



Air Conditioning & Heating

# GPD14M

**COOLING CAPACITY:** 23,800 – 45,500 BTU/H  
**HEATING CAPACITY:** 60,000 – 138,000 BTU/H

**SINGLE-PHASE, SELF-CONTAINED  
PACKAGED DUAL-FUEL UNITS  
UP TO 14.5 SEER  
81% AFUE / 8.0 HSPF**



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### Standard Features

- Combines cooling with heat pump and gas heating for optimal year-long performance
- Durable, corrosion-resistant T-140 aluminized steel tubular heat exchanger
- Heavy-duty aluminized-steel heat exchanger
- Multi-speed ECM indoor blower motor
- All-Aluminum evaporator coil
- Copper tube/aluminum fin coil
- Two-stage gas valve; natural gas with easy conversion to propane with accessory kit
- Power-assisted combustion
- Loss-of-charge protection
- 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
- All models comply with California Low NOx emission standards
- AHRI Certified; ETL Listed

### Cabinet Features

- Fully insulated heavy-gauge, zinc-coated steel cabinet with UV-resistant powder-paint finish
- Compressor sound blanket
- Louvered metal panel condenser coil protection
- Horizontal or downflow application
- Convenient access panels
- One roof curb fits all units
- Bottom, 2" high base rails for easy handling
- All models fit a standard-size pick-up truck
- When properly anchored, meets the 2010 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)



\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.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 Quebec.

	<b>G</b>	<b>P</b>	<b>D</b>	<b>14</b>	<b>36</b>	<b>090</b>	<b>M</b>	<b>4</b>	<b>1</b>	<b>**</b>		
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4,5</b>	<b>6,7</b>	<b>8,9,10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14,15</b>		
<b>Brand</b>	G Goodman® brand										<b>Engineering</b>	
											Major/ Minor Revisions	
<b>Product Category</b>	P Packaged Unit										<b>Electrical</b>	
											1 208-230/1/60	
<b>Unit Type</b>	G Gas/Electric										<b>Refrigerant</b>	
	D Dual-Fuel										4 R-410A	
<b>Efficiency</b>	14 14 SEER										<b>Airflow</b>	
	16 16 SEER										M Multi-Position	
<b>Nominal Capacity</b>											<b>Heat Input</b>	
	24 2 Tons	36 3 Tons	42 3½ Tons								60 60 MBTU/h	100 100 MBTU/h
	30 2½ tons	37 3 Tons	48 4 Tons								70 69 MBTU/h	115 115 MBTU/h
											80 80 MBTU/h	120 120 MBTU/h
											90 92 MBTU/h	140 138 MBTU/h

