



Air Conditioning & Heating

PRODUCT SPECIFICATIONS



13 SEER / 11.1 EER

80% AFUE

COOLING CAPACITY: 71,000 BTU/H

HEATING CAPACITY: 103,000 — 138,000 BTU/H



* Full warranty details available at www.goodmanmfg.com.

CPG COMMERCIAL 6-TON SELF-CONTAINED PACKAGED GAS/ELECTRIC UNITS

The Goodman® brand CPG six-ton Commercial Packaged Gas/Electric Units feature the chlorine-free refrigerant R-410A. Other features include our patented TuffTube™ dual-diameter tubular heat exchanger and a high-efficiency scroll compressor. These units are housed in a heavy-gauge, galvanized-steel cabinet with UV-resistant power-paint finish.

Standard Features

- R-410A chlorine-free refrigerant
- TuffTube™ tubular heat exchanger
- High-efficiency scroll compressor
- Copper tube / aluminum fin coils
- Contactor with lugs
- High-capacity, steel-cased filter dryer
- Two-stage heat
- 24-volt terminal strip
- Convertible
- Easy to service
- Built-in filter rack with standard 2" filters
- Bottom utility entry
- Complies with California NOx emissions standards
- AHRI Certified; ETL Listed

Cabinet Features

- Heavy-gauge, galvanized-steel cabinet with UV-resistant powder-paint finish
- Full Perimeter Rail
- Curb Fit

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NOMENCLATURE

	C	P	G	072	070	1	D	X	X	X	
	1	2	3	4,5,6	7,8,9	10	11	12	13	14	
Brand											Factory-Installed Special Features
C Commercial										X	No Features
Configuration											Special Treatment
P Packaged Multi-Position										X	No Treatment / Standard
											Aluminized Heat Exchanger (AH)
										S	Stainless Steel Heat Exchanger
Application											Economizer Options (Factory Installed)
C Cooling										X	No Economizer
G Gas Heat											
H Heat Pump											
Nominal Gross Cooling Capacity											Supply Fan/Drive Type/Motor
036 3 Tons											B Belt Drive
048 4 Tons											D Direct Drive
060 5 Tons											
072 6 Tons											
090 7½ Tons											
120 10 Tons											
Heating Capacity											Voltage
Gas Heat (CPG)											1 208V 1-Phase
045 45,000 BTU/h											2 220/240V 1-Phase 50 Hz
070 70,000 BTU/h											3 208V 3-Phase
090 90,000 BTU/h											4 460V 3-Phase
											5 380/415V 3-Phase 50 Hz
											7 575V 3-Phase
Auxiliary Electric Heat (CPC/CPH)											
XXX No Heat											

PRODUCT SPECIFICATIONS

	CPG0721403BXXX	CPG0721404BXXX	CPG0721407BXXX
COOLING CAPACITY			
Total BTU/h	71,000	71,000	71,000
Sensible BTU/h	48,280	48,280	48,280
EER	11.1	11.1	11.1
Decibels	78.0	78.0	78.0
AHRI Number	3397632	3397632	3397632
HEATING CAPACITY			
Max. Input / Output KBTU/h	138 / 110.4	138 / 110.4	138 / 110.4
Low Input/ Output KBTU/h	103 / 83	103 / 83	103 / 83
Steady State Efficiency	80	80	80
Temperature Rise Range (°F)	30-60 / 15-45	30-60 / 15-45	30-60 / 15-45
No. of Burners	6	6	6
EVAPORATOR MOTOR / COIL			
Motor Type	Belt Drive	Belt Drive	Belt Drive
# of Wheels (D x W)	1 (11" x 10")	1 (11" x 10")	1 (11" x 10")
Indoor Nominal CFM	2,400	2,400	2,400
Indoor Motor FLA (Cooling)	5.0	2.5	2.3
Horsepower - RPM	1.5-1,725	1.5-1,725	1.5-1,725
Piston Size (Cooling)	0.094	0.094	t
Filter Size (Qty)	(4) 16" x 20" x 2"	(4) 16" x 20" x 2"	(4) 16" x 20" x 2"
Drain Size (NPT)	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	220.0	220.0	220.0
Evaporator Coil Face Area (ft²)	8.9	8.9	8.9
Rows Deep/ Fins per Inch	4/ 16	4/ 16	4/ 16
Motor Sheave	VL44 x 7/8	VL44 x 7/8	VL44 x 7/8
Blower Sheave / Belt	AK59x1 / AX53	AK59x1 / AX53	AK59x1 / AX53
CONDENSER FAN / COIL			
Quantity of Condenser Fan Motors	1	1	1
Horsepower - RPM	⅓ - 1,075	⅓ - 1,075	⅓ - 1,075
Fan Diameter/ # Fan Blades	22/ 4	22/ 4	22/ 4
Outdoor Nominal CFM	4,300	4,300	4,300
Face Area (ft²)	18.7	18.7	18.7
Rows Deep/ Fins per Inch	2/ 20	2/ 20	2/ 20
COMPRESSOR			
Quantity / Stage	1 / Single	1 / Single	1 / Single
Type	Scroll	Scroll	Scroll
Compressor RLA / LRA ea.	19/ 123	9.7/ 62	7.4/ 50
ELECTRICAL DATA			
Voltage/ Phase/ Frequency	208-230/ 3/ 60	460/ 3/ 60	575/ 3/ 60
Belt-Driven Standard Max Static	1.0	1.0	1.0
Outdoor Fan RLA ea.	1.90	1.20	0.90
Total Unit Amps	25.9	13.4	10.6
Min. Circuit Ampacity¹	31	16	12
Max. Overcurrent Protection (amps)²	45	25	15
Entrance Power Supply	1.125"	1.125"	1.125"
Entrance Control Voltage	½"	½"	½"
OPERATING WEIGHT (LBS)	690	690	690
SHIP WEIGHT (LBS)	715	715	715

