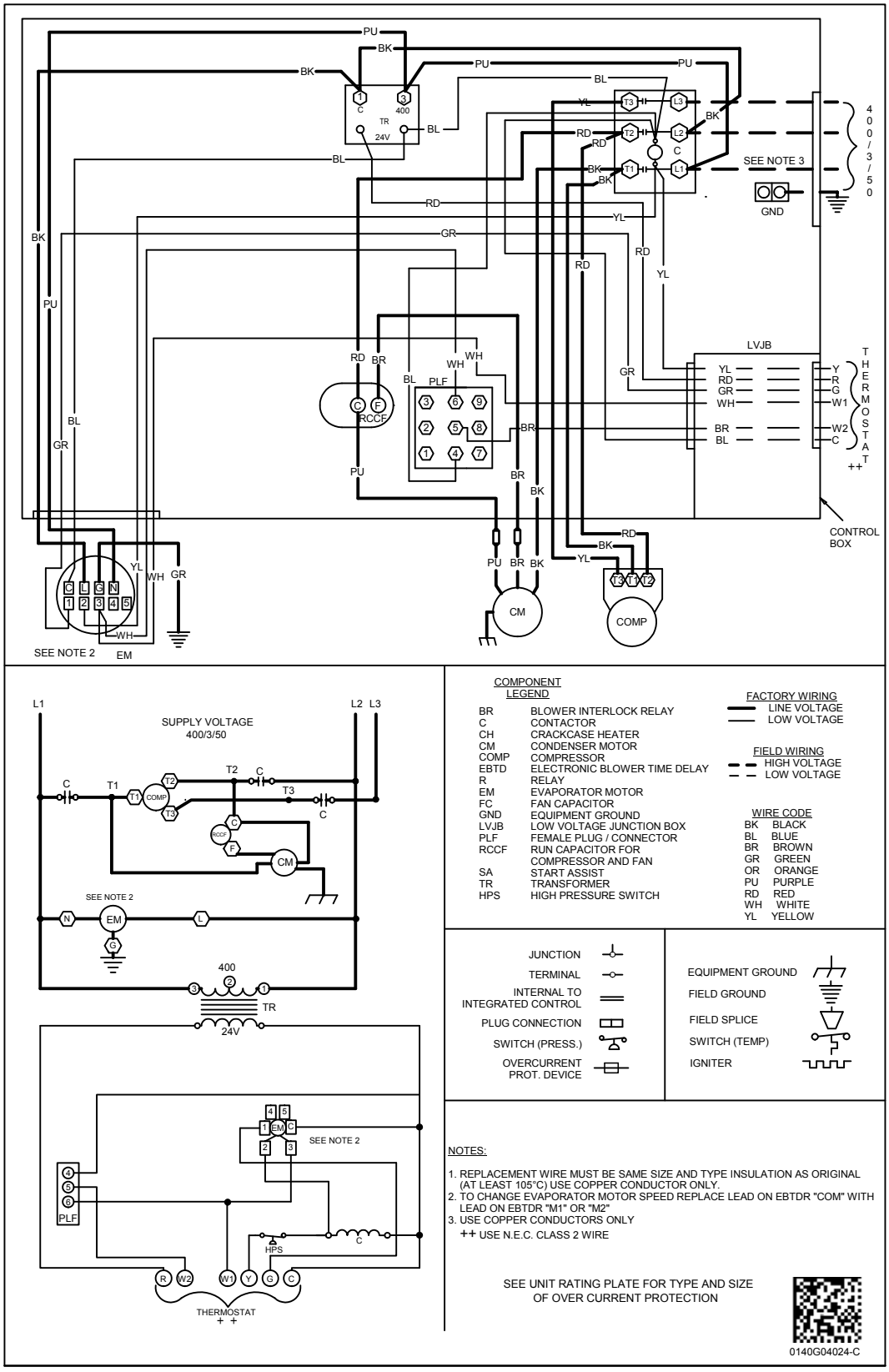

BTU OUTPUT vs TEMPERATURE RISE CHART
TEMPERATURE RISE
OUTPUT BTU/HR x 1000
100
90
80
70
60
50
40
30
20
10
30
40
50
60
70
80
90
100
110
120
130
140
150
600 CFM
700
800
900
1000
1100
1200
1400
1600
1800
2000
2200
2400 CFM
FORMULAS
BTU OUTPUT = CFM x 1.08 x RISE
RISE = BTU OUTPUT / 1.08 ÷ CFM



MINIMAL CLEARANCES



MODEL	DIMENSIONS				CHASSIS SIZE
	W"	D"	H"	A"	
GPC1436H4D**	66	33	30½	22	Small
GPC1448H4D**	66	33	35½	22	Medium



COMPONENT LEGEND

BR	BLOWER INTERLOCK RELAY
C	CONTACTOR
CH	CRACKCASE HEATER
CM	CONDENSER MOTOR
COMP	COMPRESSOR
EBTD	ELECTRONIC BLOWER TIME DELAY
R	RELAY
EM	EVAPORATOR MOTOR
FC	FAN CAPACITOR
GND	EQUIPMENT GROUND
LVJB	LOW VOLTAGE JUNCTION BOX
PLF	FEMALE PLUG / CONNECTOR
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN
SA	START ASSIST
TR	TRANSFORMER
HPS	HIGH PRESSURE SWITCH

FACTORY WIRING
LINE VOLTAGE
LOW 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