	GPD1424 060M41A*	GPD1430 080M41A*	GPD1436 080M41A*	GPD1442 100M41A*	GPD1448 100M41A*
<b>COOLING</b>					
Cooling Capacity, BTU/hr	23,800	28,000	34,000	41,500	45,500
Sensible Capacity, BTU/hr	19,300	23,000	24,400	32,000	34,600
SEER / EER	14.5 / 12.0	14.0 / 12.0	14.0 / 12.0	14.0 / 12.0	14.0 / 12.0
Decibels	76	76	76	76	76
AHRI # <sup>1</sup> S	8032961	8032962	8032963	8032964	8032965
<b>HEATING</b>					
Heating Capacity, BTU/hr (47°F / 17°F)	23,800 / 13,000	28,000 / 16,000	34,000 / 19,800	40,000 / 24,000	44,000 / 24,600
C.O.P. (47°F / 17°F)	3.6 / 2.3	3.6 / 2.3	3.6 / 2.4	3.6 / 2.4	3.6 / 2.4
HSPF	8.0	8.0	8.0	8.0	8.0
<b>GAS HEATING</b>					
High-Fire Input/Output (BTU/hr)	60,000 / 49,000	80,000 / 65,000	80,000 / 65,000	100,000 / 81,000	100,000 / 81,000
Low-Fire Input/Output (BTU/hr)	45,000 / 36,000	60,000 / 49,000	60,000 / 49,000	75,000 / 61,000	75,000 / 61,000
AFUE (%)	81	81	81	81	81
Temperature Rise Range (°F)	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65
# of Burners	3	4	4	5	5
Orifice Size (Natural / LP)	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM
Primary/Auxiliary Limit Setting (°F)	160/150	150/150	150/150	170/150	170/150
Roll-out Limit Setting (°F)	300	350	350	350	350
<b>EVAPORATOR COIL</b>					
Face Area (ft <sup>2</sup> )	4.3	4.3	4.3	5.7	5.7
# Rows / Fins per Inch	3 / 16	3 / 16	4 / 14	4 / 14	4 / 14
Expansion Device (Orifice Diameter in.)	0.059	0.065	0.068	0.072	0.076
Filter Size (ft <sup>2</sup> ) / Drain Size (NPT)	2.7 / ¼	4.2 / ¼	4.2 / ¼	5.1 / ¼	5.1 / ¼
Refrigerant Charge - R-410A (oz)	120	108	124	206	185
<b>EVAPORATOR MOTOR</b>					
Wheel (D x W)	10" x 8"	10" x 9"	10" x 9"	11" x 10"	11" x 10"
Type / # of Speeds	EEM / 5	EEM / 5	EEM / 5	EEM / 5	EEM / 5
Motor Horsepower / FLA	½ / 4.1	½ / 1.86	½ / 1.86	¾ / 2.87	¾ / 2.87
Motor Speed Tap (Cooling and Heat Pump)	T4	T4	T4	T4	T4
RPM (Cooling and Heat Pump)	755	810	880	880	950
Nominal CFM (Cooling and Heat Pump)	850	1,030	1,200	1,370	1,300
<b>CONDENSER COIL</b>					
Face Area (ft <sup>2</sup> )	12.2	12.2	12.2	15.3	15.3
# Rows / Fins per Inch	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16
Expansion Device (Orifice Diameter in.)	0.045	0.047	0.061	0.055	0.057
<b>CONDENSER MOTOR / FAN</b>					
Fan Diameter / # of Blades	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3
Outdoor Nominal CFM	2,100	2,500	2,500	3,150	3,200
Motor Horsepower - RPM	1/6 - 815	1/4 - 837	1/4 - 837	1/4 - 1094	1/4 - 1094
Motor FLA	1.1	1.5	1.5	1.4	1.4
<b>COMPRESSOR</b>					
Type / Stage	Scroll / Single	Scroll / Single	Scroll / Single	Scroll / Single	Scroll / Single
Run Load Amps / Locked Rotor Amps	12.8 / 58.3	14.1 / 73.0	16.6 / 79.0	17.9 / 112.0	19.8 / 109.0
<b>ELECTRICAL SPECIFICATIONS</b>					
Voltage / Phase (60 Hz)	208-230/1	208-230/1	208-230/1	208-230/1	208-230/1
Total Unit Amps	18.0	17.5	20.0	22.2	24.1
Minimum Circuit Ampacity	21.2	21	24.2	26.7	29.1
Maximum Overcurrent Protection	30	35	40	40	45
Entrance Size Power Supply	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
<b>OPERATING / SHIPPING WEIGHT (LBS)</b>					
	420 / 440	420 / 440	440 / 460	525 / 545	525 / 545

<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.