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

IDB		Outdoor Ambient Temperature																							
		65				75				85				95				105				115			
		Entering Indoor Wet Bulb Temperature																							
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	
2400	MBh	68.6	71.1	77.9	-	67.0	69.4	76.0	-	65.4	67.8	74.2	-	63.8	66.1	72.4	-	60.6	62.8	68.8	-	56.1	58.2	63.7	-
	S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
	kW	5.08	5.18	5.33	-	5.44	5.54	5.71	-	5.75	5.86	6.04	-	6.02	6.15	6.33	-	6.26	6.39	6.58	-	6.46	6.59	6.80	-
	HI PR	237	255	270	-	266	286	302	-	303	326	344	-	345	371	392	-	388	417	441	-	429	461	487	-
70	LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-
	MBh	67.5	70.0	76.7	-	66.0	68.4	74.9	-	64.4	66.8	73.1	-	62.8	65.1	71.4	-	59.7	61.9	67.8	-	55.3	57.3	62.8	-
	S/T	0.65	0.55	0.38	-	0.68	0.57	0.39	-	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.75	0.63	0.43	-
	ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-
	kW	5.06	5.16	5.30	-	5.41	5.52	5.68	-	5.72	5.83	6.01	-	5.99	6.11	6.30	-	6.22	6.35	6.54	-	6.42	6.56	6.76	-
2150	HI PR	236	253	268	-	264	284	300	-	301	323	342	-	342	368	389	-	385	414	438	-	426	458	484	-
	LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-
	MBh	62.3	64.6	70.8	-	60.9	63.1	69.2	-	59.4	61.6	67.5	-	58.0	60.1	65.9	-	55.1	57.1	62.6	-	51.0	52.9	58.0	-
	S/T	0.63	0.53	0.36	-	0.65	0.55	0.38	-	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.72	0.60	0.42	-
	ΔT	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
1875	kW	4.95	5.04	5.19	-	5.29	5.39	5.55	-	5.59	5.70	5.87	-	5.85	5.97	6.15	-	6.08	6.20	6.39	-	6.27	6.40	6.60	-
	HI PR	228	246	260	-	256	276	291	-	292	314	331	-	332	357	377	-	374	402	425	-	413	444	469	-
	LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-

		Outdoor Ambient Temperature																							
		65												105											
		75												95											
		Entering Indoor Wet Bulb Temperature																							
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
2400	MBh	69.7	71.8	77.7	83.4	68.1	70.1	75.9	81.5	66.5	68.4	74.1	79.5	64.9	66.8	72.3	77.6	61.6	63.4	68.7	73.7	57.1	58.8	63.6	68.3
	S/T	0.78	0.69	0.53	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	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
	kW	5.12	5.22	5.37	5.53	5.48	5.59	5.75	5.92	5.79	5.91	6.08	6.27	6.07	6.19	6.38	6.58	6.31	6.44	6.63	6.84	6.51	6.64	6.85	7.07
	HI PR	240	258	272	284	269	289	306	319	306	329	347	362	348	375	396	413	392	422	445	464	433	466	492	513
	LO PR	108	115	125	133	114	121	132	141	118	126	138	147	124	132	145	154	130	139	151	161	135	144	157	167
75	MBh	68.7	70.7	76.6	82.2	67.1	69.1	74.8	80.3	65.5	67.4	73.0	78.3	63.9	65.8	71.2	76.4	60.7	62.5	67.7	72.6	56.2	57.9	62.7	67.3
	S/T	0.74	0.66	0.50	0.32	0.77	0.69	0.52	0.34	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.85	0.76	0.58	0.37
	ΔT	22	20	16	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	15	11
	kW	5.10	5.19	5.34	5.50	5.45	5.56	5.72	5.89	5.76	5.88	6.05	6.24	6.04	6.16	6.35	6.54	6.27	6.40	6.60	6.80	6.47	6.61	6.81	7.03
	HI PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	463	489	510
	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
1875	MBh	63.4	65.3	70.7	75.8	61.9	63.8	69.0	74.1	60.5	62.2	67.4	72.3	59.0	60.7	65.7	70.5	56.0	57.7	62.4	67.0	51.9	53.4	57.8	62.1
	S/T	0.72	0.64	0.49	0.31	0.74	0.66	0.50	0.32	0.76	0.68	0.52	0.33	0.79	0.70	0.53	0.34	0.82	0.73	0.55	0.36	0.82	0.74	0.56	0.36
	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	4.99	5.08	5.22	5.38	5.33	5.43	5.59	5.76	5.63	5.74	5.91	6.09	5.90	6.02	6.20	6.39	6.13	6.25	6.44	6.64	6.32	6.45	6.65	6.86
	HI PR	231	248	262	274	259	279	294	307	295	317	335	349	335	361	381	398	377	406	429	447	417	449	474	494
	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

IDB = Entering Indoor Dry Bulb Temperature
 Design Subcooling: 11°F @ liquid access fitting connection AHR1 95 test conditions; Design Superheat: 18°F @ compressor suction access fitting connection.
 Shaded area reflects ACCA (TVA) Rating Conditions
 High and low pressures are measured at the liquid and suction access fittings.
 kW = Total system power
 Amps: Unit amps (comp. + evaporator + condenser fan motors)

EXPANDED COOLING DATA

IDB		Outdoor Ambient Temperature																												
		65					75					85					95					105					115			
		Entering Indoor Wet Bulb Temperature																												
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	59	63	67	71		
2400	MBh	71.0	72.5	77.5	82.8	69.3	70.8	75.7	80.9	67.7	69.1	73.9	79.0	66.0	67.5	72.1	77.0	62.7	64.1	68.5	73.2	58.1	59.4	63.4	67.8					
	S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56					
	ΔT	23	22	19	15	23	22	20	16	23	22	20	16	24	23	20	16	23	22	19	16	22	21	18	14					
	kW	5.16	5.26	5.41	5.57	5.52	5.63	5.79	5.97	5.84	5.95	6.13	6.32	6.12	6.24	6.43	6.63	6.36	6.49	6.69	6.90	6.56	6.70	6.90	7.12					
	HI PR	242	260	275	287	272	292	309	322	309	332	351	366	352	379	400	417	396	426	450	469	437	471	497	518					
	LO PR	109	116	127	135	115	123	134	142	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169					
80	MBh	69.9	71.4	76.3	81.6	68.3	69.8	74.6	79.7	66.7	68.1	72.8	77.8	65.0	66.5	71.0	75.9	61.8	63.1	67.5	72.1	57.2	58.5	62.5	66.8					
	S/T	0.82	0.76	0.62	0.47	0.84	0.79	0.64	0.48	0.87	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.94	0.88	0.71	0.53					
	ΔT	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15					
	kW	5.13	5.23	5.38	5.54	5.49	5.60	5.76	5.94	5.81	5.92	6.10	6.29	6.08	6.21	6.40	6.59	6.32	6.45	6.65	6.86	6.53	6.66	6.87	7.08					
	HI PR	240	259	273	285	270	290	306	320	307	330	349	364	349	376	397	414	393	423	447	466	434	467	493	515					
	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					
1875	MBh	64.5	65.9	70.4	75.3	63.0	64.4	68.8	73.6	61.5	62.9	67.2	71.8	60.0	61.3	65.5	70.1	57.0	58.3	62.3	66.6	52.8	54.0	57.7	61.6					
	S/T	0.79	0.74	0.60	0.45	0.81	0.76	0.62	0.46	0.84	0.78	0.64	0.48	0.86	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.90	0.85	0.69	0.51					
	ΔT	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	16					
	kW	5.02	5.12	5.26	5.42	5.37	5.47	5.63	5.80	5.67	5.79	5.96	6.14	5.95	6.07	6.25	6.44	6.17	6.30	6.49	6.69	6.37	6.50	6.70	6.91					
	HI PR	233	251	265	276	262	282	297	310	298	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499					
	LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162					

