



APU14M

Packaged Gas Electric Units

2 to 5 Tons

14 SEER / 81% AFUE

Cooling Capacity: 23,000 – 56,500 BTU/h

Heating Capacity: 40,000 – 80,000 BTU/h

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Standard Features

- Heavy-duty stainless-steel heat exchanger
- Energy-efficient scroll compressor
- Multi-speed ECM indoor blower motor
- All-aluminum evaporator coil
- Compressor sound blanket
- Flowrater expansion device
- Power-assisted combustion
- Direct spark ignition system includes a microprocessor-based control for the entire ignition sequence, all blower operation, and all safety circuits complete with self diagnostics
- California Ultra-Low NOx emissions compliant
- Eligible for installation in California's South Coast Air Quality Management District (SCAQMD) and San Joaquin Valley Air Pollution Control District (SJVUAPCD). This gas packaged unit furnace complies with the 14 ng/J NOx emission limit in SCAQMD Rule 1111 and SJVUAPCD Rule 4905. This gas packaged unit furnace is eligible for the SCAQMD Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com
- AHRI Certified; ETL Listed

* Complete warranty details available on www.nexgenairandheat.com. To receive the Lifetime Unit Replacement Lifetime Warranty (good for as long as you own your home) and 10-Year Parts Lifetime Warranty, in order to qualify for lifetime replacement warranty you need to be part of the X Protection Family. Membership must be current and up-to-date.

Cabinet Features

- High-quality UV-resistant powder-paint finish
- Aluminum foil-facing internal insulation reinforced with fiberglass scrim
- Horizontal or downflow application
- Convenient access panels
- One roof curb fits all units
- Fully insulated cabinet
- Bottom, 2" high base rails for easier handling
- One footprint for all tonnages



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	A	P	U	14	36	080	M	4	1	**		
	1	2	3	4,5	6,7	8,9,10	11	12	13	14,15		
Brand	A Amana® brand										Engineering	
											Major/ Minor Revisions (not used for inventory control)	
Product Category	P Packaged Unit									Electrical		
										1 208-230/1/60		
Unit Type	G Gas/Electric										Refrigerant	
	D Dual-Fuel										4 R-410A	
	U Ultra-Low NOx										Airflow	
Efficiency	14 14 SEER										M Multi-Position	
	16 16 SEER										Heat Input	
											40 40 MBTU/h	
Nominal Capacity											60 60 MBTU/h	
	24 2 Tons	36 3 Tons	48 4 Tons								80 80 MBTU/h	
	30 2½ tons	42 3½ Tons	61 5 Tons									

	APU1424 040M41A*	APU1430 060M41A*	APU1436 060M41C*	APU1442 080M41C*	APU1448 080M41C**	APU1461 080M41A*
COOLING CAPACITY						
Total BTU/h	23,000	28,600	34,200	40,000	46,500	56,000
Sensible BTU/h	18,400	22,800	27,000	30,000	36,800	42,000
SEER / EER	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11
Decibels	78	78	78	78	80	78
AHRI Reference #s	207252517	207252547	207252523	207252531	207252535	207252541
HEATING CAPACITY						
Input BTU/h	40,000	60,000	60,000	80,000	80,000	80,000
Output BTU/h	31,000	48,000	48,000	64,000	64,000	64,000
AFUE	81	81	81	81	81	81
Temperature Rise Range	20- 50	30- 60	30- 60	30- 60	30- 60	30- 60
No. of Burners	1	1	1	1	1	1
Orifice Size (Natural/Propane)	#31	#25	#25	#17	#17	#17
EVAPORATOR MOTOR						
Type	EEM	EEM	EEM	EEM	EEM	EEM
Wheel (D x W)	10" x 8"	10" x 8"	10" x 9"	11" x 10"	11" x 10"	11" x 10"
Indoor Nominal CFM	800	1,000	1,200	1,300	1,525	1325 L / 1700 H
Motor Speed Tap (Cooling)	T4	T4	T4	T4	T4	T3 L / T4 H
Horsepower	1/2	1/2	1/2	3/4	3/4	1
EVAPORATOR COIL						
Face Area (ft ²)	4.3	4.3	4.3	5.7	5.7	5.7
Rows Deep/Fins per Inch	3/14	3/14	4/14	4/14	4/14	4/14
Piston Size (Cooling)	0.057	0.062	0.068	0.072	0.076	TXV
Drain Size (NPT)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Refrigerant Charge (oz.)	75	78	92	103	107	100
CONDENSER FAN / COIL						
Horsepower- RPM	1/6- 815	1/4- 1,075	1/4- 1,075	1/4- 1,075	1/3- 1,122	1/3- 1,122
Diameter / # of Blades	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3
Outdoor Nominal CFM	2,150	3,050	2,850	3,300	3,000	3,000
Face Area (ft ²)	12.3	12.3	11.1	15.4	14.4	14.4
Rows Deep/Fins per Inch	1/24	1/24	2/27	1/24	2/27	2/27
COMPRESSOR						
Quantity / Type	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll
Stage	Single	Single	Single	Single	Single	Two
Compressor RLA/LRA	13.5 / 58.3	14.1 / 73	14.1/77.0	17.9 / 112	18.5 / 124	22.9 / 147.2
ELECTRICAL DATA						
Voltage-Phase (60 Hz)	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1
Indoor Blower FLA	3.8	3.8	3.8	5.4	5.4	7.0
Outdoor Fan FLA/LRA	0.95/2.0	1.4 / 3.2	1.4 / 3.2	1.4 / 3.2	2.0 / 4.4	2.0 / 4.4
Min. Circuit Ampacity	21.6	22.8	22.8	29.2	30.5	37.6
Max. Overcurrent Protection	35 amps	35 amps	35 amps	45 amps	45 amps	60 amps
Entrance Size Power Supply	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Entrance Size Control Voltage	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
OPERATING / SHIP WEIGHTS (LBS)						
	412 / 435	420 / 442	496 / 520	523 / 545	533 / 555	533 / 555

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

² Must use time-delay 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		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
889		MBh	22.7	23.5	25.8	-	-	-	-	21.7	22.4	24.6	-	21.1	21.9	24.0	-	20.1	20.8	22.8	-	18.6	19.3	21.1	-
		S/T	0.81	0.68	0.47	-	-	-	-	0.86	0.72	0.50	-	0.89	0.74	0.51	-	0.92	0.77	0.53	-	0.93	0.77	0.54	-
		ΔT	19	16	12	-	-	-	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-
		kW	1.44	1.47	1.51	-	-	-	-	1.65	1.69	1.74	-	1.74	1.78	1.84	-	1.81	1.86	1.92	-	1.88	1.92	1.99	-
		Amps	6.6	6.8	6.9	-	-	-	-	7.6	7.7	8.0	-	8.0	8.2	8.4	-	8.5	8.7	8.9	-	8.9	9.1	9.4	-
		HI PR	236	254	269	-	-	-	-	302	325	343	-	344	370	391	-	387	416	439	-	427	460	485	-
		LO PR	113	120	131	-	-	-	-	124	132	144	-	130	138	151	-	136	145	158	-	141	150	164	-
70		MBh	22.0	22.8	25.0	-	-	-	-	21.0	21.8	23.9	-	20.5	21.3	23.3	-	19.5	20.2	22.1	-	18.0	18.7	20.5	-
		S/T	0.77	0.64	0.45	-	-	-	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.88	0.73	0.51	-	0.88	0.74	0.51	-
		ΔT	20	17	13	-	-	-	-	20	17	13	-	20	17	13	-	20	17	13	-	19	16	12	-
		kW	1.42	1.46	1.50	-	-	-	-	1.64	1.67	1.73	-	1.72	1.76	1.82	-	1.80	1.84	1.90	-	1.86	1.91	1.97	-
		Amps	6.6	6.7	6.9	-	-	-	-	7.5	7.7	7.9	-	8.0	8.1	8.4	-	8.4	8.6	8.8	-	8.8	9.0	9.3	-
		HI PR	234	252	266	-	-	-	-	299	322	340	-	340	366	387	-	383	412	435	-	423	455	481	-
		LO PR	111	119	129	-	-	-	-	122	130	142	-	129	137	149	-	135	143	157	-	139	148	162	-
694		MBh	20.3	21.1	23.1	-	-	-	-	19.4	20.1	22.0	-	18.9	19.6	21.5	-	18.0	18.6	20.4	-	16.7	17.3	18.9	-
		S/T	0.74	0.62	0.43	-	-	-	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
		ΔT	20	17	13	-	-	-	-	20	18	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		kW	1.39	1.42	1.47	-	-	-	-	1.60	1.63	1.69	-	1.68	1.72	1.78	-	1.75	1.79	1.85	-	1.82	1.86	1.92	-
		Amps	6.4	6.6	6.7	-	-	-	-	7.4	7.5	7.7	-	7.8	7.9	8.2	-	8.2	8.4	8.6	-	8.6	8.8	9.1	-
		HI PR	227	244	258	-	-	-	-	290	312	329	-	330	355	375	-	371	400	422	-	410	442	466	-
		LO PR	108	115	126	-	-	-	-	119	126	138	-	125	133	145	-	131	139	152	-	135	144	157	-

