

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

**HEATING CAPACITY: 23,000 - 57,500 BTU/H**



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**Standard Features**

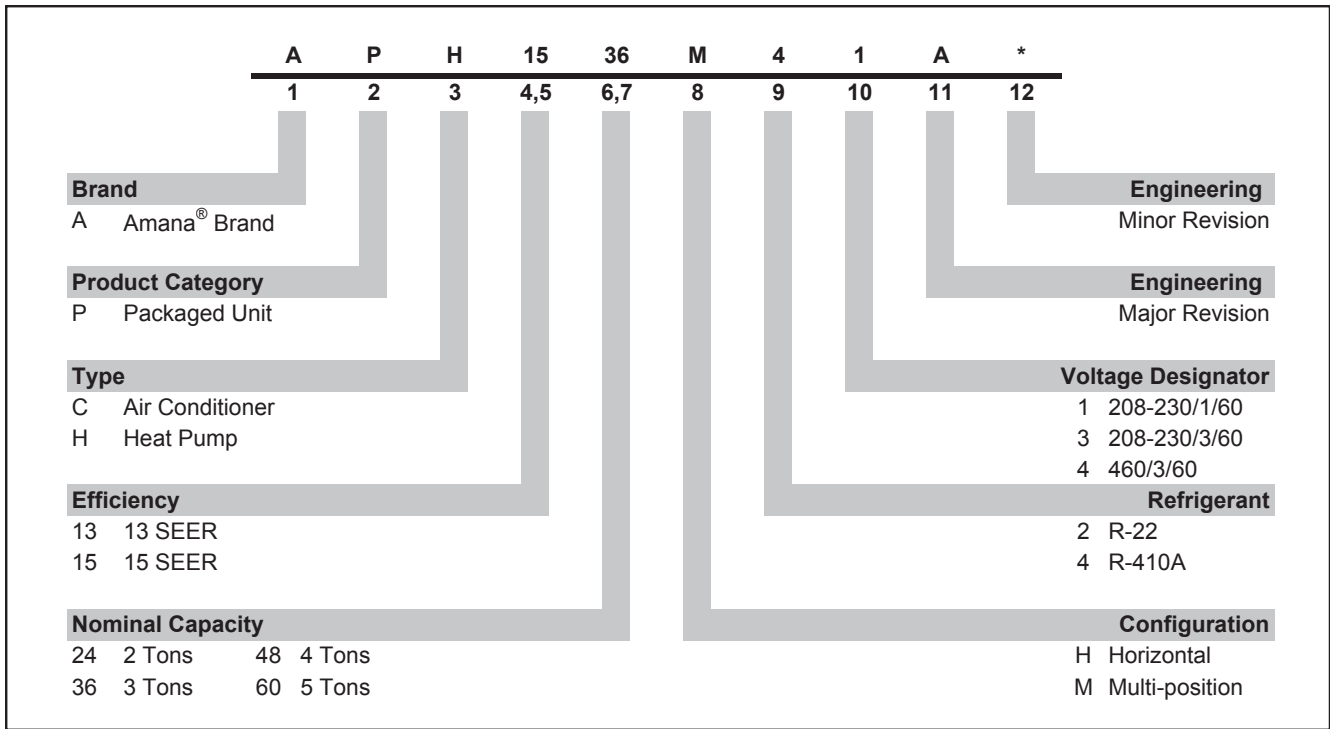
- Energy-efficient compressor with internal relief valve
- Two-stage cooling on 5-ton units
- Multi-speed ECM blower motor
- All-Aluminum evaporator coil
- Copper tube/ aluminum fin condenser coils
- Liquid-line filter drier
- Convertible airflow: horizontal or downflow
- Totally enclosed, permanently 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
- Compressor sound blanket
- Louvered condenser coil protection
- One footprint; two heights



\* Complete warranty details available from your local dealer or at [www.amana-hac.com](http://www.amana-hac.com). To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.



	APH14 24M41A*	APH14 30M41A*	APH14 36M41A*	APH14 42M41A*	APH14 48M41A*	APH14 60M41A*
<b>COOLING CAPACITY</b>						
Total BTU/h	24,000	28,600	34,400	41,000	48,000	58,000
Sensible BTU/h	18,700	21,700	26,000	29,500	36,500	42,300
SEER / EER	14/11	14/11	14/11	14/11	14/11	14/11
Decibels	76	76	81	80	79	80
AHRI #s	7470173	7470174	7470175	7470176	7470177	7470178
<b>HEATING CAPACITY</b>						
BTU/h (47°F)	23,000	28,000	33,200	40,600	45,600	57,500
C.O.P (47°F)	3.6	3.6	3.6	3.6	3.6	3.5
BUT/h (17°F)	12,600	17,000	19,000	23,000	27,000	31,200
C.O.P (17°F)	2.2	2.2	2.2	2.2	2.2	2.2
HSPF	8.0	8.0	8.0	8.0	8.0	8.0
<b>EVAPORATOR MOTOR</b>						
Type	EEM	EEM	EEM	EEM	EEM	EEM
Wheel (D x W)	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9
Nominal Cooling CFM	850	1,050	1,200	1,300	1,600	1,850
FLA	4.3 / --	4.3 / --	4.3 / --	5.8 / --	5.8 / --	7.6 / --
No. of Speeds	5	5	5	5	5	5
Horsepower - RPM	½ - 1,050	½ - 1,050	½ - 1,050	¾ - 1,050	¾ - 1,050	1 - 1,050
<b>EVAPORATOR COIL</b>						
Face Area (ft <sup>2</sup> )	4.55	4.55	4.55	4.55	6.20	6.20
Rows Deep/ Fin per Inch	4 / 14	4 / 14	4 / 14	4 / 14	4 / 14	4 / 14
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
R-410A Refrigerant Charge (oz.)	128	128	115	133	153	180
<b>CONDENSER FAN / COIL</b>						
Horsepower - RPM	¼ - 830	¼ - 830	¼ - 830	¼ - 1,075	¼ - 1,075	⅓ - 1,075
FLA/LRA	1.5 / 3.0	1.5 / 3.0	1.4 / 3.0	1.4 / 2.9	1.4 / 2.9	2.5 / 3.0
Fan Diameter / # Fan Blades	22 / 3	22 / 3	22 / 4	22 / 3	22 / 3	22 / 3
Face Area (ft <sup>2</sup> )	12.21	12.21	12.21	12.21	15.30	21.32
Rows Deep/ Fin per Inch	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16
<b>COMPRESSOR</b>						
Quantity	1	1	1	1	1	1
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Stage	Single	Single	Single	Single	Single	2 Stage
<b>ELECTRICAL DATA</b>						
Voltage/ Phase (60 Hz)	208-230/1	208-230/1	208-230/1	208-230/1	208-230/1	208-230/1
Compressor RLA/ LRA	12.8 / 58.3	14.1 / 73	16.7 / 79	17.9 / 112	21.8 / 117	27.1 / 152.9
Total Unit Amps	18.6	19.9	22.4	25.1	29	37.2
Min. Circuit Ampacity <sup>1</sup>	21.8	23.4	26.6	29.6	34.5	44.0
Max. Overcurrent Protection <sup>2</sup>	30 amps	35 amps	40 amps	45 amps	50 amps	70 amps
<b>SHIPPING WEIGHT (LBS)</b>	380	390	400	410	485	495

<sup>1</sup> Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

<sup>2</sup> 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	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
70	950	MBh	23.2	24.0	26.3	-	22.6	23.5	25.7	-	22.1	22.9	25.1	-	21.6	22.3	24.5	-	20.5	21.2	23.3	-	19.0	19.7	21.5	-
		S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.85	0.71	0.49	-	0.89	0.74	0.51	-	0.89	0.75	0.52	-
		ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		kW	1.55	1.58	1.63	-	1.67	1.70	1.75	-	1.77	1.81	1.87	-	1.86	1.90	1.96	-	1.94	1.98	2.05	-	2.01	2.05	2.12	-
		Amps	6.9	7.0	7.2	-	7.3	7.5	7.7	-	7.9	8.0	8.2	-	8.3	8.5	8.7	-	8.7	8.9	9.2	-	9.2	9.4	9.7	-
	850	HI PR	226	243	257	-	254	273	288	-	288	310	328	-	329	354	373	-	370	398	420	-	408	439	464	-
		LO PR	113	120	131	-	119	127	139	-	124	132	144	-	130	139	151	-	137	145	159	-	141	150	164	-
		MBh	22.8	23.7	25.9	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	21.2	22.0	24.1	-	20.2	20.9	22.9	-	18.7	19.4	21.2	-
		S/T	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-
		ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
750	kW	1.54	1.57	1.62	-	1.66	1.69	1.75	-	1.76	1.80	1.86	-	1.85	1.89	1.95	-	1.93	1.97	2.03	-	1.99	2.04	2.11	-	
	Amps	6.9	7.0	7.2	-	7.3	7.4	7.6	-	7.8	8.0	8.2	-	8.3	8.4	8.7	-	8.7	8.9	9.1	-	9.1	9.3	9.6	-	
	HI PR	224	242	255	-	252	271	286	-	286	308	326	-	326	351	371	-	367	395	417	-	406	436	461	-	
	LO PR	112	119	130	-	119	126	138	-	123	131	143	-	129	138	150	-	136	144	158	-	140	149	163	-	
	MBh	21.7	22.5	24.6	-	21.2	22.0	24.1	-	20.7	21.4	23.5	-	20.2	20.9	22.9	-	19.2	19.9	21.8	-	17.8	18.4	20.2	-	