	Outdoor Ambient Temperature																													
	65					75					85					95														
	Entering Indoor Wet Bulb Temperature																													
2400	MBh	72.2	73.6	77.1	82.2	70.5	71.9	75.3	80.3	68.8	70.2	73.5	78.4	67.2	68.5	71.7	76.5	63.8	65.0	68.1	72.7	59.1	60.2	63.1	67.3					
	S/T	0.89	0.86	0.78	0.63	0.93	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.99	0.89	0.72					
	ΔT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	23	23	22	19					
	kW	5.20	5.30	5.45	5.61	5.56	5.67	5.84	6.01	5.88	6.00	6.18	6.37	6.16	6.29	6.48	6.68	6.40	6.54	6.74	6.95	6.61	6.75	6.96	7.18					
	HI PR	244	263	278	290	274	295	312	325	312	336	355	370	355	382	404	421	400	430	454	474	442	475	502	523					
	LO PR	110	117	128	136	116	124	135	144	121	129	140	150	127	135	147	157	133	142	155	165	138	146	160	170					
2150	MBh	71.1	72.5	75.9	81.0	69.5	70.8	74.2	79.1	67.8	69.1	72.4	77.3	66.2	67.5	70.6	75.4	62.9	64.1	67.1	71.6	58.2	59.4	62.2	66.3					
	S/T	0.85	0.82	0.74	0.60	0.89	0.85	0.77	0.63	0.91	0.88	0.79	0.64	0.94	0.90	0.82	0.66	0.97	0.94	0.85	0.69	0.98	0.95	0.85	0.69					
	ΔT	26	26	24	21	26	26	24	21	26	26	24	21	27	26	25	21	26	26	24	21	24	24	23	20					
	kW	5.17	5.27	5.42	5.58	5.53	5.64	5.81	5.98	5.85	5.97	6.15	6.33	6.13	6.26	6.45	6.65	6.37	6.50	6.70	6.91	6.58	6.71	6.92	7.14					
	HI PR	243	261	276	288	272	293	310	323	310	333	352	367	353	380	401	418	397	427	451	470	439	472	498	520					
	LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169					
1875	MBh	65.7	66.9	70.1	74.8	64.1	65.4	68.5	73.0	62.6	63.8	66.8	71.3	61.1	62.3	65.2	69.6	58.0	59.1	61.9	66.1	53.7	54.8	57.4	61.2					
	S/T	0.82	0.80	0.72	0.58	0.85	0.82	0.74	0.60	0.88	0.85	0.76	0.62	0.90	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.95	0.91	0.82	0.67					
	ΔT	27	26	25	21	27	26	25	22	27	26	25	22	27	27	25	22	27	26	25	21	25	25	23	20					
	kW	5.06	5.15	5.30	5.46	5.41	5.51	5.67	5.84	5.72	5.83	6.00	6.19	5.99	6.11	6.30	6.49	6.22	6.35	6.54	6.75	6.42	6.55	6.76	6.97					
	HI PR	235	253	268	279	264	284	300	313	301	323	341	356	342	368	389	406	385	414	438	456	425	458	483	504					
	LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164					

IDB = Entering Indoor Dry Bulb Temperature Shaded area reflects ACCA (TVA) Rating Conditions
Design Subcooling: 11°F @ liquid access fitting connection AHR1 95 test conditions; Design Superheat: 18°F @ compressor suction access fitting connection.
High and low pressures are measured at the liquid and suction access fittings.
kW = Total system power
Amps: Unit amps (comp. + evaporator + condenser fan motors)

AIRFLOW DATA

CPG072 STANDARD BELT DRIVE — HORIZONTAL

ESP (In W.C.)	0 Turns		1 Turn		2 Turns		3 Turns		4 Turns		5 Turns	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2							2749	1.18	2573	0.96	2402	0.79
0.4					2680	1.22	2544	1.06	2346	0.84	2164	0.68
0.6			2655	1.31	2498	1.10	2306	0.92	2094	0.72	1890	0.57
0.8	2703	1.47	2486	1.20	2263	0.97	2076	0.81				
1	2515	1.34	2272	1.07	2002	0.83						
1.2	2253	1.16	2028	0.93								

CPG072 STANDARD BELT DRIVE — DOWN SHOT

ESP (In W.C.)	0 Turns		1 Turn		2 Turns		3 Turns		4 Turns		5 Turns	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2					2625	1.18	2486	1.02	2322	0.83	2152	0.68
0.4	2765	1.52	2596	1.28	2476	1.09	2327	0.94	2159	0.75	1938	0.59
0.6	2650	1.43	2452	1.18	2325	1.00	2070	0.80	1898	0.64		
0.8	2443	1.29	2251	1.06	2068	0.86	1868	0.71				
1	2258	1.17	2040	0.94	1806	0.73						
1.2	2021	1.02										