IDB		OUTDOOR AMBIENT TEMPERATURE																											
		65				75				85				95				105				115							
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
889		MBh	23.1	23.8	25.7	27.6	-	-	-	22.6	23.2	25.1	27.0	22.0	22.7	24.5	26.3	21.5	22.1	23.9	25.7	20.4	21.0	22.7	24.4	18.9	19.5	21.1	22.6
		S/T	0.92	0.82	0.62	0.40	-	-	-	0.95	0.85	0.64	0.41	0.98	0.87	0.66	0.43	1.00	0.90	0.68	0.44	1.00	0.94	0.71	0.46	1.00	0.94	0.71	0.46
		ΔT	22	20	17	11	-	-	-	22	20	17	12	22	20	17	12	22	21	17	12	21	20	17	12	20	19	16	11
		kW	1.45	1.48	1.53	1.58	-	-	-	1.56	1.60	1.65	1.71	1.66	1.70	1.76	1.82	1.75	1.79	1.85	1.92	1.83	1.87	1.94	2.00	1.90	1.94	2.01	2.08
		Amps	6.7	6.8	7.0	7.2	-	-	-	7.1	7.3	7.5	7.7	7.7	7.8	8.0	8.3	8.1	8.3	8.5	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8
		HI PR	239	257	271	283	-	-	-	268	288	305	318	305	328	346	361	347	374	395	412	391	420	444	463	432	464	490	512
		LO PR	114	121	132	141	-	-	-	120	128	140	149	125	133	145	154	131	140	152	162	138	146	160	170	142	151	165	176
75		MBh	22.4	23.1	25.0	26.8	-	-	-	21.9	22.5	24.4	26.2	21.4	22.0	23.8	25.6	20.9	21.5	23.2	24.9	19.8	20.4	22.1	23.7	18.4	18.9	20.5	22.0
		S/T	0.88	0.78	0.59	0.38	-	-	-	0.91	0.81	0.61	0.40	0.93	0.83	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.89	0.68	0.43	1.00	0.90	0.68	0.44
		ΔT	23	21	17	12	-	-	-	23	21	17	12	23	21	17	12	23	21	18	12	23	21	17	12	21	20	16	11
		kW	1.44	1.47	1.52	1.57	-	-	-	1.55	1.58	1.64	1.69	1.65	1.69	1.74	1.80	1.74	1.78	1.84	1.90	1.82	1.86	1.92	1.99	1.88	1.92	1.99	2.06
		Amps	6.6	6.8	6.9	7.2	-	-	-	7.1	7.2	7.4	7.7	7.6	7.7	8.0	8.2	8.0	8.2	8.4	8.7	8.5	8.7	8.9	9.2	8.9	9.1	9.4	9.7
		HI PR	237	255	269	280	-	-	-	265	286	302	315	302	325	343	358	344	370	391	407	387	416	439	458	427	460	486	506
		LO PR	113	120	131	139	-	-	-	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	168	141	150	164	174
694		MBh	20.7	21.3	23.1	24.8	-	-	-	20.2	20.8	22.5	24.2	19.7	20.3	22.0	23.6	19.2	19.8	21.5	23.0	18.3	18.8	20.4	21.9	16.9	17.4	18.9	20.3
		S/T	0.84	0.76	0.57	0.37	-	-	-	0.88	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		ΔT	23	21	17	12	-	-	-	23	22	18	12	23	22	18	12	24	22	18	12	23	21	18	12	22	20	16	11
		kW	1.40	1.43	1.48	1.53	-	-	-	1.51	1.54	1.60	1.65	1.61	1.65	1.70	1.76	1.70	1.73	1.79	1.85	1.77	1.81	1.87	1.93	1.83	1.87	1.94	2.00
		Amps	6.5	6.6	6.8	7.0	-	-	-	6.9	7.1	7.3	7.5	7.4	7.6	7.8	8.0	7.8	8.0	8.2	8.5	8.3	8.5	8.7	9.0	8.7	8.9	9.1	9.5
		HI PR	229	247	261	272	-	-	-	257	277	293	305	293	315	333	347	333	359	379	395	375	404	426	445	414	446	471	491
		LO PR	109	116	127	135	-	-	-	115	123	134	143	120	128	139	148	126	134	146	156	132	140	153	163	137	145	159	169

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects ACCA (TVA) conditions.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)
 kW = Total system power