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
75	950	MBh	23.6	24.3	26.3	28.2	23.0	23.7	25.7	27.5	22.5	23.1	25.0	26.9	21.9	22.6	24.4	26.2	20.8	21.4	23.2	24.9	19.3	19.9	21.5	23.1
		S/T	0.89	0.79	0.60	0.4	0.92	0.82	0.62	0.4	0.94	0.84	0.64	0.4	0.97	0.87	0.66	0.4	1.00	0.90	0.68	0.4	1.00	0.91	0.69	0.4
		ΔT	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	20	19	15	11	19	17	14	9.9
		kW	1.56	1.59	1.64	1.7	1.68	1.71	1.77	1.8	1.78	1.82	1.88	1.9	1.88	1.92	1.98	2.0	1.95	2.00	2.06	2.1	2.02	2.07	2.14	2.2
		Amps	6.9	7.1	7.3	7.5	7.4	7.5	7.7	8.0	7.9	8.1	8.3	8.6	8.4	8.5	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.7	10.1
	850	HI PR	228	246	259	270.6	256	276	291	303.7	291	314	331	345.4	332	357	377	393.4	373	402	424	442.5	413	444	469	488.9
		LO PR	114	121	133	141.2	121	128	140	149.2	125	133	146	155.1	132	140	153	162.9	138	147	160	170.7	143	152	166	176.6
		MBh	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	21.6	22.2	24.1	25.8	20.5	21.1	22.9	24.5	19.0	19.6	21.2	22.7
		S/T	0.85	0.76	0.57	0.4	0.88	0.79	0.59	0.4	0.90	0.81	0.61	0.4	0.93	0.83	0.63	0.4	0.97	0.86	0.65	0.4	0.97	0.87	0.66	0.4
		ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10.4
750	kW	1.55	1.58	1.63	1.7	1.67	1.71	1.76	1.8	1.77	1.81	1.87	1.9	1.87	1.91	1.97	2.0	1.94	1.99	2.05	2.1	2.01	2.06	2.12	2.2	
	Amps	6.9	7.0	7.2	7.4	7.4	7.5	7.7	7.9	7.9	8.0	8.3	8.5	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	9.2	9.4	9.7	10.0	
	HI PR	227	244	258	268.7	254	274	289	301.6	289	311	329	343.0	330	355	375	390.6	371	399	421	439.4	410	441	466	485.5	
	LO PR	113	121	132	140.3	120	127	139	148.2	125	132	145	154.0	131	139	152	161.8	137	146	159	169.5	142	151	165	175.4	
	MBh	22.1	22.7	24.6	26.4	21.5	22.2	24.0	25.8	21.0	21.7	23.4	25.2	20.5	21.1	22.9	24.5	19.5	20.1	21.7	23.3	18.1	18.6	20.1	21.6	

IDB: Entering Indoor Dry Bulb Temperature  
 High & low pressures are measured at the liquid & suction access fittings.  
 Shaded area reflects ACCA (TVA) conditions  
 kW = Total system power  
 Amps = outdoor unit amps (comp. + fans)

		OUTDOOR AMBIENT TEMPERATURE																				
		65°F			75°F			85°F			95°F			105°F			115°F					
IDB	AIRFLOW	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
		ENTERING INDOOR WET BULB TEMPERATURE																				
		85°F																				
		75°F																				
		65°F																				
80	MBh	24.0	24.5	26.2	28.0	23.4	23.9	25.6	27.3	22.9	23.4	25.0	26.7	22.3	22.8	24.4	26.0	21.2	21.7	23.1	24.7	
	S/T	0.97	0.91	0.74	0.6	1.00	0.94	0.77	0.6	1.00	0.97	0.79	0.6	1.00	1.00	0.81	0.6	1.00	1.00	0.84	0.6	
	ΔT	23	22	19	15	23	22	19	15	22	22	19	15	22	22	19	15	21	21	19	15	
	kW	1.57	1.61	1.66	1.7	1.69	1.73	1.78	1.8	1.80	1.84	1.90	2.0	1.89	1.93	2.00	2.1	1.97	2.01	2.08	2.2	
	Amps	7.0	7.1	7.3	7.5	7.4	7.6	7.8	8.0	8.0	8.1	8.4	8.6	8.4	8.6	8.8	9.1	8.9	9.1	9.3	9.6	
	HI PR	231	248	262	273.4	259	279	294	306.7	294	317	334	348.9	335	361	381	397.3	377	406	429	447.0	
	LO PR	115	123	134	142.7	122	130	142	150.7	127	135	147	156.7	133	142	155	164.6	139	148	162	172.4	
			23.6	24.1	25.8	27.6	23.1	23.6	25.2	26.9	22.5	23.0	24.6	26.3	22.0	22.5	24.0	25.7	20.9	21.3	22.8	24.4
			0.93	0.87	0.71	0.5	0.96	0.90	0.74	0.5	0.99	0.93	0.75	0.6	1.00	0.96	0.78	0.6	1.00	0.99	0.81	0.6
		24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	21	21	20	16	
		1.56	1.60	1.65	1.7	1.68	1.72	1.77	1.8	1.79	1.83	1.89	1.9	1.88	1.92	1.99	2.1	1.96	2.00	2.07	2.1	
		7.0	7.1	7.3	7.5	7.4	7.6	7.8	8.0	7.9	8.1	8.3	8.6	8.4	8.6	8.8	9.1	8.8	9.0	9.3	9.6	
		229	246	260	271.5	257	277	292	304.6	292	315	332	346.4	333	358	378	394.6	375	403	426	443.9	
		115	122	133	141.7	121	129	141	149.7	126	134	146	155.6	132	141	153	163.4	138	147	161	171.3	
		22.5	22.9	24.5	26.2	21.9	22.4	23.9	25.6	21.4	21.9	23.4	25.0	20.9	21.3	22.8	24.4	19.8	20.3	21.7	23.2	
		0.89	0.84	0.68	0.5	0.92	0.87	0.70	0.5	0.95	0.89	0.72	0.5	0.98	0.92	0.75	0.6	1.01	0.95	0.77	0.6	
		25	24	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	
		1.54	1.57	1.62	1.7	1.66	1.69	1.75	1.8	1.76	1.80	1.86	1.9	1.85	1.89	1.95	2.0	1.93	1.97	2.03	2.1	
		6.9	7.0	7.2	7.4	7.3	7.4	7.6	7.9	7.8	8.0	8.2	8.4	8.3	8.4	8.7	8.9	8.7	8.9	9.1	9.4	
		224	242	255	266.0	252	271	286	298.5	286	308	326	339.5	326	351	371	386.7	367	395	417	435.0	
		112	119	130	138.8	119	126	138	146.7	123	131	143	152.5	129	138	150	160.1	136	144	158	167.8	