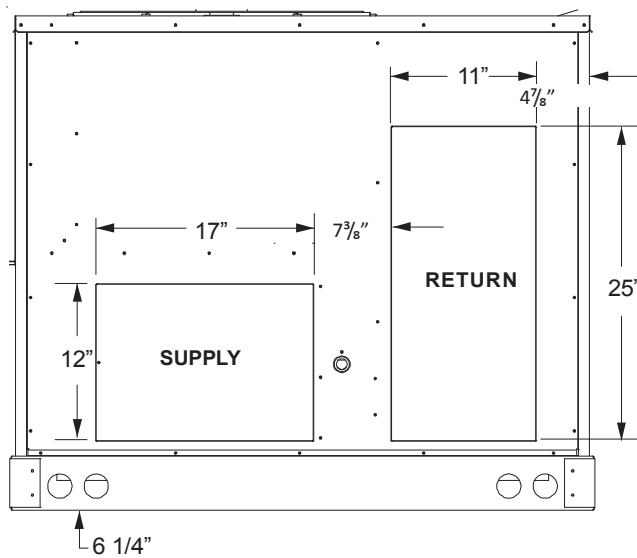
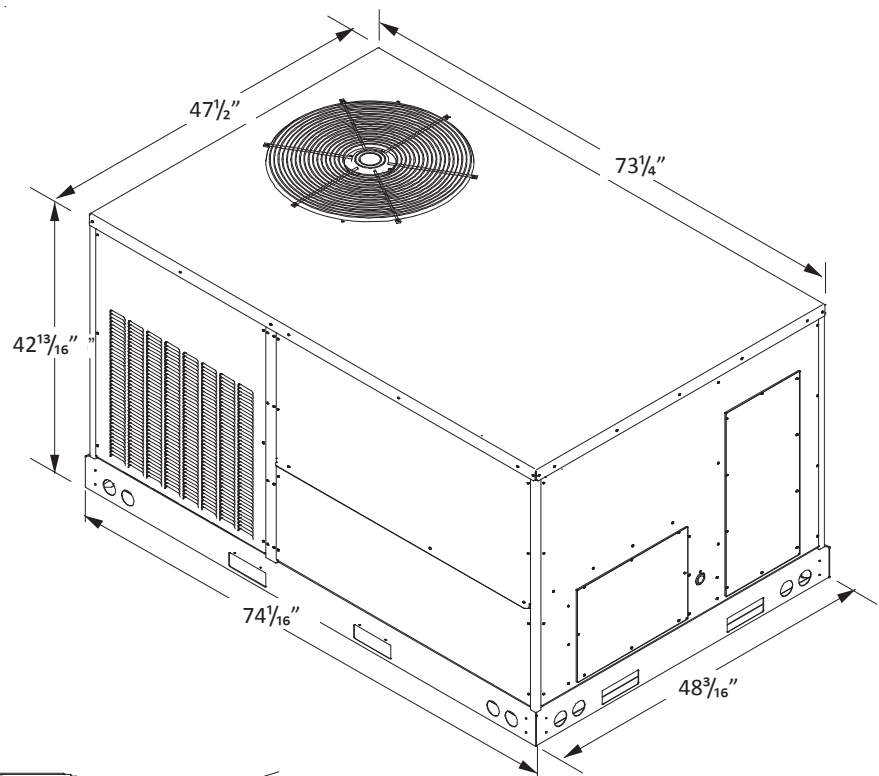
CPG072 HIGH STATIC BELT DRIVE — HORIZONTAL

ESP (In W.C.)	0 Turns		1 Turn		2 Turns		3 Turns		4 Turns		5 Turns	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6									2677	1.29	2486	1.07
0.8							2690	1.42	2529	1.20	2263	0.94
1					2740	1.60	2471	1.27	2246	1.02	1972	0.79
1.2			2748	1.74	2518	1.44	2255	1.13	1970	0.87		
1.4	2797	1.87	2562	1.59	2273	1.27	2025	0.99				
1.6	2556	1.67	2314	1.40	2035	1.11						
1.8	2342	1.50	2037	1.21								
2	2137	1.35										

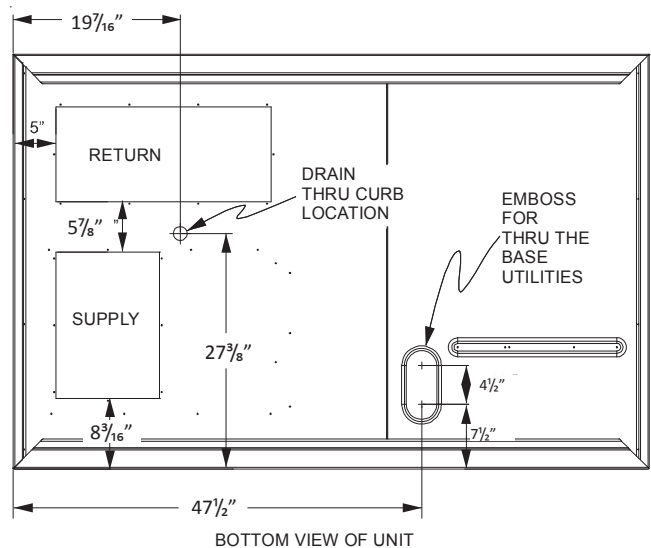
CPG072 HIGH STATIC BELT DRIVE — DOWN SHOT

ESP (In W.C.)	0 Turns		1 Turn		2 Turns		3 Turns		4 Turns		5 Turns	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.6					2793	1.64	2575	1.37	2407	1.15	2250	0.96
0.8			2775	1.76	2638	1.53	2407	1.25	2226	1.04	2011	0.84
1	2821	1.89	2660	1.67	2407	1.36	2194	1.12	2012	0.92		
1.2	2696	1.79	2497	1.54	2228	1.23	1977	0.98				
1.4	2455	1.59	2236	1.35	2013	1.10						
1.6	2262	1.44	2032	1.20								
1.8	2069	1.30										