IDB		OUTDOOR AMBIENT TEMPERATURE												105												115																																																																																																																																																												
		65						75						85						95						105						115																																																																																																																																																						
		59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79																																																																																																																																																	
889		MBh	23.5	24.0	25.7	27.4	23.0	23.5	25.1	26.8	22.4	22.9	24.5	26.2	21.9	22.3	23.9	25.5	20.8	21.2	22.7	24.2	19.2	19.7	21.0	22.5	S/T	1.00	0.95	0.77	0.57	1.00	1.00	0.80	0.60	1.00	1.00	0.82	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.88	0.65	1.00	1.00	0.88	0.66	ΔT	24	23	20	16	24	24	21	17	23	24	21	17	23	23	23	21	17	21	22	22	21	16	20	20	19	15	kW	1.46	1.49	1.54	1.59	1.58	1.61	1.66	1.72	1.68	1.72	1.77	1.83	1.77	1.77	1.81	1.87	1.94	1.85	1.89	1.95	2.02	1.91	1.96	2.02	2.09	Amps	6.7	6.9	7.1	7.3	7.2	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.3	8.3	8.6	8.9	8.6	8.8	9.1	9.4	9.1	9.3	9.5	9.9	HI PR	241	260	274	286	271	291	308	321	308	331	350	365	351	377	399	416	436	395	425	448	468	436	469	495	517	LO PR	115	122	133	142	121	129	141	150	126	134	147	156	133	141	154	164	172	144	153	167	178	144	153	167	178
80		MBh	22.8	23.3	24.9	26.6	22.3	22.8	24.3	26.0	21.8	22.2	23.8	25.4	21.2	21.7	23.2	24.8	20.2	20.6	22.0	23.5	18.7	19.1	20.4	21.8	S/T	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.58	1.00	0.99	0.80	0.60	1.00	1.00	0.84	0.62	1.00	1.00	0.84	0.63	ΔT	25	24	21	17	26	25	21	17	25	25	22	17	25	25	25	22	17	23	24	24	21	17	22	22	20	16	kW	1.45	1.48	1.53	1.58	1.56	1.60	1.65	1.71	1.66	1.70	1.76	1.82	1.75	1.79	1.86	1.92	1.83	1.87	1.94	2.00	1.90	1.94	2.01	2.08	Amps	6.7	6.8	7.0	7.2	7.1	7.3	7.5	7.7	7.7	7.8	8.0	8.3	8.1	8.3	8.5	8.8	8.9	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8	HI PR	239	257	271	283	268	288	305	318	305	328	346	361	347	374	395	412	432	391	420	444	463	432	464	490	512	LO PR	114	121	132	141	120	128	140	149	125	133	145	155	131	140	152	162	170	138	146	160	170	142	151	165	176	
694		MBh	21.1	21.5	23.0	24.6	20.6	21.0	22.5	24.0	20.1	20.5	21.9	23.4	19.6	20.0	21.4	22.9	18.6	19.0	20.3	21.7	17.2	17.6	18.8	20.1	S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.02	0.95	0.78	0.58	1.05	0.99	0.81	0.60	1.06	1.00	0.81	0.61	ΔT	26	25	22	17	26	25	22	17	26	25	22	17	26	25	22	18	26	25	22	17	24	23	20	16	kW	1.41	1.44	1.49	1.54	1.52	1.56	1.61	1.66	1.62	1.66	1.71	1.77	1.71	1.75	1.81	1.87	1.78	1.82	1.89	1.95	1.85	1.89	1.95	2.02	Amps	6.5	6.7	6.8	7.1	7.0	7.1	7.3	7.5	7.5	7.6	7.8	8.1	7.9	8.1	8.3	8.6	8.3	8.3	8.5	8.8	9.1	8.8	9.0	9.2	9.5	HI PR	232	249	263	275	260	280	295	308	296	318	336	351	337	362	383	399	379	379	408	431	449	419	451	476	496	LO PR	110	117	128	136	117	124	135	144	121	129	141	150	127	135	148	157	145	133	142	155	165	138	147	160	171			
889		MBh	23.9	24.4	25.5	27.2	23.4	23.8	24.9	26.6	22.8	23.2	24.3	26.0	22.2	22.7	23.7	25.3	21.1	21.5	22.6	24.1	19.6	20.0	20.9	22.3	S/T	1.00	0.92	0.75	0.57	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.79	1.00	1.00	1.00	0.82	1.00	1.00	0.85	0.65	1.00	1.00	0.88	0.66	ΔT	25	25	24	21	24	25	25	21	24	24	25	21	21	23	23	25	21	22	22	23	21	20	21	22	20	kW	1.47	1.50	1.55	1.61	1.59	1.62	1.68	1.74	1.69	1.73	1.79	1.85	1.78	1.83	1.89	1.95	1.86	1.91	1.97	2.04	1.93	1.97	2.04	2.11	Amps	6.8	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.2	8.4	8.2	8.4	8.6	8.9	8.7	8.9	9.1	9.4	9.1	9.3	9.6	9.9	HI PR	244	262	277	289	273	294	311	324	311	335	353	369	354	381	403	420	399	399	429	453	472	440	474	500	522	LO PR	116	123	135	144	123	130	142	152	127	136	148	158	134	142	155	166	140	149	163	174	145	154	169	179				
85		MBh	23.2	23.7	24.8	26.4	22.7	23.1	24.2	25.8	22.1	22.6	23.6	25.2	21.6	22.0	23.1	24.6	20.5	20.9	21.9	23.4	19.0	19.4	20.3	21.6	S/T	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.93	0.76	1.00	1.00	0.96	0.78	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.62	ΔT	27	27	25	22	26	27	26	22	26	26	26	22	22	25	26	26	22	24	24	25	22	22	23	24	21	kW	1.46	1.49	1.54	1.59	1.58	1.61	1.66	1.72	1.68	1.72	1.77	1.83	1.77	1.81	1.87	1.94	1.85	1.89	1.95	2.02	1.91	1.96	2.02	2.09	Amps	6.7	6.9	7.1	7.3	7.2	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.3	8.6	8.9	8.6	8.8	9.1	9.4	9.1	9.3	9.5	9.9	HI PR	241	260	274	286	271	291	308	321	308	331	350	365	351	377	399	416	395	425	448	468	436	469	495	517	LO PR	115	122	133	142	121	129	141	150	126	134	147	156	133	141	154	164	140	149	163	174	144	153	167	178					
694		MBh	21.4	21.8	22.9	24.4	20.9	21.3	22.3	23.8	20.4	20.8	21.8	23.3	19.9	20.3	21.3	22.7	18.9	19.3	20.2	21.6	17.5	17.9	18.7	20.0	S/T	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79	ΔT	28	27	26	22	28	27	26	22	27	27	26	22	22	26	27	26	23	25	26	26	22	23	24	24	21	kW	1.42	1.45	1.50	1.55	1.54	1.57	1.62	1.68	1.64	1.67	1.73	1.79	1.72	1.76	1.82	1.89	1.80	1.84	1.90	1.97	1.86	1.91	1.97	2.04	Amps	6.6	6.7	6.9	7.1	7.0	7.2	7.4	7.6	7.5	7.7	7.9	8.2	8.0	8.1	8.4	8.6	8.4	8.6	8.8	9.1	8.8	9.0	9.3	9.6	HI PR	234	252	266	277	263	283	298	311	299	321	339	354	340	366	387	403	383	412	435	454	423	455	481	501	LO PR	111	119	129	138	118	125	137	146	122	130	142	151	129	137	149	159	135	143	156	167	139	148	162	172					

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects AHRI (TVA) conditions.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)
 kW = Total system power

IDB		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		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	AIRFLOW	34.8	35.3	36.3	-	34.5	35.0	36.0	-	33.6	34.1	35.1	-	32.0	32.5	33.5	-	30.1	30.6	31.6	-	28.4	28.8	29.9	-
	MBh	0.65	0.57	0.42	-	0.65	0.57	0.43	-	0.68	0.60	0.45	-	1.00	0.62	0.47	-	1.00	0.64	0.50	-	1.00	0.70	0.55	-
	S/T	20	18	15	-	20	18	15	-	20	18	15	-	20	18	15	-	20	18	14	-	21	19	15	-
	ΔT	2.23	2.23	2.23	-	2.50	2.50	2.50	-	2.80	2.80	2.80	-	3.13	3.12	3.12	-	3.49	3.49	3.48	-	3.91	3.91	3.91	-
	kW	8.9	8.9	8.9	-	10.1	10.1	10.1	-	11.5	11.5	11.5	-	13.0	13.0	12.9	-	14.6	14.6	14.6	-	16.6	16.6	16.6	-
	Amps	267	268	270	-	309	310	312	-	353	354	356	-	400	401	403	-	451	453	454	-	506	507	509	-
	HI PR	127	129	132	-	135	137	140	-	142	143	147	-	148	149	152	-	153	155	158	-	160	162	165	-
	LO PR	35.3	35.7	36.8	-	34.9	35.4	36.5	-	34.0	34.5	35.6	-	32.5	33.0	34.0	-	30.6	31.0	32.1	-	28.8	29.3	30.3	-
	MBh	0.71	0.63	0.48	-	0.72	0.64	0.49	-	1.00	0.66	0.52	-	1.00	0.68	0.54	-	1.00	0.71	0.56	-	1.00	1.00	0.62	-
	S/T	19	17	13	-	19	17	13	-	19	17	14	-	19	17	13	-	18	17	13	-	20	18	14	-
	ΔT	2.25	2.25	2.24	-	2.52	2.51	2.51	-	2.82	2.81	2.81	-	3.14	3.14	3.13	-	3.50	3.50	3.50	-	3.93	3.93	3.92	-
	kW	8.9	8.9	8.9	-	10.2	10.2	10.1	-	11.6	11.5	11.5	-	13.0	13.0	13.0	-	14.7	14.7	14.7	-	16.6	16.6	16.6	-
Amps	269	270	272	-	311	312	314	-	355	356	358	-	402	404	406	-	454	455	457	-	508	509	511	-	
HI PR	129	131	134	-	137	138	142	-	144	145	148	-	149	151	154	-	155	157	160	-	162	164	167	-	
LO PR	35.8	36.3	37.3	-	35.5	36.0	37.0	-	34.6	35.1	36.1	-	33.0	33.5	34.5	-	31.1	31.6	32.6	-	29.4	29.9	30.9	-	
MBh	0.75	0.67	0.52	-	0.75	0.67	0.53	-	1.00	0.70	0.55	-	1.00	0.72	0.57	-	1.00	0.74	0.60	-	1.00	1.00	0.65	-	
S/T	18	16	13	-	18	16	13	-	18	16	13	-	18	16	12	-	18	16	12	-	19	17	13	-	
ΔT	2.26	2.26	2.25	-	2.53	2.53	2.52	-	2.83	2.83	2.82	-	3.15	3.15	3.15	-	3.51	3.51	3.51	-	3.94	3.94	3.93	-	
kW	9.0	9.0	9.0	-	10.2	10.2	10.2	-	11.6	11.6	11.6	-	13.1	13.1	13.1	-	14.8	14.7	14.7	-	16.7	16.7	16.7	-	
Amps	271	272	274	-	313	314	316	-	357	358	360	-	405	406	408	-	456	457	459	-	510	512	513	-	
HI PR	131	133	136	-	139	141	144	-	146	147	151	-	151	153	156	-	157	159	162	-	164	166	169	-	
LO PR																									