85	MBh	24.4	24.9	26.1	27.8	23.8	24.3	25.5	27.2	23.3	23.7	24.8	26.5	22.7	23.1	24.2	25.9	21.6	22.0	23.0	24.6	
	S/T	1.00	0.98	0.89	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.94	0.8	1.00	1.00	0.97	0.8	1.00	1.00	0.97	0.8	
	ΔT	24	24	22	19	23	24	23	20	23	23	23	20	22	22	23	20	21	21	22	19	
	kW	1.59	1.62	1.67	1.7	1.71	1.74	1.80	1.9	1.81	1.85	1.91	2.0	1.91	1.95	2.01	2.1	1.99	2.03	2.10	2.2	
	Amps	7.0	7.2	7.4	7.6	7.5	7.7	7.9	8.1	8.0	8.2	8.4	8.7	8.5	8.7	8.9	9.2	9.0	9.1	9.4	9.7	
	HI PR	233	251	265	276.1	261	281	297	309.8	297	320	338	352.3	339	364	385	401.3	381	410	433	451.5	
	LO PR	116	124	135	144.1	123	131	143	152.2	128	136	149	158.2	134	143	156	166.2	141	150	164	174.2	
			23.5	23.9	25.1	26.8	23.5	23.9	25.1	26.8	22.9	23.4	24.5	26.1	22.4	22.8	23.9	25.5	21.2	21.7	22.7	24.2
			0.98	0.94	0.85	0.7	1.00	0.98	0.88	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.93	0.8	1.00	1.00	0.97	0.8
		25	25	24	20	25	25	24	21	25	25	24	21	24	25	24	21	23	23	24	21	
		1.58	1.61	1.66	1.7	1.70	1.73	1.79	1.8	1.80	1.84	1.90	2.0	1.90	1.94	2.00	2.1	1.98	2.02	2.09	2.2	
		7.0	7.1	7.3	7.6	7.5	7.6	7.8	8.1	8.0	8.2	8.4	8.6	8.5	8.6	8.9	9.2	8.9	9.1	9.4	9.7	
		231	249	263	274.2	260	279	295	307.7	295	318	335	349.9	336	362	382	398.5	378	407	430	448.3	
		116	123	134	143.1	122	130	142	151.2	127	135	148	157.1	133	142	155	165.0	140	149	162	173.0	
		22.8	23.3	24.4	26.0	22.3	22.7	23.8	25.4	21.8	22.2	23.3	24.8	21.2	21.7	22.7	24.2	20.2	20.6	21.6	23.0	
		0.93	0.90	0.81	0.7	0.97	0.93	0.84	0.7	0.99	0.96	0.86	0.7	1.00	0.99	0.89	0.7	1.00	1.00	0.93	0.8	
		26	26	24	21	26	26	25	21	27	26	25	21	26	26	25	21	25	25	24	21	
		1.55	1.58	1.63	1.7	1.67	1.71	1.76	1.8	1.77	1.81	1.87	1.9	1.87	1.91	1.97	2.0	1.94	1.99	2.05	2.1	
		6.9	7.0	7.2	7.4	7.4	7.5	7.7	7.9	7.9	8.0	8.3	8.5	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	
		227	244	258	268.7	254	274	289	301.5	289	311	329	342.9	330	355	374	390.5	371	399	421	439.4	
		113	121	132	140.2	120	127	139	148.2	124	132	145	154.0	131	139	152	161.7	137	146	159	169.5	

IDB: Entering Indoor Dry Bulb Temperature  
 High & low pressures are measured at the liquid & suction access fittings.  
 Shaded area reflects AHRl (TVA) conditions  
 kW = Total system power  
 Amps = outdoor unit amps (comp. + fans)





	OUTDOOR AMBIENT TEMPERATURE																									
	65°F			75°F			85°F			95°F			105°F			115°F										
	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71						
<b>70</b>	IDB AIRFLOW	MBh	33.7	34.9	38.3	-	32.9	34.1	37.4	-	32.1	33.3	36.5	-	31.4	32.5	35.6	-	29.8	30.9	33.8	-	27.6	28.6	31.3	-
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.73	0.51	-
	$\Delta T$	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-	
	kW	2.35	2.40	2.47	-	2.53	2.58	2.67	-	2.69	2.75	2.84	-	2.83	2.89	2.99	-	2.95	3.02	3.12	-	3.05	3.12	3.23	-	
	Amps	10.4	10.6	10.9	-	11.1	11.3	11.6	-	11.9	12.2	12.5	-	12.6	12.9	13.2	-	13.3	13.6	14.0	-	14.0	14.3	14.7	-	
	HI PR	242	260	275	-	271	292	308	-	309	332	351	-	351	378	399	-	395	426	449	-	437	470	496	-	
LO PR	111	118	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	139	148	162	-		
<b>75</b>	IDB AIRFLOW	MBh	30.2	31.3	34.3	-	29.5	30.6	33.5	-	28.8	29.9	32.7	-	28.1	29.1	31.9	-	26.7	27.7	30.3	-	24.7	25.6	28.1	-
		S/T	0.70	0.58	0.41	-	0.73	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.67	0.46	-	0.80	0.67	0.47	-
	$\Delta T$	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	
	kW	2.28	2.32	2.40	-	2.45	2.50	2.58	-	2.60	2.66	2.75	-	2.74	2.80	2.89	-	2.85	2.92	3.01	-	2.95	3.02	3.12	-	
	Amps	10.1	10.3	10.6	-	10.8	11.0	11.3	-	11.5	11.8	12.1	-	12.2	12.5	12.8	-	12.9	13.2	13.5	-	13.5	13.8	14.2	-	
	HI PR	232	250	264	-	261	280	296	-	296	319	337	-	338	363	384	-	380	409	432	-	420	452	477	-	
LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-		
<b>75</b>	IDB AIRFLOW	MBh	34.3	35.3	38.2	41.0	33.5	34.5	37.3	40.0	32.7	33.7	36.4	39.1	31.9	32.8	35.5	38.1	30.3	31.2	33.8	36.2	28.1	28.9	31.3	33.6
		S/T	0.87	0.77	0.59	0.4	0.90	0.80	0.61	0.4	0.92	0.82	0.62	0.4	0.95	0.85	0.64	0.4	0.99	0.88	0.67	0.4	0.99	0.89	0.67	0.4
	$\Delta T$	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	21	19	15	11	20	19	17	14	
	kW	2.37	2.42	2.50	2.6	2.55	2.61	2.69	2.8	2.71	2.77	2.86	3.0	2.86	2.92	3.01	3.1	2.98	3.04	3.14	3.3	3.08	3.15	3.26	3.4	
	Amps	10.5	10.7	11.0	11.3	11.2	11.4	11.7	12.1	12.0	12.2	12.6	13.0	12.7	13.0	13.4	13.8	13.4	13.7	14.1	14.6	14.1	14.4	14.8	15.4	
	HI PR	244	263	278	289.5	274	295	311	324.9	312	335	354	369.5	355	382	403	420.8	399	430	454	473.4	441	475	502	523.1	
LO PR	112	120	131	139.0	119	126	138	146.9	123	131	143	152.7	130	138	151	160.4	136	145	158	168.1	141	150	163	173.8		
<b>75</b>	IDB AIRFLOW	MBh	33.3	34.3	37.1	39.8	32.5	33.5	36.2	38.9	31.7	32.7	35.4	38.0	31.0	31.9	34.5	37.0	29.4	30.3	32.8	35.2	27.2	28.1	30.4	32.6
		S/T	0.83	0.74	0.56	0.4	0.86	0.77	0.58	0.4	0.88	0.78	0.59	0.4	0.91	0.81	0.61	0.4	0.94	0.84	0.64	0.4	0.95	0.85	0.64	0.4
	$\Delta T$	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	20	16	11	20	18	15	10.3	
	kW	2.35	2.40	2.48	2.6	2.53	2.59	2.67	2.8	2.69	2.75	2.84	2.9	2.83	2.89	2.99	3.1	2.95	3.02	3.12	3.2	3.05	3.12	3.23	3.3	
	Amps	10.4	10.6	10.9	11.2	11.1	11.3	11.6	12.0	11.9	12.2	12.5	12.9	12.6	12.9	13.2	13.7	13.3	13.6	14.0	14.5	14.0	14.3	14.7	15.2	
	HI PR	242	260	275	286.7	271	292	308	321.7	309	332	351	365.8	352	378	399	416.7	396	426	449	468.8	437	470	497	517.9	
LO PR	111	118	129	137.7	118	125	137	145.4	122	130	142	151.2	128	137	149	158.8	135	143	156	166.4	139	148	162	172.1		
<b>75</b>	IDB AIRFLOW	MBh	30.7	31.6	34.2	36.7	30.0	30.9	33.4	35.9	29.3	30.2	32.6	35.0	28.6	29.4	31.8	34.2	27.1	28.0	30.3	32.5	25.1	25.9	28.0	30.1
		S/T	0.80	0.71	0.54	0.3	0.83	0.74	0.56	0.4	0.85	0.76	0.57	0.4	0.87	0.78	0.59	0.4	0.91	0.81	0.61	0.4	0.91	0.82	0.62	0.4
	$\Delta T$	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	19	15	10.5	
	kW	2.29	2.34	2.42	2.5	2.47	2.52	2.60	2.7	2.62	2.68	2.77	2.9	2.76	2.82	2.91	3.0	2.88	2.94	3.04	3.1	2.98	3.04	3.15	3.3	
	Amps	10.2	10.4	10.6	11.0	10.8	11.1	11.4	11.7	11.6	11.9	12.2	12.6	12.3	12.6	12.9	13.3	13.0	13.3	13.6	14.1	13.7	14.0	14.4	14.8	
	HI PR	235	252	267	278.1	263	283	299	312.0	299	322	340	354.9	341	367	388	404.2	384	413	436	454.7	424	456	482	502.4	
LO PR	108	115	125	133.5	114	121	132	141.1	119	126	138	146.6	125	132	145	154.0	130	139	152	161.4	135	144	157	167.0		