UNIT DIMENSIONS



Horizontal Discharge

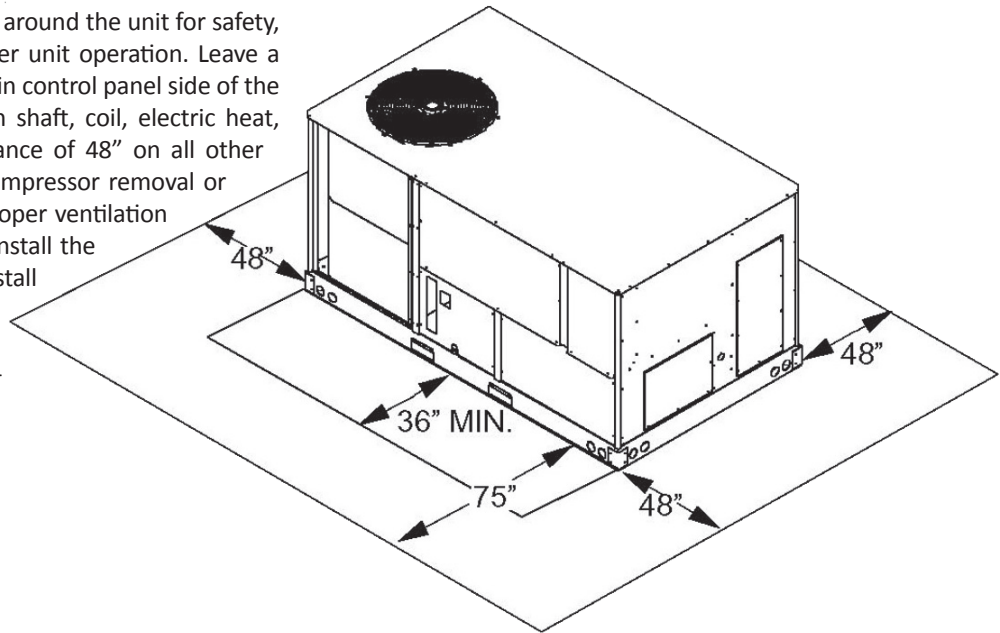


BOTTOM VIEW OF UNIT

Vertical Discharge

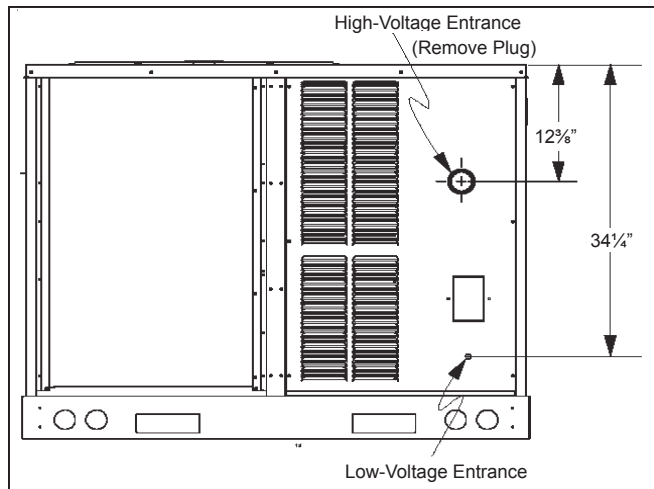
UNIT CLEARANCES

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.

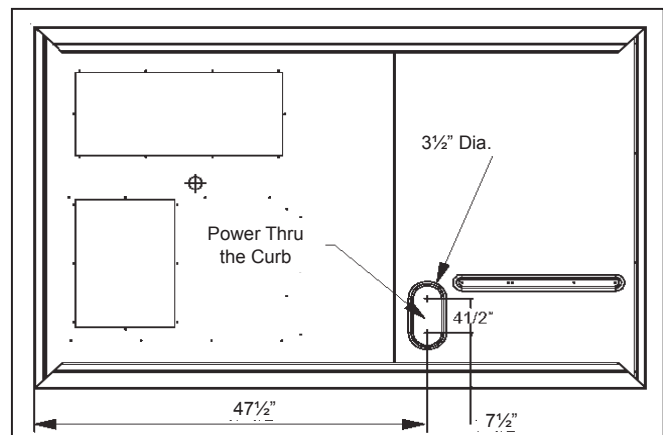


ELECTRICAL ENTRANCE LOCATIONS

CONDENSER END VIEW



BOTTOM VIEW



ROOF CURB INSTALLATION — RIGGING

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

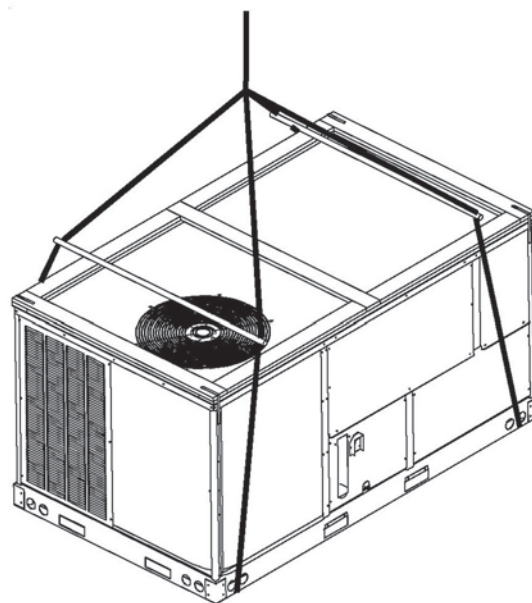
- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the 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.

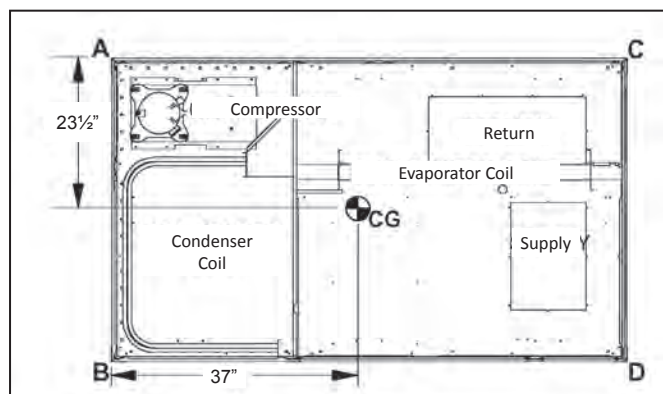
Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

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.



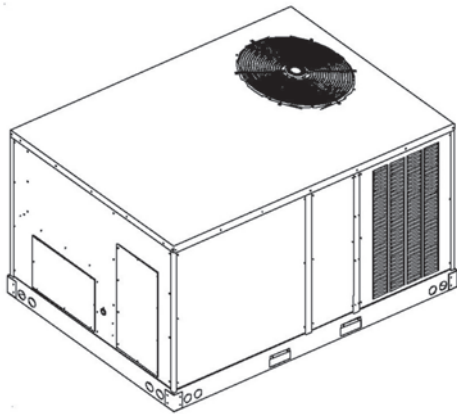
CORNER & CENTER-OF-GRAVITY LOCATIONS



UNIT WEIGHTS	WEIGHT (LBS)
Corner Weight (A)	130
Corner Weight (B)	215
Corner Weight (C)	130
Corner Weight (D)	215
Unit Shipping Weight	715
Unit Operating Weight	690

Note: Weights are calculated without accessories installed.

ROOF CURB INSTALLATION (CONT.)



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.

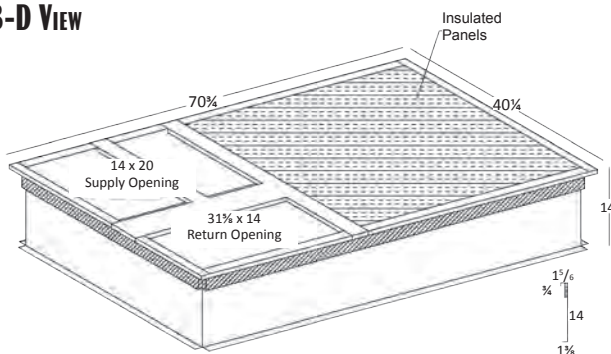
- Determine sufficient structural support before locating and mounting the curb and package unit.
- Duct-work must be constructed using industry guidelines. The duct-work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be 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.