IDB		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		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	AIRFLOW	34.8	35.3	36.3	37.9	34.5	35.0	36.0	37.6	33.6	34.1	35.1	36.7	32.0	32.5	33.6	35.2	30.1	30.6	31.7	33.2	28.4	28.9	29.9	31.5
	MBh	0.78	0.70	0.56	0.41	1.00	0.71	0.56	0.41	1.00	0.74	0.59	0.44	1.00	0.76	0.61	0.46	1.00	1.00	0.64	0.48	1.00	1.00	0.69	0.54
	S/T	24	22	19	15	24	22	19	15	24	22	19	15	24	22	19	15	24	22	18	15	25	23	19	16
	ΔT	2.23	2.23	2.22	2.25	2.50	2.50	2.49	2.51	2.80	2.80	2.79	2.81	3.12	3.12	3.12	3.14	3.49	3.49	3.48	3.50	3.91	3.91	3.91	3.93
	kW	8.9	8.9	8.8	8.9	10.1	10.1	10.1	10.2	11.5	11.5	11.4	11.5	13.0	13.0	12.9	13.0	14.6	14.6	14.6	14.7	16.6	16.6	16.5	16.6
	Amps	267	268	270	275	309	310	312	317	353	354	356	361	400	402	403	408	452	453	455	459	506	507	509	514
	HI PR	127	129	132	138	135	137	140	145	142	143	147	152	148	149	152	158	153	155	158	163	160	162	165	170
	LO PR	35.3	35.8	36.8	38.4	35.0	35.5	36.5	38.1	34.1	34.5	35.6	37.2	32.5	33.0	34.0	35.6	30.6	31.1	32.1	33.7	28.8	29.3	30.4	32.0
	MBh	0.85	0.77	0.62	0.47	1.00	0.77	0.63	0.48	1.00	0.80	0.66	0.50	1.00	0.82	0.68	0.52	1.00	1.00	0.70	0.55	1.00	1.00	0.75	0.60
	S/T	23	21	18	14	23	21	17	14	23	21	18	14	23	21	17	14	22	21	17	14	24	22	18	15
	ΔT	2.25	2.24	2.24	2.26	2.51	2.51	2.51	2.53	2.81	2.81	2.81	2.83	3.14	3.13	3.13	3.15	3.50	3.50	3.49	3.52	3.93	3.92	3.92	3.94
	kW	8.9	8.9	8.9	9.0	10.2	10.2	10.1	10.2	11.5	11.5	11.5	11.6	13.0	13.0	13.0	13.1	14.7	14.7	14.7	14.8	16.6	16.6	16.6	16.7
Amps	269	270	272	277	311	312	314	319	355	356	358	363	403	404	406	410	454	455	457	462	509	510	512	516	
HI PR	129	131	134	139	137	138	142	147	144	145	149	154	149	151	154	160	155	157	160	165	162	164	167	172	
LO PR	35.8	36.3	37.4	38.9	35.5	36.0	37.0	38.6	34.6	35.1	36.1	37.7	33.0	33.5	34.6	36.2	31.1	31.6	32.7	34.2	29.4	29.9	30.9	32.5	
MBh	0.88	0.80	0.66	0.51	1.00	0.81	0.67	0.51	1.00	0.84	0.69	0.54	1.00	0.86	0.71	0.56	1.00	1.00	0.74	0.58	1.00	1.00	0.79	0.64	
S/T	22	20	17	13	22	20	17	13	22	20	17	13	22	20	17	13	22	20	16	13	23	21	17	14	
ΔT	2.26	2.25	2.25	2.27	2.53	2.52	2.52	2.54	2.83	2.82	2.82	2.84	3.15	3.15	3.14	3.16	3.51	3.51	3.51	3.53	3.94	3.94	3.93	3.95	
kW	9.0	9.0	9.0	9.1	10.2	10.2	10.2	10.3	11.6	11.6	11.6	11.7	13.1	13.1	13.1	13.1	14.7	14.7	14.7	14.8	16.7	16.7	16.7	16.8	
Amps	271	272	274	279	313	315	316	321	357	359	360	365	405	406	408	413	456	457	459	464	511	512	514	518	
HI PR	131	133	136	141	139	141	144	149	146	147	151	156	151	153	156	162	157	159	162	167	164	166	169	174	
LO PR																									

Shaded area reflects ACCA (TVA) conditions.
 kW = Total system power
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)

EXPANDED COOLING DATA — APU1461***M41A* - LOW STAGE

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																								
		65				75				85				95				105				115				
		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	975	MBh	41.0	41.6	42.8	-	40.6	41.2	42.4	-	39.6	40.2	41.4	-	37.7	38.3	39.5	-	35.5	36.1	37.3	-	33.4	34.0	35.2	-
		S/T	0.63	0.55	0.41	-	0.64	0.56	0.42	-	0.66	0.58	0.44	-	1.00	0.60	0.46	-	1.00	0.63	0.49	-	1.00	0.68	0.54	-
		ΔT	20	19	15	-	20	18	15	-	21	19	15	-	20	18	15	-	20	18	15	-	21	19	16	-
		KW	2.31	2.31	2.30	-	2.58	2.58	2.58	-	2.89	2.89	2.88	-	3.22	3.22	3.21	-	3.59	3.59	3.58	-	4.03	4.02	4.02	-
		Amps	8.2	8.2	8.1	-	9.4	9.3	9.3	-	10.7	10.7	10.7	-	12.1	12.1	12.1	-	13.7	13.7	13.7	-	15.6	15.6	15.6	-
	1100	Hi PR	267	268	270	-	309	310	312	-	353	354	356	-	400	401	403	-	451	452	454	-	506	507	509	-
		Lo PR	125	126	130	-	132	134	137	-	139	141	144	-	145	146	149	-	150	152	155	-	157	159	162	-
		MBh	41.5	42.1	43.3	-	41.1	41.7	42.9	-	40.1	40.6	41.9	-	38.2	38.8	40.0	-	36.0	36.6	37.8	-	33.9	34.5	35.7	-
		S/T	0.68	0.61	0.47	-	0.69	0.61	0.47	-	0.72	0.64	0.50	-	1.00	0.66	0.52	-	1.00	0.68	0.54	-	1.00	0.73	0.59	-
		ΔT	19	18	14	-	19	17	14	-	20	18	14	-	19	17	14	-	19	17	14	-	20	18	15	-
1325	KW	2.32	2.32	2.31	-	2.60	2.59	2.59	-	2.90	2.90	2.90	-	3.23	3.23	3.23	-	3.60	3.60	3.60	-	4.04	4.04	4.03	-	
	Amps	8.2	8.2	8.2	-	9.4	9.4	9.4	-	10.7	10.7	10.7	-	12.2	12.2	12.2	-	13.8	13.8	13.8	-	15.7	15.7	15.7	-	
	Hi PR	269	270	272	-	311	312	314	-	355	356	358	-	402	403	405	-	453	454	456	-	508	509	511	-	
	Lo PR	126	128	131	-	134	136	139	-	141	142	145	-	146	148	151	-	152	153	157	-	159	160	163	-	
	MBh	42.6	43.2	44.4	-	42.3	42.8	44.1	-	41.2	41.8	43.0	-	39.3	39.9	41.2	-	37.1	37.7	38.9	-	35.0	35.6	36.8	-	

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																								
		65				75				85				95				105				115				
		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	975	MBh	41.0	41.6	42.8	44.7	40.7	41.2	42.5	44.3	39.6	40.2	41.4	43.3	37.8	38.3	39.6	41.4	35.5	36.1	37.3	39.2	33.5	34.0	35.3	37.1
		S/T	0.76	0.68	0.54	0.40	0.77	0.69	0.55	0.40	1.00	0.72	0.58	0.43	1.00	0.74	0.60	0.45	1.00	0.76	0.62	0.47	1.00	1.00	0.67	0.53
		ΔT	25	23	19	16	25	23	19	15	25	23	19	16	25	23	19	15	24	22	19	15	25	24	20	16
		KW	2.31	2.30	2.30	2.32	2.58	2.58	2.57	2.60	2.89	2.89	2.88	2.90	3.22	3.22	3.21	3.23	3.59	3.59	3.58	3.60	4.02	4.02	4.02	4.04
		Amps	8.2	8.1	8.1	8.2	9.3	9.3	9.3	9.4	10.7	10.7	10.7	10.7	12.1	12.1	12.1	12.2	13.7	13.7	13.7	13.8	15.6	15.6	15.6	15.7
	1100	Hi PR	267	268	270	275	309	310	312	317	353	354	356	361	400	401	403	408	451	453	454	459	506	507	509	514
		Lo PR	125	126	130	135	132	134	137	142	139	141	144	149	145	146	149	155	150	152	155	160	157	159	162	167
		MBh	41.5	42.1	43.3	45.2	41.2	41.7	43.0	44.8	40.1	40.7	41.9	43.8	38.2	38.8	40.1	41.9	36.0	36.6	37.8	39.7	33.9	34.5	35.7	37.6
		S/T	0.82	0.74	0.60	0.45	1.00	0.75	0.61	0.46	1.00	0.77	0.63	0.48	1.00	0.79	0.65	0.50	1.00	0.81	0.67	0.53	1.00	1.00	0.73	0.58
		ΔT	24	22	18	14	24	22	18	14	24	22	18	15	24	22	18	14	23	21	18	14	24	23	19	15
1325	KW	2.32	2.32	2.31	2.33	2.59	2.59	2.59	2.61	2.90	2.90	2.89	2.91	3.23	3.23	3.23	3.25	3.60	3.60	3.60	3.62	4.04	4.04	4.03	4.05	
	Amps	8.2	8.2	8.2	8.3	9.4	9.4	9.4	9.5	10.7	10.7	10.7	10.8	12.2	12.2	12.1	12.2	13.8	13.8	13.8	13.9	15.7	15.7	15.6	15.7	
	Hi PR	269	270	272	277	311	312	314	319	355	356	358	363	402	404	405	410	453	455	457	461	508	509	511	516	
	Lo PR	127	128	131	137	134	136	139	144	141	142	145	151	146	148	151	156	152	153	157	162	159	160	163	169	
	MBh	42.6	43.2	44.5	46.3	42.3	42.9	44.1	46.0	41.2	41.8	43.0	44.9	39.4	40.0	41.2	43.0	37.1	37.7	38.9	40.8	35.1	35.6	36.9	38.7	