IDB: Entering Indoor Dry Bulb Temperature  
 High & low pressures are measured at the liquid & suction access fittings.  
 Shaded area reflects ACCA (TVA) conditions  
 kW = Total system power  
 Amps = outdoor unit amps (comp.+ fans)











IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																							
		65°F				75°F				85°F				95°F				105°F				115°F			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
	MBh	48.7	49.7	53.1	56.8	47.6	48.6	51.9	55.5	46.4	47.4	50.7	54.2	45.3	46.3	49.4	52.9	43.0	44.0	47.0	50.2	39.9	40.7	43.5	46.5
	S/T	0.95	0.89	0.72	0.5	1.00	0.92	0.75	0.6	1.00	0.94	0.77	0.6	1.00	1.00	0.79	0.6	1.00	1.00	0.82	0.6	1.00	1.00	0.83	0.6
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	23	24	20	16	22	22	20	16	20	21	18	14.7
<b>1800</b>	kW	3.27	3.34	3.45	3.6	3.53	3.61	3.72	3.8	3.75	3.84	3.96	4.1	3.95	4.04	4.17	4.3	4.12	4.21	4.35	4.5	4.27	4.36	4.51	4.7
	Amps	13.8	14.1	14.5	15.0	14.8	15.2	15.6	16.1	16.0	16.3	16.8	17.4	17.0	17.4	17.9	18.5	18.0	18.4	19.0	19.6	19.0	19.4	20.0	20.7
	HI PR	255	274	289	301.8	286	307	325	338.6	325	350	369	385.1	370	398	421	438.6	416	448	473	493.5	460	495	523	545.2
	LO PR	113	120	131	139.7	119	127	139	147.6	124	132	144	153.4	130	139	151	161.2	137	145	159	168.9	141	150	164	174.7
<b>80</b>	MBh	47.3	48.3	51.6	55.2	46.2	47.2	50.4	53.9	45.1	46.1	49.2	52.6	44.0	44.9	48.0	51.3	41.8	42.7	45.6	48.7	38.7	39.5	42.2	45.2
	S/T	0.90	0.85	0.69	0.5	0.93	0.88	0.71	0.5	0.96	0.90	0.73	0.5	0.99	0.93	0.76	0.6	1.00	0.96	0.78	0.6	1.00	0.97	0.79	0.6
	ΔT	25	23	20	16	25	24	21	17	25	24	21	17	25	24	21	17	24	24	21	16	22	22	19	15.3
	kW	3.25	3.32	3.42	3.5	3.50	3.58	3.69	3.8	3.72	3.81	3.93	4.1	3.92	4.01	4.14	4.3	4.09	4.18	4.32	4.5	4.23	4.33	4.47	4.6
	Amps	13.7	14.0	14.4	14.9	14.7	15.0	15.5	16.0	15.9	16.2	16.7	17.3	16.8	17.2	17.7	18.4	17.8	18.2	18.8	19.5	18.8	19.2	19.8	20.5
	HI PR	252	271	286	298.8	283	304	321	335.3	322	346	366	381.3	366	394	416	434.3	412	444	468	488.6	455	490	518	539.8
	LO PR	112	119	130	138.3	118	126	137	146.2	123	131	143	151.9	129	137	150	159.6	135	144	157	167.2	140	149	162	173.0
	LO PR	108	115	126	134.2	115	122	133	141.8	119	127	138	147.4	125	133	145	154.8	131	140	152	162.2	136	144	158	167.8

<b>85</b>	MBh	49.5	50.5	52.9	56.4	48.4	49.3	51.7	55.1	47.2	48.1	50.4	53.8	46.1	47.0	49.2	52.5	43.8	44.6	46.7	49.9	40.5	41.3	43.3	46.2
	S/T	0.99	0.96	0.86	0.7	1.00	0.99	0.89	0.7	1.00	1.00	0.92	0.7	1.00	1.00	0.95	0.8	1.00	1.00	0.98	0.8	1.00	1.00	0.99	0.8
	ΔT	25	25	23	20	25	25	24	20	24	25	24	20	24	24	24	21	22	23	23	20	21	21	22	19.0
	kW	3.30	3.37	3.48	3.6	3.56	3.64	3.75	3.9	3.79	3.87	4.00	4.1	3.99	4.07	4.21	4.4	4.16	4.25	4.39	4.5	4.30	4.40	4.55	4.7
	Amps	13.9	14.2	14.7	15.1	14.9	15.3	15.7	16.3	16.1	16.5	17.0	17.6	17.1	17.5	18.0	18.7	18.1	18.5	19.1	19.8	19.1	19.6	20.2	20.9
	HI PR	257	277	292	304.8	289	311	328	342.0	328	353	373	389.0	374	402	425	443.0	421	453	478	498.4	465	500	528	550.7
	LO PR	114	121	133	141.1	121	128	140	149.1	125	133	146	155.0	132	140	153	162.8	138	147	160	170.6	143	152	166	176.5
	LO PR	108	115	126	134.2	115	122	133	141.8	119	127	138	147.4	125	133	145	154.8	131	140	152	162.2	136	144	158	167.8
<b>1800</b>	MBh	48.1	49.0	51.3	54.8	47.0	47.9	50.1	53.5	45.9	46.7	49.0	52.2	44.7	45.6	47.8	51.0	42.5	43.3	45.4	48.4	39.4	40.1	42.0	44.8
	S/T	0.95	0.91	0.82	0.7	0.98	0.95	0.85	0.7	1.00	0.97	0.88	0.7	1.00	1.00	0.90	0.7	1.00	1.00	0.94	0.8	1.00	1.00	0.95	0.8
	ΔT	26	26	24	21	26	26	25	21	26	26	25	21	26	26	25	21	24	25	24	21	23	23	23	19.8
	kW	3.27	3.34	3.45	3.6	3.53	3.61	3.72	3.8	3.75	3.84	3.96	4.1	3.95	4.04	4.17	4.3	4.12	4.21	4.35	4.5	4.27	4.36	4.51	4.7
	Amps	13.8	14.1	14.5	15.0	14.8	15.2	15.6	16.1	16.0	16.3	16.8	17.4	17.0	17.4	17.9	18.5	18.0	18.4	19.0	19.6	19.0	19.4	20.0	20.7
	HI PR	255	274	289	301.8	286	307	325	338.6	325	350	369	385.1	370	398	421	438.6	416	448	473	493.5	460	495	523	545.2
	LO PR	113	120	131	139.7	119	127	139	147.6	124	132	144	153.4	130	139	151	161.2	137	145	159	168.9	141	150	164	174.7
	LO PR	108	115	126	134.2	115	122	133	141.8	119	127	138	147.4	125	133	145	154.8	131	140	152	162.2	136	144	158	167.8

IDB: Entering Indoor Dry Bulb Temperature  
 High & low pressures are measured at the liquid & suction access fittings.  
 Shaded area reflects AHRI (TVA) conditions  
 kW = Total system power  
 Amps = outdoor unit amps (comp.+ fans)