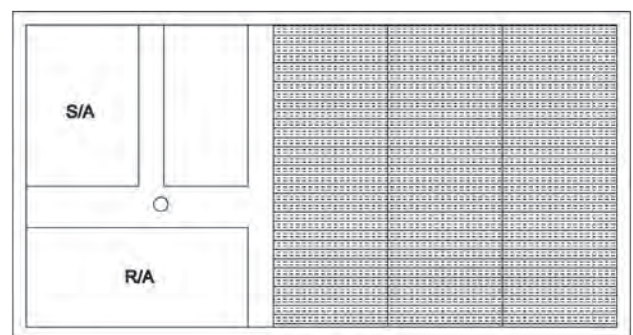
Note: The unit and curb accessories are designed to allow vertical duct installation before unit placement. Duct installation after unit placement is not recommended.

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

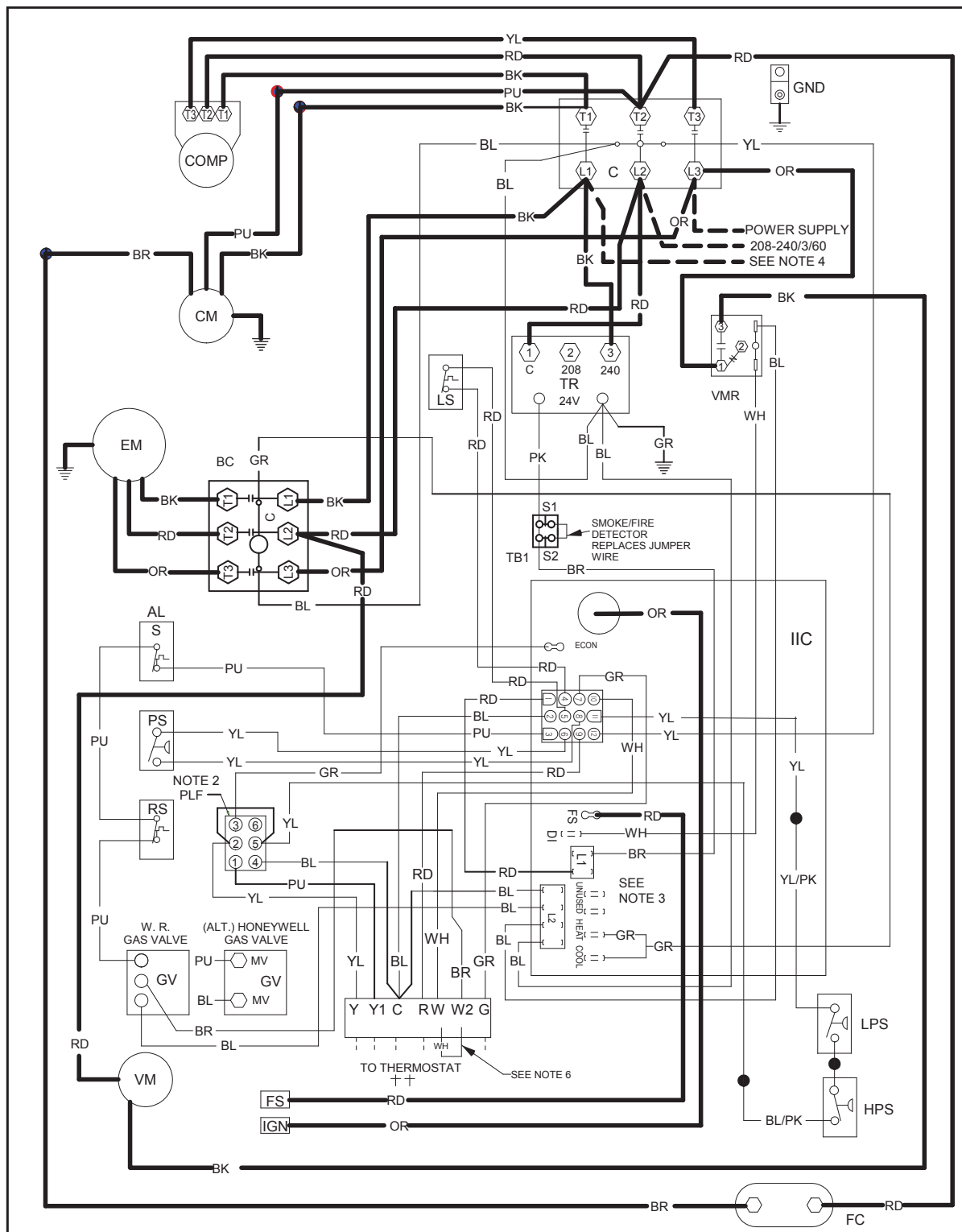
3-D VIEW



TOP VIEW



WIRING DIAGRAM — CPG072XXX3BXXX (THREE-PHASE, BELT DRIVE)