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects ACCA (TVA) conditions.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)
 kW = Total system power

IDB		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		59	63	67	71	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																							
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
1700	MBh	57.7	58.5	60.2	-	57.2	58.0	59.7	-	55.7	56.5	58.2	-	53.2	54.0	55.7	-	50.0	50.8	52.5	-	47.2	48.0	49.7	-
	S/T	0.67	0.59	0.45	-	0.67	0.60	0.46	-	0.70	0.62	0.49	-	0.72	0.64	0.51	-	1.00	0.66	0.53	-	1.00	0.71	0.58	-
	ΔT	20	18	14	-	20	18	14	-	20	18	15	-	20	18	14	-	20	18	14	-	21	19	15	-
	KW	3.69	3.69	3.68	-	4.13	4.12	4.12	-	4.61	4.61	4.60	-	5.14	5.14	5.13	-	5.73	5.73	5.72	-	6.42	6.42	6.41	-
	Amps	13.1	13.1	13.0	-	15.0	14.9	14.9	-	17.1	17.1	17.0	-	19.4	19.4	19.3	-	21.9	21.9	21.9	-	24.9	24.9	24.9	-
1800	Hi PR	281	282	284	-	325	326	328	-	371	372	374	-	421	422	424	-	474	475	477	-	531	532	534	-
	Lo PR	123	125	128	-	130	132	135	-	137	138	141	-	142	144	147	-	148	149	152	-	154	156	159	-
	MBh	58.1	58.9	60.6	-	57.6	58.4	60.1	-	56.1	56.9	58.6	-	53.6	54.4	56.1	-	50.4	51.2	52.9	-	47.6	48.4	50.1	-
	S/T	0.69	0.61	0.47	-	0.69	0.62	0.48	-	0.72	0.64	0.50	-	1.00	0.66	0.52	-	1.00	0.68	0.55	-	1.00	0.73	0.60	-
	ΔT	20	18	14	-	20	18	14	-	20	18	14	-	20	18	14	-	19	17	14	-	21	19	15	-
1900	KW	3.70	3.70	3.69	-	4.14	4.13	4.13	-	4.62	4.62	4.61	-	5.15	5.15	5.14	-	5.74	5.74	5.73	-	6.43	6.43	6.42	-
	Amps	13.1	13.1	13.1	-	15.0	15.0	15.0	-	17.1	17.1	17.1	-	19.4	19.4	19.4	-	22.0	22.0	21.9	-	25.0	25.0	24.9	-
	Hi PR	282	283	285	-	326	327	329	-	372	373	375	-	422	423	425	-	475	476	478	-	532	533	535	-
	Lo PR	124	125	129	-	131	133	136	-	138	139	142	-	143	145	148	-	149	150	153	-	155	157	160	-
	MBh	58.6	59.4	61.1	-	58.1	58.9	60.6	-	56.6	57.4	59.1	-	54.0	54.8	56.5	-	50.9	51.7	53.4	-	48.0	48.8	50.5	-

IDB		OUTDOOR AMBIENT TEMPERATURE																							
		65				75				85				95				105				115			
		59	63	67	71	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																							
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
1700	MBh	57.8	58.6	60.3	62.9	57.2	58.0	59.8	62.4	55.8	56.6	58.3	60.9	53.2	54.0	55.7	58.3	50.1	50.9	52.6	55.2	47.2	48.0	49.7	52.3
	S/T	0.80	0.72	0.58	0.44	0.80	0.73	0.59	0.45	1.00	0.75	0.62	0.47	1.00	0.77	0.63	0.49	1.00	0.79	0.66	0.51	1.00	1.00	0.71	0.57
	ΔT	24	22	19	15	24	22	19	15	25	23	19	15	24	22	19	15	24	22	18	15	25	23	20	16
	KW	3.69	3.68	3.68	3.71	4.12	4.12	4.11	4.15	4.61	4.61	4.60	4.63	5.14	5.13	5.13	5.16	5.73	5.72	5.72	5.75	6.42	6.42	6.41	6.44
	Amps	13.1	13.0	13.0	13.2	15.0	14.9	14.9	15.1	17.1	17.1	17.0	17.2	19.4	19.3	19.3	19.5	21.9	21.9	21.9	22.0	24.9	24.9	24.9	25.0
1800	Hi PR	281	282	284	289	325	326	328	333	371	372	374	379	421	422	424	429	474	476	478	482	531	533	535	539
	Lo PR	123	125	128	133	130	132	135	140	137	138	141	147	142	144	147	152	148	149	152	157	154	156	159	164
	MBh	58.2	59.0	60.7	63.3	57.6	58.5	60.2	62.8	56.2	57.0	58.7	61.3	53.6	54.4	56.1	58.7	50.5	51.3	53.0	55.6	47.6	48.4	50.1	52.7
	S/T	0.81	0.74	0.60	0.46	0.82	0.74	0.61	0.47	1.00	0.77	0.63	0.49	1.00	0.79	0.65	0.51	1.00	0.81	0.68	0.53	1.00	1.00	0.73	0.58
	ΔT	24	22	18	15	24	22	18	14	24	22	19	15	24	22	18	14	24	22	18	14	25	23	19	15
1900	KW	3.70	3.69	3.69	3.72	4.13	4.13	4.12	4.16	4.62	4.62	4.61	4.64	5.15	5.14	5.14	5.17	5.74	5.73	5.73	5.76	6.43	6.42	6.42	6.45
	Amps	13.1	13.1	13.0	13.2	15.0	15.0	14.9	15.1	17.1	17.1	17.1	17.2	19.4	19.4	19.4	19.5	22.0	21.9	21.9	22.1	25.0	25.0	24.9	25.1
	Hi PR	282	284	286	290	326	328	329	334	372	374	376	380	422	423	425	430	475	477	479	483	533	534	536	541
	Lo PR	124	125	129	134	131	133	136	141	138	139	142	148	143	145	148	153	149	150	153	158	155	157	160	165
	MBh	58.6	59.4	61.1	63.7	58.1	58.9	60.6	63.2	56.6	57.4	59.1	61.7	54.0	54.8	56.5	59.1	50.9	51.7	53.4	56.0	48.1	48.9	50.6	53.2

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction access fittings.
 Shaded area reflects ACCA (TVA) conditions.
 Amps: Unit amps (comp.+ evaporator + condenser fan motors)
 kW = Total system power

APU1424040M41** - RISE RANGE: 20° - 50°

E.S.P.	T1 FAN ONLY SPEED		T2 HEATING SPEED			T3 HEATING SPEED			T4 COOLING SPEED		T5 COOLING SPEED	
	CFM	WATTS	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS
0.1	600	50	968	132	30	733	65	34	891	109	1156	201
0.2	542	57	914	139	31	703	74	36	845	116	1110	211
0.3	494	67	868	148	33	664	83	38	794	127	1063	220
0.4	423	73	819	157	35	604	91	41	741	133	1015	228
0.5	339	78	768	165	36	536	98	44	694	141	971	235
0.6	284	85	723	175	38	483	105	49	634	149	923	241
0.7	217	91	661	177	40	430	111	x	567	157	881	251
0.8	160	96	590	186	43	381	119	x	506	162	832	259

APU1430060M41** - RISE RANGE: 30° - 60°

E.S.P.	T1 FAN ONLY SPEED		T2 HEATING SPEED			T3 HEATING SPEED			T4 COOLING SPEED		T5 COOLING SPEED	
	CFM	WATTS	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS
0.1	891	113	1196	190	34	891	113	44	1107	189	1285	278
0.2	831	119	1147	197	36	831	119	46	1051	197	1238	284
0.3	780	127	1102	204	37	780	127	47	1006	207	1189	293
0.4	714	135	1054	212	38	714	135	50	963	215	1146	300
0.5	639	146	1009	221	39	639	146	54	906	218	1105	306
0.6	555	153	955	230	40	555	153	60	842	229	1058	314
0.7	502	159	897	238	41	502	159	X	773	237	1011	324
0.8	444	165	828	245	42	444	165	X	690	245	948	329