IDB	OUTDOOR AMBIENT TEMPERATURE																		115°F													
	65°F						75°F						85°F							95°F						105°F						
	AIRFLOW			2080			1850			1620			2080			1850				1620			2080			1850			1620			
	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	59	63	67	71
MBh	56.8	58.9	64.5	-	55.5	57.5	63.0	-	54.2	56.2	61.5	-	52.9	54.8	60.0	-	50.2	52.1	57.0	-	46.5	48.2	52.8	-	51.1	52.6	56.9	61.1	47.3	48.7	52.7	56.6
S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.49	-	0.90	0.81	0.61	0.4	0.91	0.81	0.62	0.4
ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	21	20	16	11	21	20	16	11
kW	4.07	4.16	4.29	-	4.39	4.49	4.64	-	4.68	4.74	4.94	-	4.89	5.00	5.17	-	5.10	5.22	5.40	-	5.33	5.45	5.64	-	5.15	5.26	5.44	5.7	5.15	5.27	5.45	5.9
Amps	6.2	6.6	7.2	-	7.6	8.0	8.6	-	9.1	9.6	10.2	-	10.4	10.9	11.6	-	11.7	12.3	13.0	-	13.1	13.6	14.4	-	12.0	12.5	13.3	14.2	12.0	12.5	13.3	14.2
HI PR	258	277	293	-	289	311	329	-	329	354	374	-	375	403	426	-	421	453	479	-	466	501	529	-	421	454	479	499.5	421	454	479	499.5
LO PR	107	114	124	-	113	120	131	-	118	125	137	-	118	125	137	-	120	128	138	-	134	143	156	-	130	138	150	161.8	130	138	150	161.8
MBh	55.2	57.2	62.7	-	53.9	55.9	61.2	-	52.6	54.5	59.7	-	51.3	53.2	58.3	-	48.8	50.5	55.4	-	45.2	46.8	51.3	-	45.0	46.7	51.1	54.9	41.7	43.2	47.3	54.9
S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-	0.86	0.78	0.61	0.4	0.87	0.78	0.62	0.4
ΔT	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-	21	20	16	11	21	20	16	11
kW	4.04	4.12	4.26	-	4.36	4.45	4.60	-	4.64	4.74	4.90	-	4.89	5.00	5.17	-	5.10	5.22	5.40	-	5.28	5.41	5.59	-	5.15	5.26	5.44	5.7	5.15	5.27	5.45	5.9
Amps	6.1	6.5	7.0	-	7.4	7.8	8.4	-	8.9	9.4	10.0	-	10.2	10.7	11.4	-	11.5	12.1	12.8	-	12.8	13.4	14.2	-	10.9	11.5	12.2	13.1	10.9	11.5	12.2	13.1
HI PR	255	275	290	-	286	308	325	-	326	350	370	-	371	399	421	-	417	449	474	-	461	496	524	-	421	454	479	499.5	421	454	479	499.5
LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-	128	136	149	161.8	128	136	149	161.8
MBh	50.9	52.8	57.8	-	49.7	51.6	56.5	-	48.6	50.3	55.1	-	47.4	49.1	53.8	-	45.0	46.7	51.1	-	41.7	43.2	47.3	-	45.0	46.7	51.1	54.9	41.7	43.2	47.3	54.9
S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.77	0.64	0.45	-	0.86	0.78	0.61	0.4	0.87	0.78	0.62	0.4
ΔT	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	21	20	16	11	21	20	16	11
kW	3.94	4.02	4.15	-	4.25	4.34	4.48	-	4.52	4.62	4.78	-	4.76	4.87	5.04	-	4.97	5.08	5.26	-	5.15	5.27	5.45	-	5.15	5.26	5.44	5.7	5.15	5.27	5.45	5.9
Amps	5.7	6.0	6.6	-	6.9	7.3	7.9	-	8.4	8.9	9.5	-	9.7	10.2	10.8	-	10.9	11.5	12.2	-	12.2	12.8	13.5	-	10.9	11.5	12.2	13.1	10.9	11.5	12.2	13.1
HI PR	247	266	281	-	278	299	316	-	316	340	359	-	360	387	409	-	405	435	460	-	447	481	508	-	421	454	479	499.5	421	454	479	499.5
LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-	124	132	144	161.8	124	132	144	161.8

kW = Total system power  
 Amps = outdoor unit amps (comp.+ fans)  
 Shaded area reflects ACCA (TVA) conditions  
 IDB: Entering Indoor Dry Bulb Temperature  
 High & low pressures are measured at the liquid & suction access fittings.



**APH1424M41A\***

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.9	27.4	25.8	24.1	23.0	22.3	20.7	19.1	15.7	14.5	13.3	12.6	12.1	10.9	9.7	8.4	7.2	5.9
T/R	31.5	29.8	28.1	26.2	25.1	24.3	22.5	20.8	17.1	15.8	14.5	13.7	13.2	11.9	10.5	9.2	7.8	6.4
kW	1.90	1.87	1.83	1.79	1.77	1.75	1.72	1.68	1.70	1.66	1.62	1.60	1.58	1.55	1.51	1.47	1.43	1.39
Amps	10.1	9.4	8.9	8.5	8.2	8.1	7.7	7.4	7.1	6.9	6.6	6.5	6.4	6.1	5.8	5.6	5.2	4.8
COP	4.45	4.29	4.12	3.93	3.80	3.72	3.53	3.32	2.70	2.55	2.41	2.30	2.24	2.06	1.87	1.68	1.47	1.24
HI PR	377	361	347	332	324	318	306	293	281	269	258	252	247	238	229	219	211	204
LO PR	139	129	121	111	105	101	92	82	74	66	58	54	52	44	38	32	28	22

**APH1430M41A\***

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	35.2	33.3	31.4	29.3	28.0	27.1	25.2	23.2	18.7	17.3	15.9	15.0	14.4	13.0	11.5	10.0	8.6	7.0
T/R	31.0	29.4	27.7	25.9	24.7	23.9	22.2	20.5	16.5	15.2	14.0	13.2	12.7	11.4	10.1	8.8	7.5	6.2
kW	2.36	2.31	2.26	2.21	2.19	2.17	2.12	2.07	2.05	2.00	1.95	1.93	1.91	1.86	1.81	1.77	1.72	1.67
Amps	5.6	5.4	5.1	4.9	4.8	4.8	4.6	4.5	4.3	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.5	3.4
COP	4.37	4.22	4.06	3.87	3.75	3.66	3.48	3.28	2.67	2.52	2.38	2.28	2.22	2.04	1.86	1.66	1.46	1.23
HI PR	385	370	355	340	332	325	313	300	288	275	264	257	253	243	234	224	216	209
LO PR	138	128	120	110	104	100	92	82	74	66	58	54	52	44	38	32	28	22

**APH1436M41A\***

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	41.7	39.5	37.2	34.8	33.2	32.2	29.9	27.6	23.7	21.9	20.1	19.0	18.3	16.4	14.6	12.7	10.8	8.9
T/R	32.2	30.5	28.7	26.8	25.6	24.8	23.1	21.3	18.3	16.9	15.5	14.7	14.1	12.7	11.2	9.8	8.4	6.8
kW	2.76	2.71	2.66	2.60	2.57	2.55	2.49	2.44	2.53	2.47	2.41	2.38	2.36	2.30	2.24	2.18	2.13	2.07
Amps	7.0	6.6	6.4	6.1	6.0	5.9	5.7	5.5	5.4	5.2	5.1	5.0	5.0	4.9	4.7	4.5	4.4	4.2
COP	4.42	4.27	4.10	3.91	3.78	3.70	3.51	3.30	2.74	2.59	2.44	2.34	2.27	2.09	1.90	1.70	1.49	1.26
HI PR	391	375	361	345	337	330	318	305	292	279	268	261	257	247	237	228	220	212
LO PR	134	125	117	107	101	97	90	80	72	64	57	53	51	43	37	31	27	21

**Notes**

Above information is for nominal CFM and 70-degree indoor dry bulb. Instantaneous capacity listed.

High pressure is measured at the liquid line access fitting.

Low pressure is measured at the compressor suction access fitting.