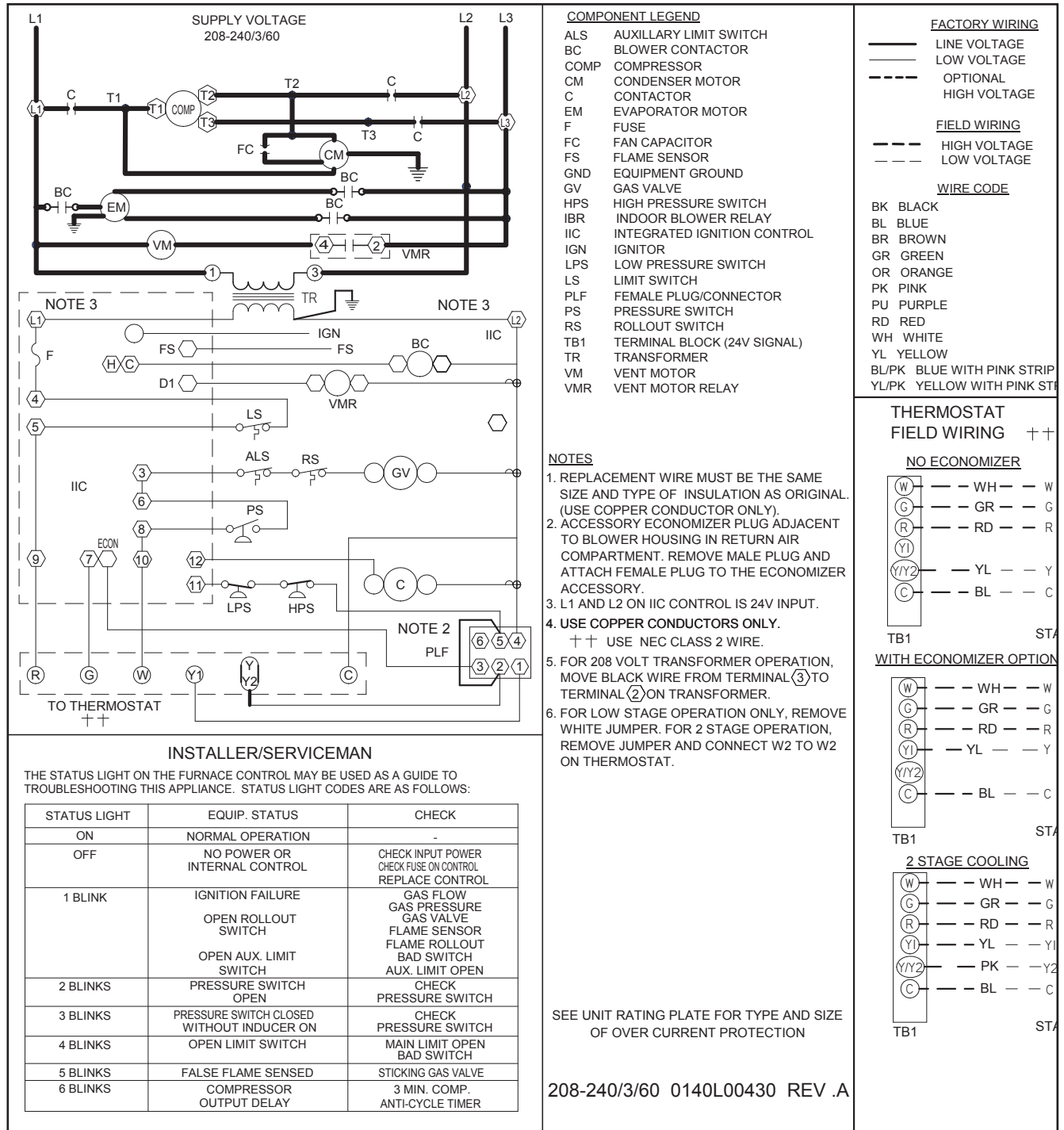
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.



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.



WIRING DIAGRAM — CPG072XXX3BXXX (THREE-PHASE, BELT DRIVE) (CONT.)



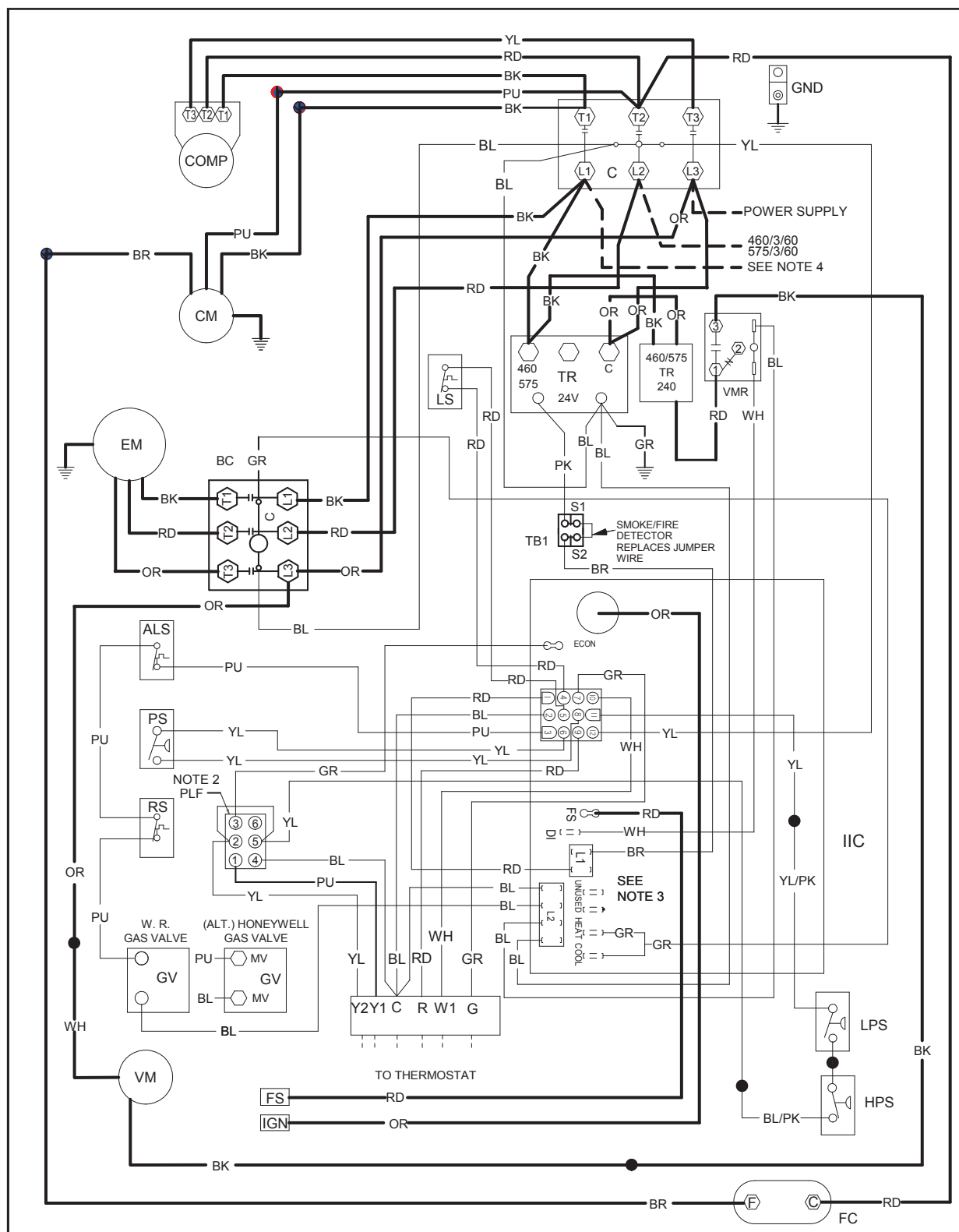
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.



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.