APU1436060M41** - Rise Range: 30° - 60°

E.S.P.	T1 FAN ONLY SPEED		T2 HEATING SPEED			T3 HEATING SPEED			T4 COOLING SPEED		T5 COOLING SPEED	
	CFM	WATTS	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS
0.1	870	107	1216	228	31	870	107	42	1356	298	1533	408
0.2	792	118	1149	234	32	792	118	44	1296	307	1470	419
0.3	685	130	1083	246	33	685	130	48	1234	316	1416	428
0.4	623	138	1014	252	34	623	138	51	1170	327	1360	434
0.5	549	143	919	265	38	549	143	54	1104	335	1307	446
0.6	479	144	850	272	41	479	144	55	1020	347	1247	455
0.7	411	155	781	280	43	411	155	58	950	353	1177	468
0.8	343	161	717	285	44	343	161	X	879	360	1104	478

APU1442080M41** - RISE RANGE: 30° - 60°

E.S.P.	T1 FAN ONLY SPEED		T2 HEATING SPEED			T3 HEATING SPEED			T4 COOLING SPEED		T5 COOLING SPEED	
	CFM	WATTS	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS
0.1	1090	146	1363	249	40	1304	221	43	1487	317	1637	444
0.2	1024	156	1305	256	42	1242	230	45	1433	327	1593	454
0.3	960	165	1247	269	45	1185	241	46	1378	338	1541	459
0.4	867	173	1189	276	46	1126	249	49	1323	345	1497	473
0.5	791	183	1130	285	48	1054	258	52	1265	356	1450	478
0.6	710	191	1048	294	50	967	270	54	1196	365	1407	485
0.7	644	196	966	305	52	899	278	56	1124	376	1357	493
0.8	587	206	901	315	54	832	285	59	1063	384	1304	502

X = Not recommended for heat application.

Note: The shaded area indicates ranges in excess of maximum external static pressure allowable when heating.

For satisfactory operation, external static pressure should not exceed 0.8" w.c.

APU1448080M41** - RISE RANGE: 30° - 60°

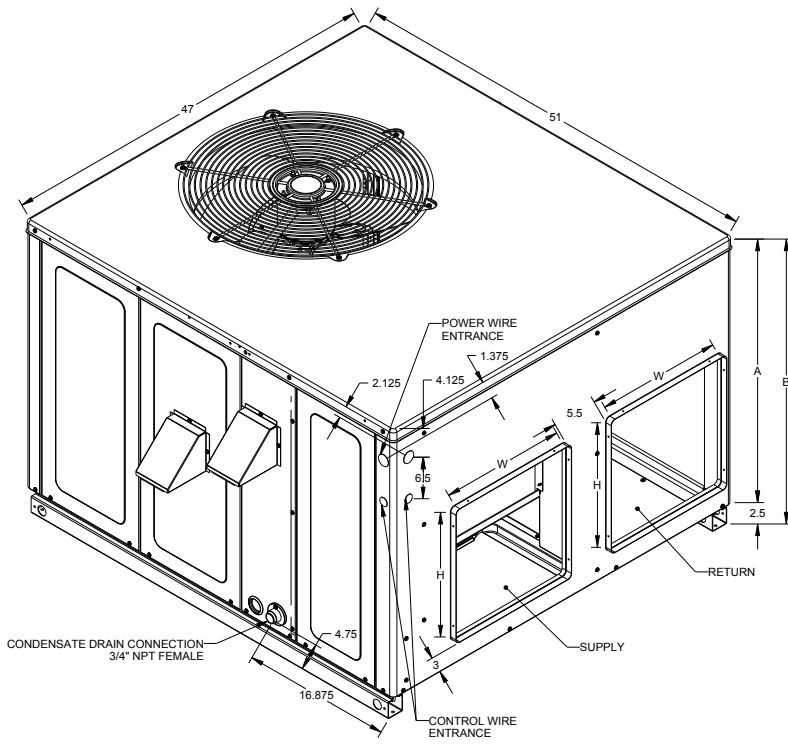
E.S.P.	T1 FAN ONLY SPEED		T2 HEATING SPEED			T3 HEATING SPEED			T4 COOLING SPEED		T5 COOLING SPEED	
	CFM	WATTS	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS
0.1	1090	146	1363	249	40	1304	221	43	1757	487	1928	626
0.2	1024	156	1305	256	42	1242	230	45	1709	502	1874	639
0.3	960	165	1247	269	45	1185	241	46	1662	510	1836	647
0.4	867	173	1189	276	46	1126	249	49	1610	519	1780	658
0.5	791	183	1130	285	48	1054	258	52	1557	532	1735	671
0.6	710	191	1048	294	50	967	270	54	1506	540	1683	677
0.7	644	196	966	305	52	899	278	56	1451	550	1629	686
0.8	587	206	901	315	54	832	285	59	1397	556	1578	693

APU1461080M41** - RISE RANGE: 30° - 60°

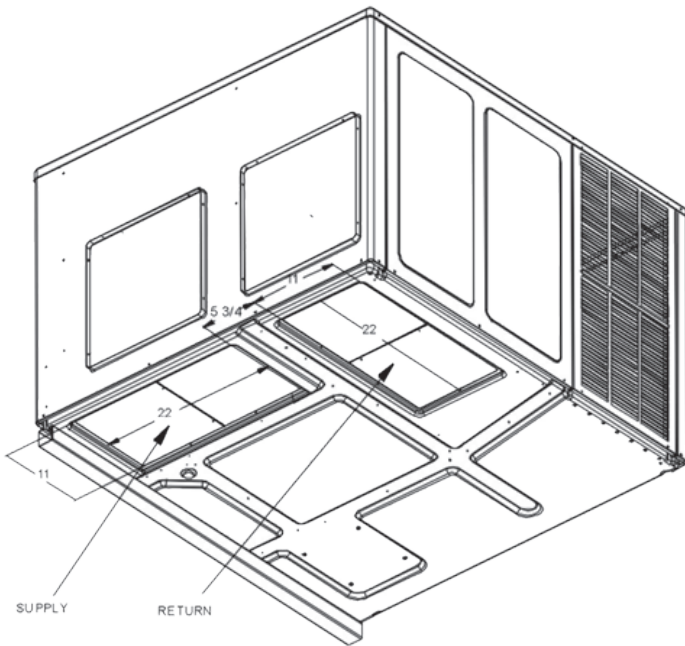
E.S.P.	T1 FAN ONLY SPEED		T2 HEATING SPEED			T3 LOW STAGE COOLING SPEED		T4 HIGH STAGE COOLING SPEED		T5 COOLING SPEED	
	CFM	WATTS	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1156	158	1283	200	42	1283	200	1835	499	1975	602
0.2	1077	163	1224	210	44	1224	210	1787	498	1928	616
0.3	1015	172	1152	216	46	1152	216	1735	517	1877	622
0.4	930	179	1098	228	49	1098	228	1681	525	1837	644
0.5	839	193	1025	236	51	1025	236	1638	537	1782	649
0.6	759	200	945	249	53	945	249	1587	551	1738	660
0.7	697	206	867	264	56	867	264	1544	558	1689	664
0.8	632	216	806	271	61	806	271	1495	572	1634	676

X = Not recommended for heat application.