JUNCTION
TERMINAL
INTERNAL TO INTEGRATED CONTROL
PLUG CONNECTION
SWITCH (PRESS.)
OVERCURRENT PROT. DEVICE

EQUIPMENT GROUND
FIELD GROUND
FIELD SPLICE
SWITCH (TEMP)
IGNITER

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 REPLACE LEAD ON EBTDR "COM" WITH LEAD ON EBTDR "M1" OR "M2"
3. USE COPPER CONDUCTORS ONLY

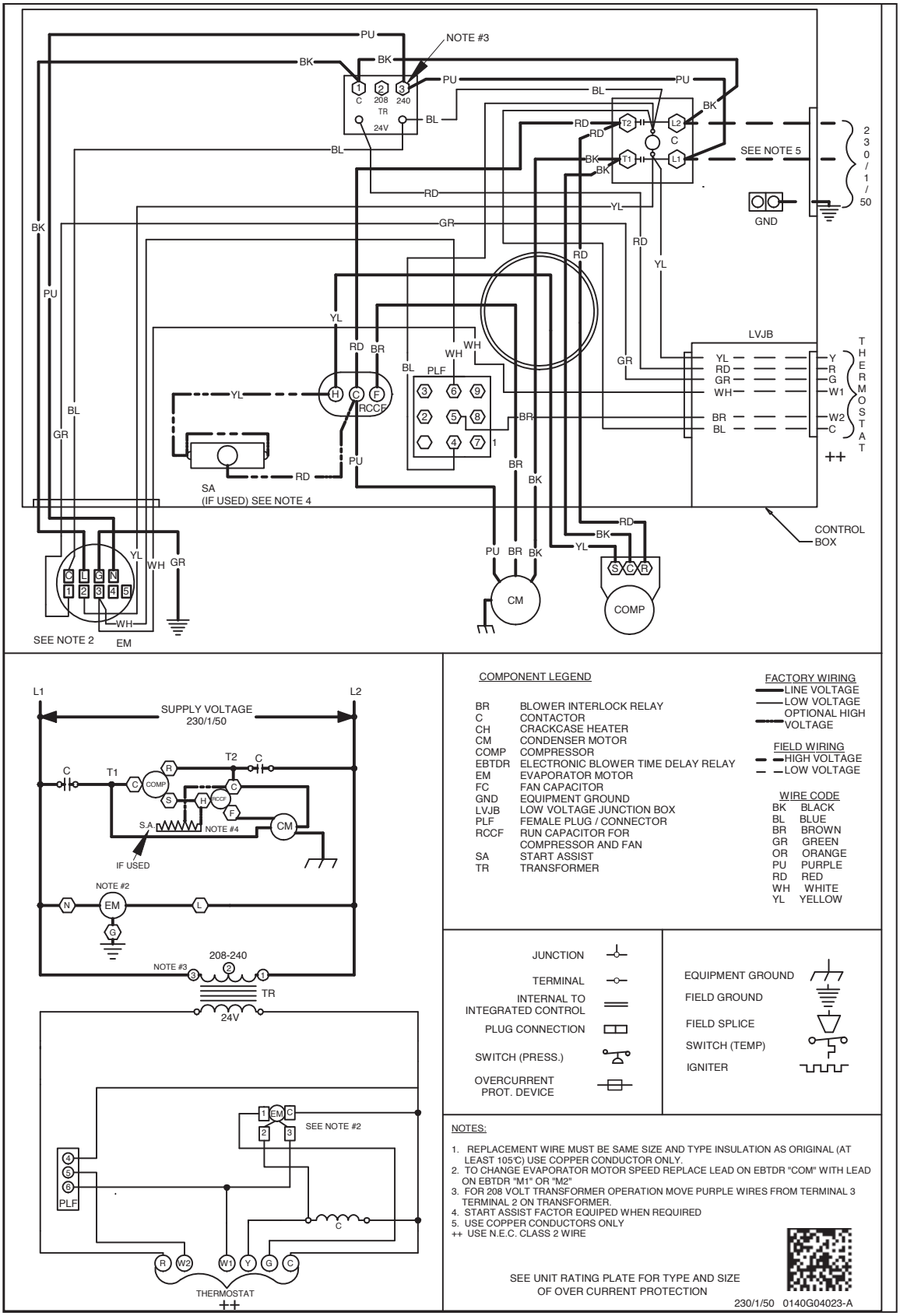
++ USE N.E.C. CLASS 2 WIRE

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

0140G04024-C

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.



COMPONENT LEGEND

BR	BLOWER INTERLOCK RELAY
C	CONTACTOR
CH	CRACKCASE HEATER
CM	CONDENSER MOTOR
COMP	COMPRESSOR
EBTDR	ELECTRONIC BLOWER TIME DELAY RELAY
EM	EVAPORATOR MOTOR
FC	FAN CAPACITOR
GND	EQUIPMENT GROUND
LVJB	LOW VOLTAGE JUNCTION BOX
PLF	FEMALE PLUG / CONNECTOR
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN
SA	START ASSIST
TR	TRANSFORMER

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

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

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 REPLACE LEAD ON EBTDR "COM" WITH LEAD ON EBTDR "M1" OR "M2"
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TERMINAL 2 ON TRANSFORMER.
4. START ASSIST FACTOR EQUIPED WHEN REQUIRED
5. USE COPPER CONDUCTORS ONLY

++ USE N.E.C. CLASS 2 WIRE

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

230/1/50 0140G04023-A