WIRING DIAGRAM — CPG072XXX4B/ 7BXXX (460V/ 575V BELT DRIVE)



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

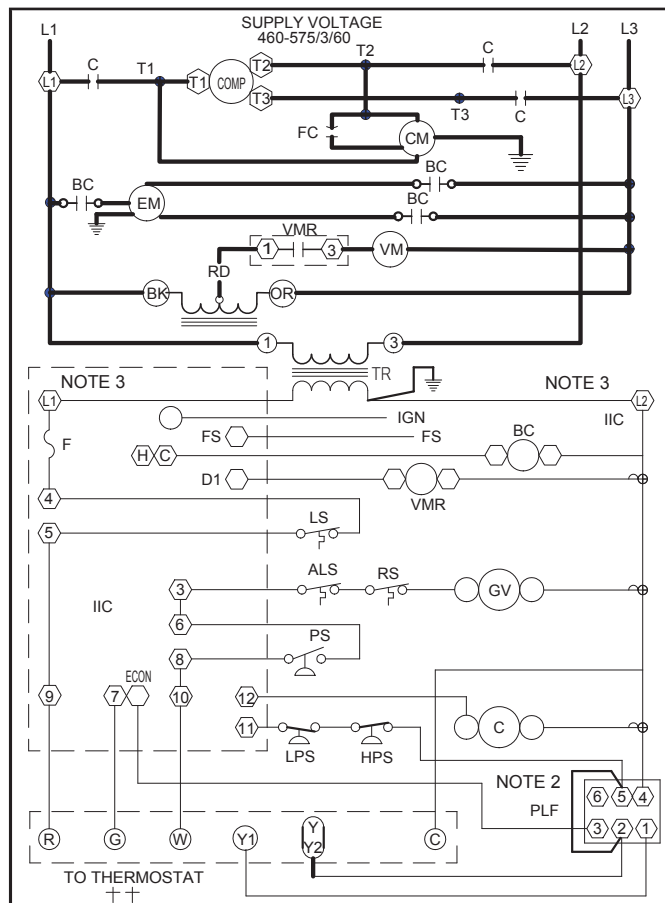


WARNING

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 — CPG072XXX4B/ 7BXXX (460V/ 575V BELT DRIVE) (CONT.)



INSTALLER/SERVICEMAN

THE STATUS LIGHT ON THE FURNACE CONTROL MAY BE USED AS A GUIDE TO TROUBLESHOOTING THIS APPLIANCE. STATUS LIGHT CODES ARE AS FOLLOWS:

STATUS LIGHT	EQUIP. STATUS	CHECK
ON	NORMAL OPERATION	-
OFF	NO POWER OR INTERNAL CONTROL	CHECK INPUT POWER CHECK FUSE ON CONTROL REPLACE CONTROL
1 BLINK	IGNITION FAILURE OPEN ROLL OUT SWITCH OPEN AUX. LIMIT SWITCH	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR FLAME ROLL OUT BAD SWITCH AUX. LIMIT OPEN
2 BLINKS	PRESSURE SWITCH OPEN	CHECK PRESSURE SWITCH
3 BLINKS	PRESSURE SWITCH CLOSED WITHOUT INDUCER ON	CHECK PRESSURE SWITCH
4 BLINKS	OPEN LIMIT SWITCH	MAIN LIMIT OPEN BAD SWITCH
5 BLINKS	FALSE FLAME SENSED	STICKING GAS VALVE
6 BLINKS	COMPRESSOR OUTPUT DELAY	3 MIN. COMP. ANTI-CYCLE TIMER

COMPONENT LEGEND

ALS	AUXILLARY LIMIT SWITCH
BC	BLOWER CONTACTOR
COMP	COMPRESSOR
CM	CONDENSER MOTOR
C	CONTACTOR
EM	EVAPORATOR MOTOR
F	FUSE
FC	FAN CAPACITOR
FS	FLAME SENSOR
GND	EQUIPMENT GROUND
GV	GAS VALVE
HPS	HIGH PRESSURE SWITCH
IBR	INDOOR BLOWER RELAY
IIC	INTEGRATED IGNITION CONTROL
IGN	IGNITOR
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
PLF	FEMALE PLUG/CONNECTOR
PS	PRESSURE SWITCH
RS	ROLLOUT SWITCH
TB1	TERMINAL BLOCK (24V SIGNAL)
TR	TRANSFORMER
VM	VENT MOTOR
VMR	VENT MOTOR RELAY

NOTES

- REPLACEMENT WIRE MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL. (USE COPPER CONDUCTOR ONLY).
- ACCESSORY ECONOMIZER PLUG ADJACENT TO BLOWER HOUSING IN RETURN AIR COMPARTMENT. REMOVE MALE PLUG AND ATTACH FEMALE PLUG TO THE ECONOMIZER ACCESSORY.
- L1 AND L2 ON IIC CONTROL IS 24V INPUT.
- USE COPPER CONDUCTORS ONLY.
++ USE NEC CLASS 2 WIRE.

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

460-575/3/60 0140L00871 REV A

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
PK	PINK
PU	PURPLE
RD	RED
WH	WHITE
YL	YELLOW
BL/PK	BLUE WITH PINK STRIP
YL/PK	YELLOW WITH PINK STRIP

THERMOSTAT FIELD WIRING ++

NO ECONOMIZER

(W)	---	WH	---	W
(G)	---	GR	---	G
(R)	---	RD	---	R
(Y)	---	YL	---	Y
(Y/Y2)	---	BL	---	C
(C)	---	BL	---	C

TB1 STAT

WITH ECONOMIZER OPTION

(W)	---	WH	---	W
(G)	---	GR	---	G
(R)	---	RD	---	R
(Y)	---	YL	---	Y
(Y/Y2)	---	BL	---	C
(C)	---	BL	---	C

TB1 STAT

2 STAGE COOLING

(W)	---	WH	---	W
(G)	---	GR	---	G
(R)	---	RD	---	R
(Y)	---	YL	---	Y
(Y/Y2)	---	PK	---	Y2
(C)	---	BL	---	C

TB1 STAT

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.



ACCESSORIES

ITEM #	DESCRIPTION
14CURB3672B	Roof Curb 14" Tall
25FD3672	25% Manual Fresh Air Damper
25MFD3672	25% Motorized Fresh Air Damper
BRD3672	Horizontal Barometric Relief Damper
CDK36	Concentric Duct Kit
CDK4872	Concentric Duct Kit
DNECONGS3672B	Downflow Economizer with Barometric Relief
DNECONGS3672B-NR	Downflow Economizer without Barometric Relief
DNSQRRND36B	Downflow Square-to-Round Adapter 16" Round
DNSQRRND4872B	Downflow Square-to-Round Adapter 18" Round
DNBBS3672B	Burglar Bar Sleeves Includes Supply & Return
GHRC-1	Hurricane Restraint Clip
HAILGD04	Condenser Coil Hail Guard
HA-02	High-Altitude Kit
HSKT072B	High-Static Kit (230/460v)
HZECONGS3672B	Horizontal Economizer
LAKT01	Low-Ambient Kit
LPM-05	LP Conversion Kit
PE36722B	Power Exhaust 208/230v
PE36724B	Power Exhaust 460v

NOTES