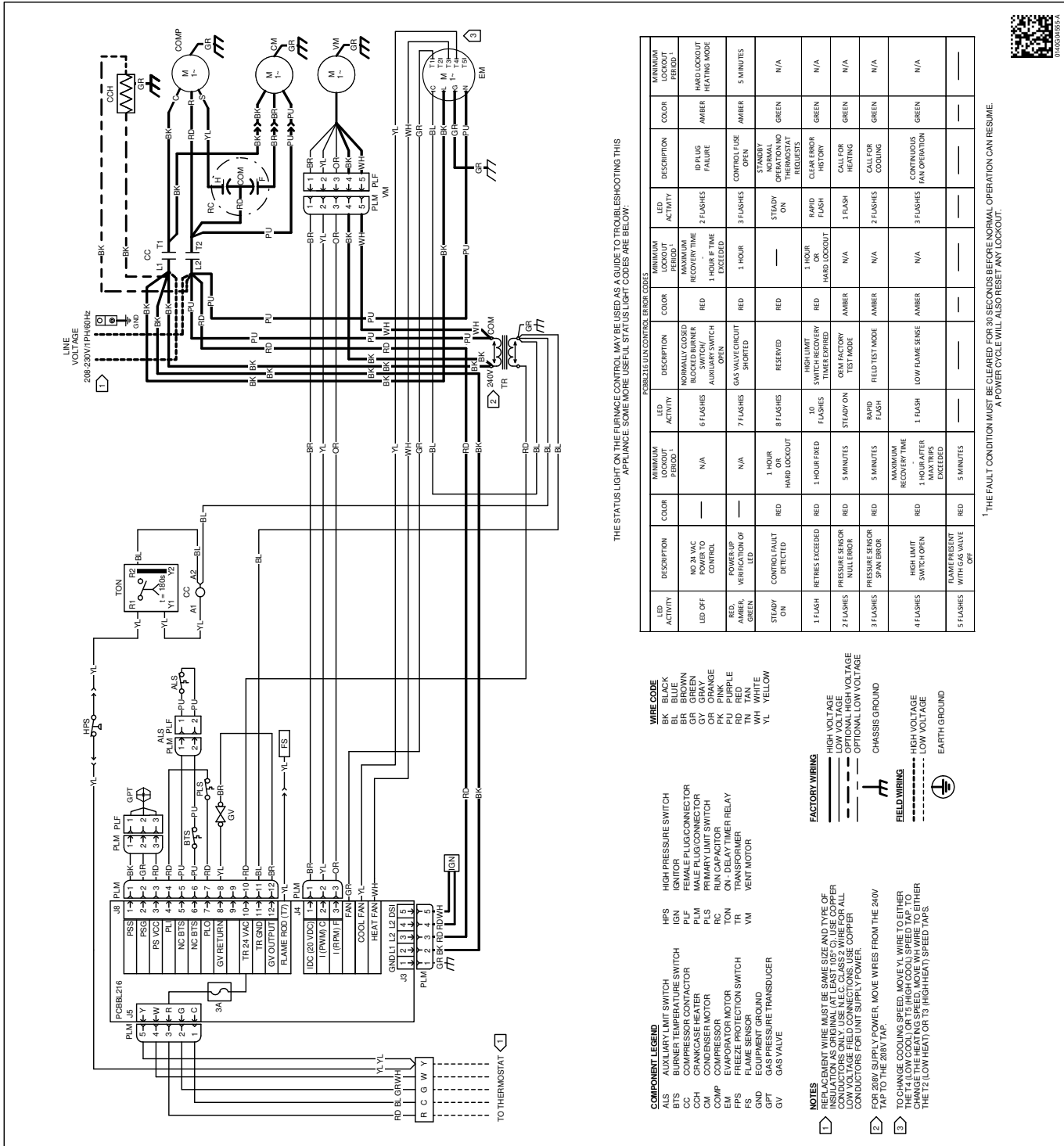
Note: The shaded area indicates ranges in excess of maximum external static pressure allowable when heating. For satisfactory operation, external static pressure should not exceed 0.8" w.c.



MODEL	UNIT DIMENSIONS (INCHES)				CHASSIS SIZE
			HEIGHT		
	W	D	A	B	
APU1424***M41A*	47	51	32	34½	Medium
APU1430***M41A*	47	51	32	34½	Medium
APU1436***M41C*	47	51	32	34½	Medium
APU1442***M41C*	47	51	32	42½	Large
APU1448***M41C*	47	51	40	42½	Large
APU1461***M41A*	47	51	40	42½	Large



MODEL	DUCT OPENINGS			
	SUPPLY		RETURN	
	W	H	W	H
APU1424***M41A*	16	16	16	16
APU1430***M41A*	16	16	16	16
APU1436***M41C*	16	16	16	16
APU1442***M41C*	16	18	16	18
APU1448***M41C*	16	18	16	18
APU1461***M41A*	16	18	16	18



THE STATUS LIGHT ON THE FURNACE CONTROL MAY BE USED AS A GUIDE TO TROUBLESHOOTING THIS APPLIANCE. SOME MORE USEFUL STATUS LIGHT CODES ARE BELOW.

LED ACTIVITY	DESCRIPTION	COLOR	STATUS LIGHT LOCKOUT PERIOD ¹	LED ACTIVITY	DESCRIPTION	COLOR	STATUS LIGHT LOCKOUT PERIOD ¹
LED OFF	NO VAC POWER TO BURNER CONTROL	—	—	6 FLASHES	RECORD BURNER ADJUTARY SWITCH OPEN	RED	1 HOUR IF TIME EXCEEDED
RED, VAC ON GREEN	POWER-UP VERIFICATION OF LED	—	—	7 FLASHES	GAS VALVE CIRCUIT SHORTED	RED	1 HOUR
STEADY ON	CONTROL FAULT DETECTED	RED	1 HOUR HARD LOCKOUT	8 FLASHES	RESERVED	RED	—
1 FLASH	RETURNS EXCEEDED	RED	1 HOUR HARD LOCKOUT	10 FLASHES	HIGH LIMIT EXCEEDED BY TIME EXPIRED	RED	1 HOUR HARD LOCKOUT
2 FLASHES	PRESSURE SENSOR NULL ERROR	RED	5 MINUTES	STEADY ON	CRM FACTORY TEST MODE	AMBER	N/A
3 FLASHES	PRESSURE SENSOR SPAN ERROR	RED	5 MINUTES	RAPID FLASH	FIELD TEST MODE	AMBER	N/A
4 FLASHES	HIGH LIMIT SWITCH OPEN	RED	1 HOUR AFTER MAX TRIPS EXCEEDED	MAXIMUM RECOVERY TIME	LOW FLAME SENSE	AMBER	N/A
5 FLASHES	FLAME PRESENT WITH GAS VALVE OFF	RED	5 MINUTES	—	—	—	—

¹ THE FAULT CONDITION MUST BE CLEARED FOR 90 SECONDS BEFORE NORMAL OPERATION CAN RESUME. A POWER CYCLE WILL ALSO RESET ANY LOCKOUT.

- WIRE CODE**
 BK BLAKE
 BL BLUE
 BR BROWN
 BV BROWN
 GR GRAY
 OR ORANGE
 PK PINK
 PL PINK
 RD RED
 TN TAN
 WH WHITE
 YL YELLOW

- COMPONENT LEGEND**
 ALS LOCAL BURNER LIMIT SWITCH
 BTS BURNER TEMPERATURE SWITCH
 CC COMPRESSOR CONTACTOR
 CCH CRANKCASE HEATER
 CM CONDENSER MOTOR
 COM COMPRESSOR MOTOR
 ELP EQUIPMENT LEAK PROTECTION SWITCH
 FFS FREEZE PROTECTION SWITCH
 FLS FLAME SENSOR
 GND EQUIPMENT GROUND
 GPT GAS PRESSURE TRANSDUCER
 GV GAS VALVE
 HPS HIGH PRESSURE SWITCH
 IGN IGNITOR
 PLF FEMALE PLUG CONNECTOR
 PLS MALE PLUG CONNECTOR
 PLS PRIMARY LIMIT SWITCH
 RC RUN CAPACITOR
 TR THERMOSTAT
 TR TRANSFORMER
 VM VENT MOTOR

- FACTORY WIRING**
 ——— HIGH VOLTAGE
 ——— LOW VOLTAGE
 - - - - - OPTIONAL HIGH VOLTAGE
 - - - - - OPTIONAL LOW VOLTAGE
 CHASSIS GROUND
- FIELD WIRING**
 ——— HIGH VOLTAGE
 - - - - - LOW VOLTAGE
 EARTH GROUND