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

kW = Total system power



**APH1442M41A\***

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	50.9	48.2	45.4	42.4	40.5	39.2	36.5	33.6	28.0	25.9	23.8	22.5	21.7	19.4	17.2	15.0	12.8	10.5
T/R	36.3	34.3	32.3	30.2	28.8	28.0	26.0	23.9	20.0	18.4	17.0	16.0	15.4	13.8	12.3	10.7	9.1	7.5
kW	3.49	3.42	3.35	3.28	3.24	3.21	3.15	3.08	3.00	2.93	2.86	2.82	2.79	2.72	2.65	2.58	2.51	2.45
Amps	18.9	17.7	16.7	15.8	15.3	15.0	14.3	13.7	13.2	12.7	12.2	11.9	11.8	11.3	10.6	10.1	9.5	8.8
COP	4.26	4.12	3.96	3.78	3.65	3.57	3.39	3.20	2.74	2.59	2.44	2.34	2.27	2.09	1.90	1.70	1.49	1.26
HI PR	406	389	374	358	349	343	329	316	303	289	278	271	266	256	246	236	228	220
LO PR	134	124	117	107	101	97	89	80	72	64	56	52	51	43	37	31	27	21

**APH1448M41A\***

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	57.3	54.3	51.1	47.7	45.6	44.2	41.0	37.8	33.0	30.5	28.1	26.5	25.5	22.9	20.3	17.7	15.1	12.4
T/R	33.2	31.4	29.6	27.6	26.4	25.6	23.8	21.9	19.1	17.6	16.2	15.3	14.8	13.3	11.7	10.2	8.7	7.2
kW	3.87	3.79	3.71	3.64	3.59	3.56	3.49	3.41	3.41	3.33	3.25	3.21	3.18	3.10	3.02	2.94	2.86	2.79
Amps	19.0	17.7	16.7	15.8	15.3	15.0	14.2	13.6	13.1	12.5	12.0	11.8	11.6	11.1	10.5	10.0	9.3	8.5
COP	4.34	4.19	4.02	3.84	3.71	3.63	3.44	3.25	2.84	2.68	2.53	2.42	2.35	2.16	1.97	1.76	1.54	1.30
HI PR	387	371	356	341	333	326	314	301	289	276	265	258	254	244	235	225	217	209
LO PR	129	120	112	103	97	93	86	77	69	62	54	50	49	41	35	30	26	21

**APH1460M41A\***

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	71.6	67.8	63.8	59.7	57.0	55.2	51.3	47.3	39.1	36.1	33.3	31.4	30.2	27.1	24.1	21.0	17.9	14.7
T/R	35.9	33.9	32.0	29.9	28.5	27.6	25.7	23.7	19.6	18.1	16.6	15.7	15.1	13.6	12.0	10.5	9.0	7.3
kW	5.06	4.96	4.85	4.75	4.69	4.65	4.55	4.44	4.10	4.00	3.91	3.85	3.81	3.72	3.62	3.53	3.43	3.34
Amps	30.1	27.1	24.6	22.5	21.2	20.6	18.8	17.3	16.0	14.8	13.6	13.0	12.7	11.4	9.9	8.7	7.2	5.3
COP	4.15	4.01	3.85	3.68	3.56	3.48	3.30	3.12	2.79	2.64	2.49	2.39	2.32	2.14	1.94	1.74	1.53	1.29
HI PR	426	409	393	376	367	360	346	332	318	304	292	285	280	269	259	248	239	231
LO PR	126	117	110	101	95	92	84	75	68	61	53	49	48	40	35	29	26	20

**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

**APH1424M41\***

POSITION	MOTOR SPEED	VOLTS		STATIC								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Horizontal Position	T1	230	CFM Watts	782 71	709 78	652 86	561 100	---	---	---	---	---
	T2/T3	230	CFM Watts	941 105	872 112	777 113	746 128	614 138	---	---	---	---
	T4/T5	230	CFM Watts	1347 239	1315 256	1256 265	1194 271	1152 282	1096 286	1051 293	972 297	891 305
Downshot Position	T1	230	CFM Watts	790 82	710 86	634 96	566 103	506 108	---	---	---	---
	T2/T3	230	CFM Watts	919 108	855 117	782 121	695 132	631 143	578 144	523 149	---	---
	T4/T5	230	CFM Watts	1312 260	1275 269	1216 274	1153 285	1096 295	1028 300	943 304	869 310	816 316

**APH1430M41\***

POSITION	MOTOR SPEED	VOLTS		STATIC								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Horizontal Position	T1	230	CFM Watts	851 79	803 88	712 91	635 100	575 114	506 116	460 120	---	---
	T2/T3	230	CFM Watts	1146 157	1098 170	1044 176	991 186	934 194	817 201	764 210	698 215	653 215
	T4/T5	230	CFM Watts	1440 290	1418 306	1364 312	1307 321	1265 326	1219 332	1168 348	1094 353	1049 360
Downshot Position	T1	230	CFM Watts	848 84	761 94	646 98	578 111	511 113	---	---	---	---
	T2/T3	230	CFM Watts	1103 162	1038 168	978 179	922 188	806 199	731 205	676 208	622 214	564 219
	T4/T5	230	CFM Watts	1401 311	1357 326	1305 318	1244 334	1179 341	1118 349	1046 353	934 352	884 357

**APH1436M41\***

POSITION	MOTOR SPEED	VOLTS		STATIC								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Horizontal Position	T1	230	CFM Watts	846 74	762 83	716 94	585 98	519 108	---	---	---	---
	T2/T3	230	CFM Watts	1278 221	1214 218	1182 232	1129 245	1072 253	1013 264	950 265	853 275	788 272
	T4/T5	230	CFM Watts	1604 396	1560 402	1507 408	1468 424	1415 426	1364 423	1321 444	1276 454	1218 454
Downshot Position	T1	230	CFM Watts	809 73	730 85	623 92	542 98	485 107	441 112	---	---	---
	T2/T3	230	CFM Watts	1284 220	1223 227	1175 241	1097 247	1031 255	974 262	871 272	804 277	761 285
	T4/T5	230	CFM Watts	1578 401	1539 409	1498 421	1452 425	1396 438	1332 439	1279 452	1224 453	1161 455

APH1442M41\*

POSITION	MOTOR SPEED	VOLTS		STATIC								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Horizontal Position	T1	230	CFM Watts	1030 130	955 126	908 139	826 143	761 154	678 168	633 171	563 181	504 185
	T2/T3	230	CFM Watts	1419 273	1387 281	1327 287	1274 298	1219 309	1171 315	1111 318	1041 326	986 336
	T4/T5	230	CFM Watts	1750 470	1710 475	1673 488	1611 493	1556 502	1499 502	1443 501	1399 514	1353 520
Downshot Position	T1	230	CFM Watts	1001 125	936 133	852 136	810 154	700 160	643 166	579 172	526 177	491 185
	T2/T3	230	CFM Watts	1411 281	1361 294	1299 301	1240 309	1173 312	1112 320	1048 327	955 335	887 339
	T4/T5	230	CFM Watts	1734 475	1678 485	1613 496	1558 504	1509 509	1449 505	1383 519	1341 514	1279 520

APH1448M41\*

POSITION	MOTOR SPEED	VOLTS		STATIC								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Horizontal Position	T1	230	CFM Watts	1167 139	1101 144	1045 156	992 165	939 177	870 193	802 203	732 217	681 223
	T2/T3	230	CFM Watts	1723 372	1637 370	1598 381	1554 390	1509 404	1467 411	1420 420	1361 427	1295 441
	T4/T5	230	CFM Watts	2012 578	1965 593	1912 599	1871 606	1809 610	1770 627	1741 626	1691 634	1635 638
Downshot Position	T1	230	CFM Watts	1155 153	1074 156	1023 169	969 180	896 195	805 205	755 216	667 226	626 230
	T2/T3	230	CFM Watts	1670 383	1596 392	1558 399	1484 408	1467 419	1383 434	1339 436	1259 447	1168 449
	T4/T5	230	CFM Watts	1949 603	1881 607	1853 608	1792 616	1753 622	1699 626	1621 648	1561 650	1522 645

APH1460M41\*

POSITION	MOTOR SPEED	VOLTS		STATIC								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Horizontal Position	T1	230	CFM Watts	1427 222	1370 229	1317 237	1273 256	1204 256	1165 276	1111 291	1058 299	1003 320
	T2/T3	230	CFM Watts	1935 498	1885 512	1848 515	1809 520	1755 541	1705 549	1659 559	1616 567	1567 569
	T4/T5	230	CFM Watts	2232 805	2188 795	2144 790	2087 827	2035 830	2017 842	1963 864	1926 864	1869 848
Downshot Position	T1	230	CFM Watts	1347 242	1293 251	1236 268	1184 276	1117 290	1054 305	996 321	934 330	871 348
	T2/T3	230	CFM Watts	1827 529	1780 538	1739 548	1683 557	1633 557	1588 576	1518 578	1462 604	1404 601
	T4/T5	230	CFM Watts	2111 835	2057 843	2030 846	1979 852	1947 870	1957 959	1922 956	1868 960	1818 966

HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

MODEL AND HEAT KIT USAGE	CIRCUIT #1		CIRCUIT #2		SINGLE-POINT KIT		ACTUAL kW / BTU@ 240V
	MCA <sup>1</sup>	MOP <sup>2</sup>	MCA <sup>1</sup>	MOP <sup>2</sup>	MCA <sup>1</sup>	MOP <sup>2</sup>	
<b>APH1424M41**</b>	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	47	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	58	60	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	71	80	9.5 / 32,400
<b>APH1430M41**</b>	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	48	50	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	60	60	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	73	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	98	110	14.25 / 48,600
<b>APH1436M41**</b>	4.3	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	51	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	63	70	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	76	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	101	110	14.25 / 48,600
<b>APH1442M41**</b>	5.8	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	54	60	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	66	70	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	79	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	104	110	14.25 / 48,600
<b>APH1448M41**</b>	5.8	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	59	70	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	71	80	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	84	90	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	109	110	14.25 / 48,600
HKP-20C	43 / 49	45 / 50	43 / 49	45 / 50	133	150	19.0 / 64,800
<b>APH1460M41**</b>	7.6	---	---	---	--	--	---
HKP-05C*	21 / 25	25 / 25	---	---	69	90	4.75 / 16,200
HKR-08C*	32 / 36	35 / 40	---	---	80	100	7.0 / 23,800
HKP-10C*	43 / 49	45 / 50	---	---	94	110	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	118	125	14.25 / 48,600
HKP-20C	43 / 49	45 / 50	43 / 49	45 / 50	142	150	19.0 / 64,800

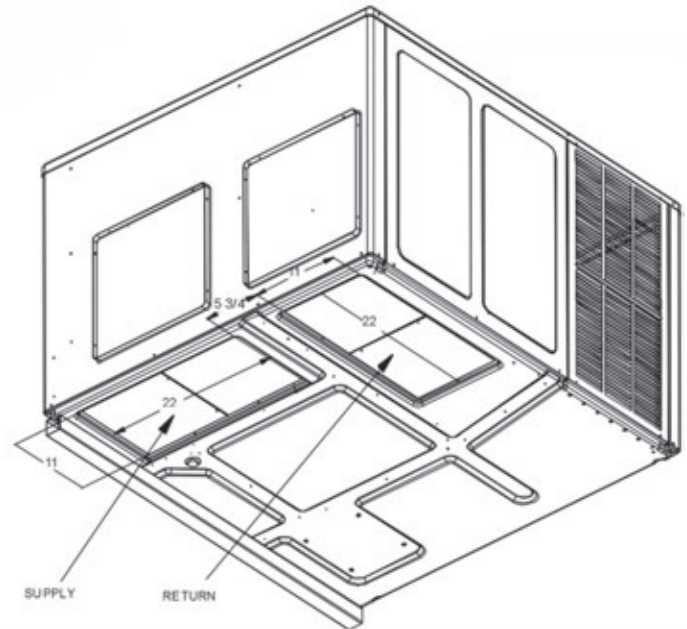
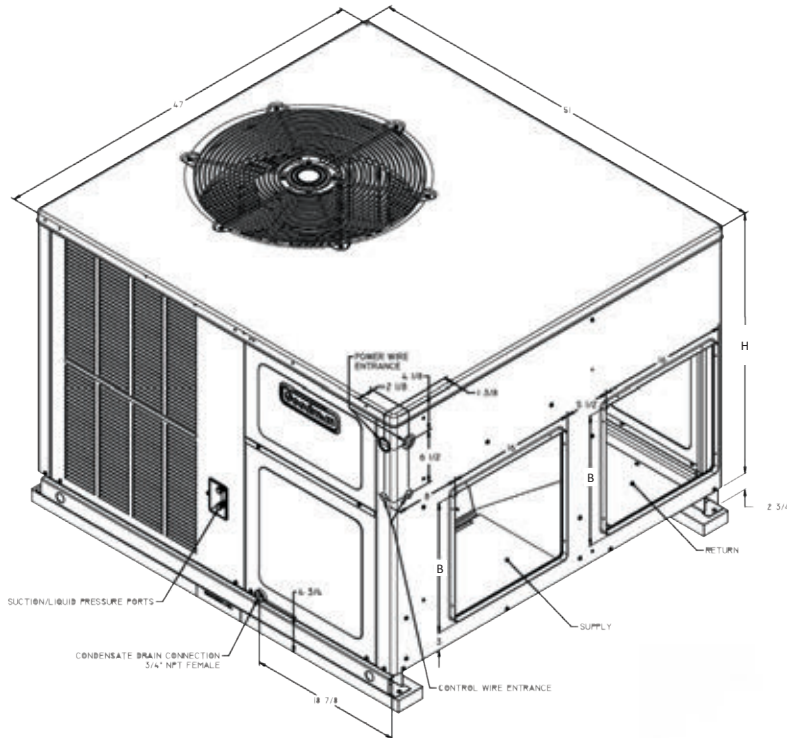
<sup>1</sup> Minimum Circuit Ampacity @ 208 / 240 V

<sup>2</sup> Maximum Overcurrent Protection Device @ 208 / 240 V

\* Revision level that may or may not be designated

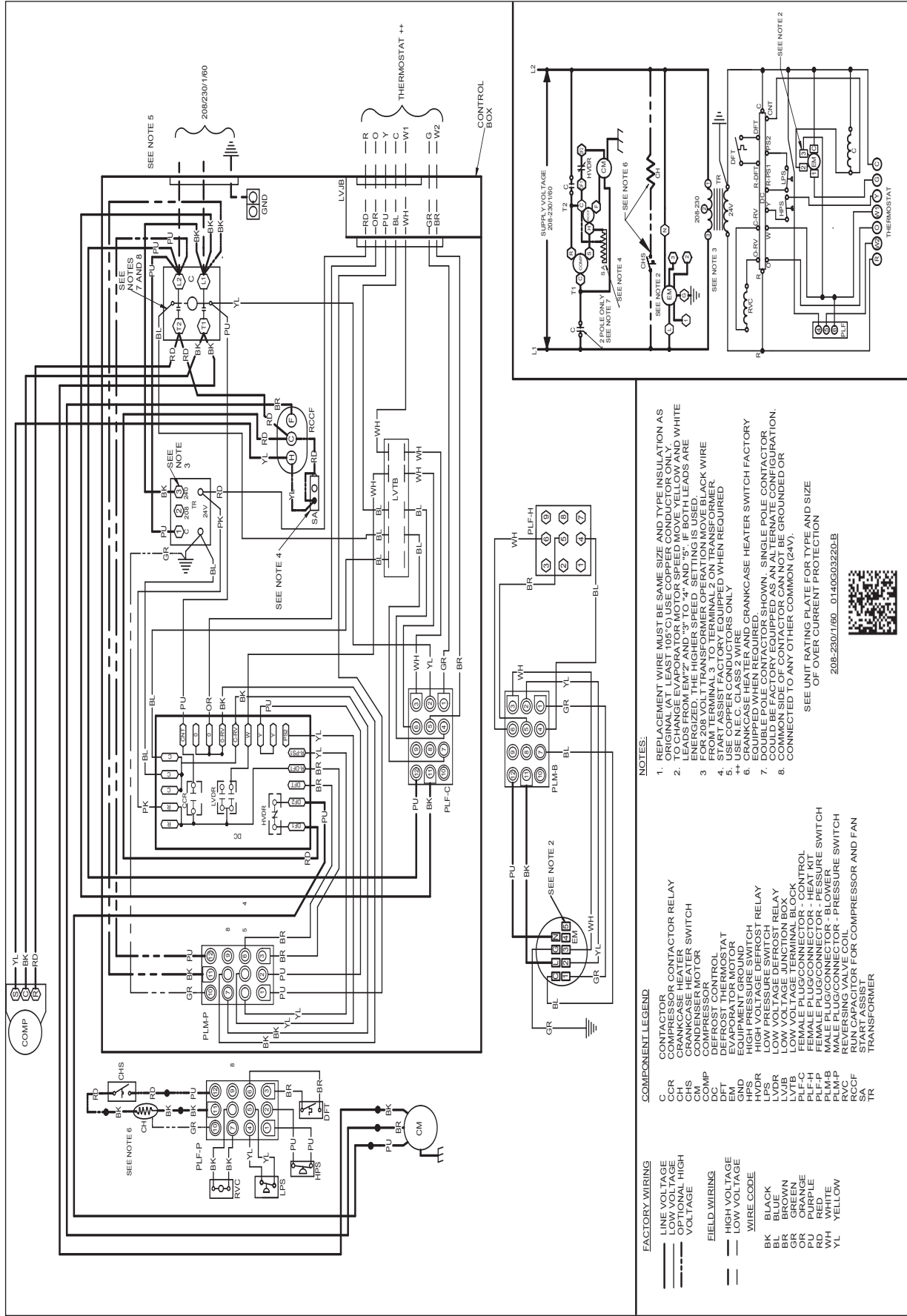
C Circuit breaker option

**NOTE:** HKP-15C\* and HKP-20C\* replace HKR-15C and HKR-20C respectively to meet new UL1995 requirements.



MODEL	W"	D"	H"	CHASSIS SIZE
APH1424M41	47	51	34 1/2"	Med.
APH1430M41	47	51	34 1/2"	Med.
APH1436M41	47	51	34 1/2"	Med.
APH1442M41	47	51	34 1/2"	Med.
APH1448M41	47	51	42 1/2"	Large
APH1460M41	47	51	42 1/2"	Large