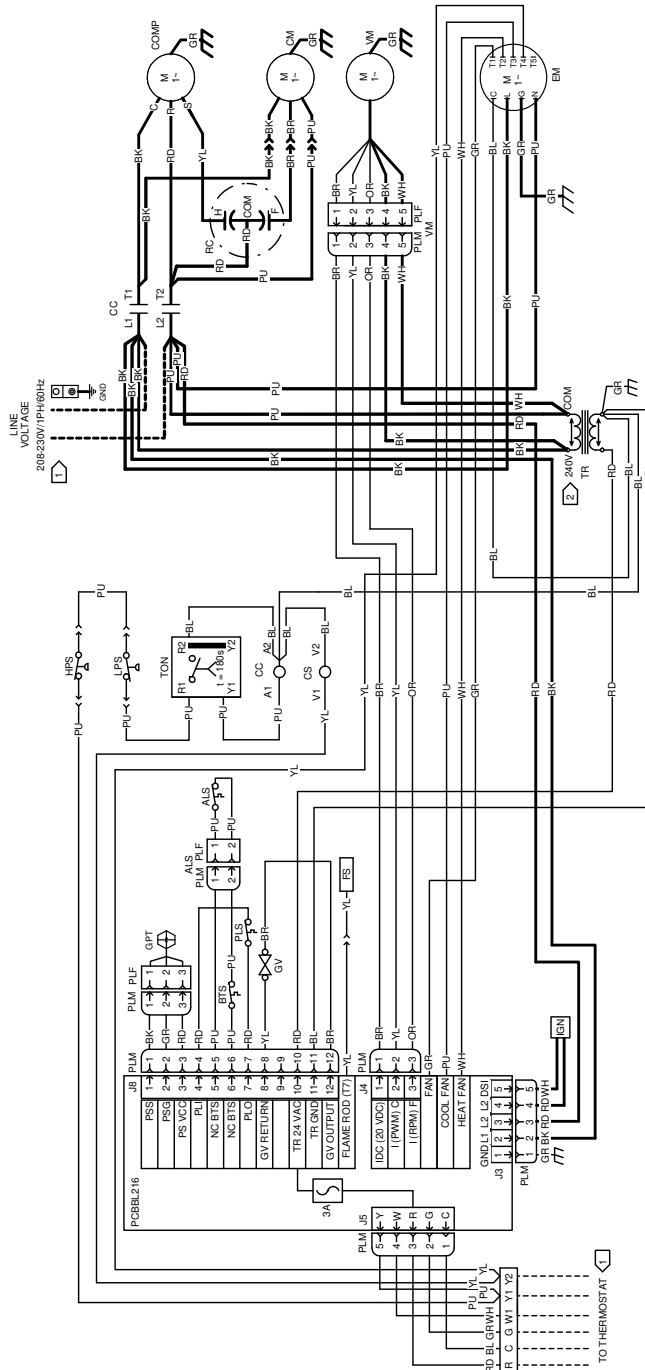
- NOTES**
 1 REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (AT LEAST 105°C). USE COPPER WIRE FOR ALL FIELD CONNECTIONS. USE COPPER CONDUCTORS FOR UNIT SUPPLY POWER.
 2 FOR 208V SUPPLY POWER, MOVE WIRES FROM THE 200V TAP TO THE 208V TAP.
 3 TO CHANGE COOLING SPEED, MOVE YL WIRE TO EITHER THE T4 (LOW COOL) OR T5 (HIGH COOL) SPEED TAP. TO INCREASE SPEED, MOVE YL WIRE TO EITHER THE T2 (LOW HEAT) OR T3 (HIGH HEAT) SPEED TAP.



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



THE STATUS LIGHT ON THE FURNACE CONTROL MAY BE USED AS A GUIDE TO TROUBLESHOOTING THIS APPLIANCE. SOME MORE USEFUL STATUS LIGHT CODES ARE LISTED.

LED ACTIVITY	DESCRIPTION	COLOR	MAXIMUM LOCKOUT PERIOD ¹	ACTIVITY	DESCRIPTION	COLOR	MAXIMUM LOCKOUT PERIOD ¹	ACTIVITY	DESCRIPTION	COLOR	MAXIMUM LOCKOUT PERIOD ¹
LED OFF	NO 24VAC POWER TO CONTROL	---	N/A	6 FLASHES	NORMALLY CLOSED ELECTRIC SWITCH AUXILIARY SWITCH OPEN	RED	RECOVER TIME 1 HOUR IF TIME EXCEEDED	2 FLASHES	ID PLUG FAILURE	AMBER	HAND LOCKOUT HEATING MODE
RED AMBER GREEN	POWER-UP OF AMBER LED	---	N/A	7 FLASHES	GAS VALVE CIRCUIT SHORTED	RED	1 HOUR	3 FLASHES	CONTROL FUSE OPEN	AMBER	5 MINUTES
STEADY ON	CONTROL FAULT DETECTED	RED	1 HOUR	8 FLASHES	RESERVED	RED	---	STEADY ON	NORMAL NO THERMOSTAT REQUESTS	GREEN	N/A
1 FLASH	RETURNS EXCEEDED	RED	1 HOUR (RED)	10 FLASHES	HIGH LIMIT SWITCH/TIMERS EXPIRED	RED	1 HOUR	RAPID FLASH	CLEAR ERROR HISTORY	GREEN	N/A
2 FLASHES	PRESSURE SENSOR NULL ERROR	RED	5 MINUTES	STADY ON	ODM FACTORY TEST MODE	AMBER	N/A	1 FLASH	CALL FOR HEATING	GREEN	N/A
3 FLASHES	PRESSURE SENSOR SPAN ERROR	RED	5 MINUTES	RAPID FLASH	FIELD TEST MODE	AMBER	N/A	2 FLASHES	CALL FOR COOLING	GREEN	N/A
4 FLASHES	HIGH LIMIT SWITCH OPEN	RED	MAXIMUM RECOVER TIME 1 HOUR AFTER EXCEEDED	1 FLASH	LOW FLAME SENSE	AMBER	N/A	3 FLASHES	CONTINUOUS FAN OPERATION	GREEN	N/A
5 FLASHES	FLAME PRESENT WITH GAS VALVE OFF	RED	5 MINUTES	---	---	---	---	---	---	---	---

¹ THE FAULT CONDITION MUST BE CLEARED FOR 30 SECONDS BEFORE NORMAL OPERATION CAN RESUME. A POWER CYCLE WILL ALSO RESET ANY LOCKOUT.

WIRE CODE

- BK BLACK
- BL BLUE
- BR BROWN
- GY GRAY
- OR ORANGE
- PK PINK
- RD RED
- TN TAN
- WH WHITE
- YL YELLOW

COMPONENT LEGEND

- ALS AUXILIARY LIMIT SWITCH
- BTS BURNER TEMPERATURE SWITCH
- CC COMPRESSOR CONTACTOR
- CCH CRANKCASE HEATER
- COMP COMPRESSOR MOTOR
- COMP COMPRESSOR
- EM EVAPORATOR MOTOR
- FPS FREEZE PROTECTION SWITCH
- FS FLAME SENSOR
- GRND GROUND
- GPT GAS PRESSURE TRANSDUCER
- GV GAS VALVE
- HPS HIGH PRESSURE SWITCH
- IGN IGNITOR
- LPS LOW PRESSURE SWITCH
- PLM PLM FLOW METER
- PLM PLM MAKE/BREAK
- PLS PRIMARY LIMIT SWITCH
- RC RUN CAPACITOR
- TON ON-DELAY TIMER RELAY
- TR TRANSFORMER
- VM VENT MOTOR

FACTORY WIRING

- HIGH VOLTAGE
- LOW VOLTAGE
- OPTIONAL HIGH VOLTAGE
- OPTIONAL LOW VOLTAGE
- CHASSIS GROUND

FIELD WIRING

- HIGH VOLTAGE
- LOW VOLTAGE
- EARTH GROUND

NOTES

- 1 REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (AT LEAST 18 AWG COPPER).
- 2 LOW VOLTAGE FIELD CONNECTIONS USE COPPER CONDUCTORS FOR UNIT SUPPLY POWER.
- FOR 208V SUPPLY POWER, MOVE WIRES FROM THE 240V TAP TO THE 208V TAP.



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

ACCESSORY DESCRIPTION	PARTS NUMBERS	
	MEDIUM CHASSIS	LARGE CHASSIS
Concentric Kit	CDK36	CDK4872
Downflow Economizer	PGEDJ101/102	PGEDJ103
Downflow Internal Filter Rack (with economizer)	DDNIFRPGMM	N/A (built into economizer)
Downflow Internal Filter Rack (no economizer)	DDNIFRPGA	DDNIFRPGA
Downflow Manual Damper	PGMDD101/102	PGMDD103
Downflow Motorized Damper	PGMDMD101/102	PGMDMD103
Downflow Square to Round	SQRPG101/102	SQRPG103
Economizer Wiring Harness (2-4 Tons)	0259G00214	0259G00214
Economizer Wiring Harness (5 Tons)	N/A	0259L00412
External Horizontal Filter Rack	DPHFRA	DPHFRA
Horizontal Duct Cover	20464501PDGK	20464502PDGK
Horizontal Economizer	DHZECNJP GCHM	DHZECNJP GCHL
Horizontal Manual Damper	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH102	PGMDMH103
Horizontal Square to Round	SQRPGH101/102	SQRPGH103
Internal Horizontal Filter Rack	DHZIFRPGCHA	DHZIFRPGCHA
Outdoor Thermostat with Housing	OTDFPKG-01	OTDFPKG-01
Roof Curb	D14CRBPGCHMA	D14CRBPGCHMA