B	H
16"	32 1/2"
16"	32 1/2"
16"	32 1/2"
16"	32 1/2"
18"	40"
18"	40"

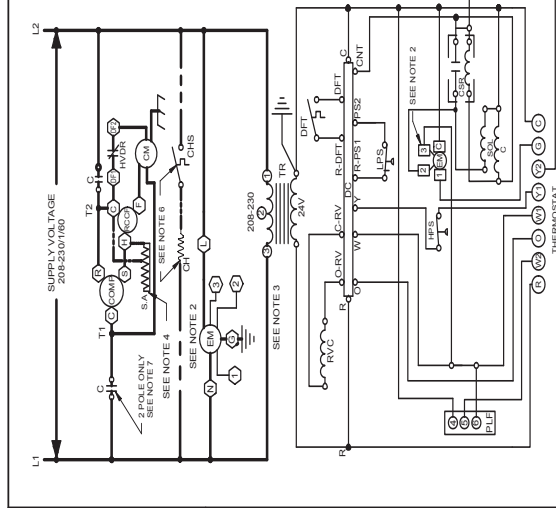
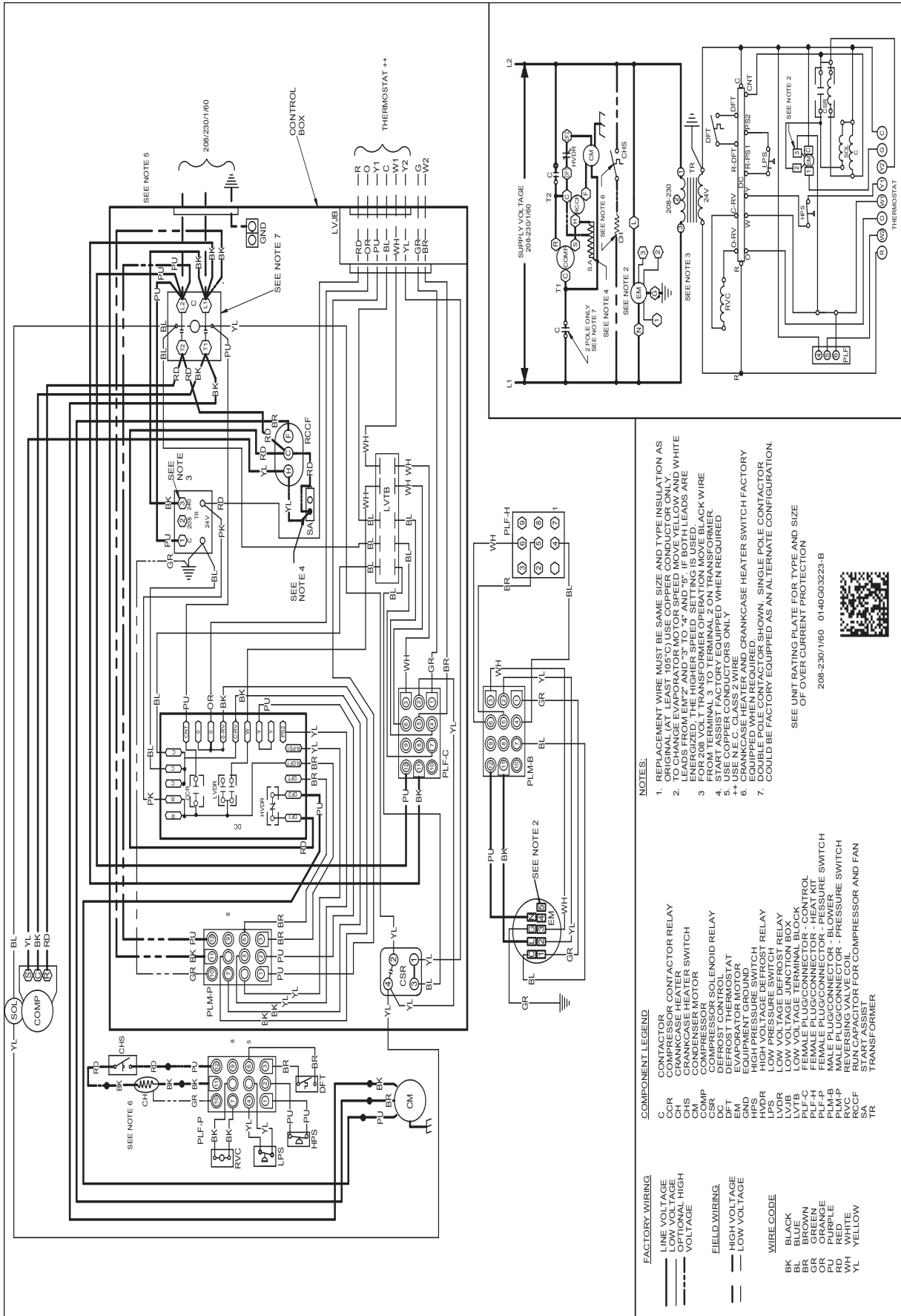


**High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

**WARNING**



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



**NOTES:**

1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL.
2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE YELLOW AND WHITE LEADS FROM EM<sup>2</sup> AND <sup>3</sup>1 TO <sup>4</sup>4 AND <sup>5</sup>5. IF BOTH LEADS ARE USED, THE MOTOR WILL RUN AT 1/2 SPEED.
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
4. START ASSIST IS FACTORY EQUIPPED WHEN REQUIRED.
5. CRANKCASE HEATER IS FACTORY EQUIPPED WHEN REQUIRED.
6. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.
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  
208-230/1160 014-0030223-B

**COMPONENT LEGEND:**

C CONTACTOR  
CHS CRANKCASE HEATER SWITCH  
CM CONDENSER MOTOR  
CSR COMPRESSOR SOLENOID RELAY  
DC DEFROST CONTROL  
EFM EVAPORATOR MOTOR  
EM EQUIPMENT GROUND  
HPS HIGH PRESSURE SWITCH  
LPS LOW PRESSURE SWITCH  
LVD LOW VOLTAGE DEFROST RELAY  
LVTB LOW VOLTAGE TERMINAL BLOCK  
PLF-C FEMALE PLUG/CONNECTOR - CONTROL  
PLF-H FEMALE PLUG/CONNECTOR - HEAT KIT  
PLM-P MALE PLUG/CONNECTOR - BLOWER  
PLM-B MALE PLUG/CONNECTOR - PRESSURE SWITCH  
RC RUN CAPACITOR FOR COMPRESSOR AND FAN  
SA START ASSIST  
TR TRANSFORMER

**FACTORY WIRING**

— LINE VOLTAGE  
— LOW VOLTAGE  
— INITIAL HIGH VOLTAGE

**FIELD WIRING**

— HIGH VOLTAGE  
— LOW VOLTAGE

**WIRE CODE**

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

**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.

ACCESSORY DESCRIPTION	ITEM NUMBER	
	MEDIUM CHASSIS	LARGE CHASSIS
Concentric Kit	CDK36	CDK4872
Downflow Economizer	GPH13MED102	GPH13MED103
Downflow Internal Filter Rack	GPH13MFR102	GPH13MFR103
Downflow Manual Damper	PGMDD101/102	PGMDD103
Downflow Motorized Damper	PGMDMD101/102	PGMDMD103
Downflow Square to Round	SQRPG101/102	SQRPG103
External Horizontal Filter Rack	GPGHFR101-103	GPGHFR101-103
Horizontal Duct Cover	20464501PDGK	20464502PDGK
Horizontal Economizer	PEHH101/102	PEHH103
Horizontal manual Damper	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH102	PGMDMH103
Horizontal Square to Round	SQRPGH101/102	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	PGC101/102/103	PGC101/102/103

**SINGLE-POINT KIT ACCESSORY KITS**

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

MODEL	SINGLE-POINT KIT
APH1424M41**	SPK-30
APH1430M41**	SPK-35
APH1436M41**	SPK-40
APH1443M41**	SPK-40
APH1449M41**	SPK-50
APH1460M41**	SPK-60