		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	59	63	67
<b>70</b>	<b>955</b>	MBh	24.1	25.0	27.4	-	23.5	24.4	26.7	-	23.0	23.8	26.1	-	22.4	23.2	25.5	-	21.3	22.1	24.2	-	19.7	20.5	22.4	-
		S/T	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.87	0.73	0.50	-	0.90	0.75	0.52	-	0.93	0.78	0.54	-	0.94	0.78	0.54	-
		ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-
		kW	1.56	1.59	1.64	-	1.68	1.72	1.78	-	1.79	1.83	1.89	-	1.89	1.93	2.00	-	1.97	2.02	2.08	-	2.04	2.09	2.16	-
		Amps	6.5	6.6	6.8	-	6.9	7.1	7.3	-	7.5	7.7	7.9	-	8.0	8.2	8.4	-	8.5	8.7	8.9	-	8.9	9.2	9.4	-
	<b>850</b>	HI PR	232	250	264	-	260	280	296	-	296	319	336	-	337	363	383	-	379	408	431	-	419	451	476	-
		LO PR	111	118	129	-	117	125	136	-	122	130	141	-	128	136	149	-	134	143	156	-	139	148	161	-
		MBh	23.4	24.3	26.6	-	22.9	23.7	26.0	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	20.7	21.4	23.5	-	19.2	19.9	21.8	-
		S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.71	0.49	-	0.89	0.74	0.51	-	0.90	0.75	0.52	-
		ΔT	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	16	12	-
<b>745</b>	kW	1.54	1.58	1.63	-	1.67	1.71	1.76	-	1.78	1.82	1.88	-	1.87	1.91	1.98	-	1.95	2.00	2.07	-	2.02	2.07	2.14	-	
	Amps	6.4	6.5	6.7	-	6.9	7.0	7.3	-	7.4	7.6	7.8	-	7.9	8.1	8.4	-	8.4	8.6	8.9	-	8.9	9.1	9.4	-	
	HI PR	230	247	261	-	258	277	293	-	293	315	333	-	334	359	379	-	376	404	427	-	415	446	471	-	
	LO PR	110	117	128	-	116	123	135	-	121	128	140	-	127	135	147	-	133	141	154	-	137	146	159	-	
	MBh	21.6	22.4	24.5	-	21.1	21.9	24.0	-	20.6	21.3	23.4	-	20.1	20.8	22.8	-	19.1	19.8	21.7	-	17.7	18.3	20.1	-	

<b>75</b>	<b>955</b>	MBh	24.5	25.2	27.3	29.3	23.9	24.7	26.7	28.6	23.4	24.1	26.1	28.0	22.8	23.5	25.4	27.3	21.7	22.3	24.1	25.9	20.1	20.7	22.4	24.0	
		S/T	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.99	0.88	0.67	0.43	1.00	0.91	0.69	0.44	0.97	0.87	0.66	0.42	0.97	0.91	0.69	0.44	
		ΔT	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	23	21	17	12	23	21	17	12	21
		kW	1.57	1.61	1.66	1.71	1.70	1.73	1.79	1.85	1.81	1.85	1.91	1.98	1.90	1.90	1.95	2.01	2.08	1.99	2.03	2.10	2.18	2.06	2.11	2.18	2.26
		Amps	6.5	6.7	6.9	7.1	7.0	7.2	7.4	7.6	7.6	7.7	8.0	8.3	8.1	8.2	8.5	8.8	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.9
	<b>850</b>	HI PR	234	252	266	278	263	283	299	312	299	322	340	354	341	366	387	404	366	383	412	435	454	423	456	481	502
		LO PR	112	119	130	139	118	126	137	146	123	131	143	152	129	137	150	160	129	135	144	157	168	140	149	163	173
		MBh	23.8	24.5	26.5	28.5	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	22.1	21.0	21.7	23.4	25.2	19.5	20.1	21.7	23.3
		S/T	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.97	0.90	0.68	0.44	1.00	0.91	0.69	0.44	
		ΔT	23	21	17	12	23	21	17	12	23	21	17	12	23	21	18	12	23	23	21	17	12	21	20	16	11
<b>745</b>	kW	1.56	1.59	1.64	1.70	1.68	1.72	1.78	1.84	1.79	1.83	1.89	1.96	1.89	1.89	1.93	2.00	2.07	1.97	2.02	2.08	2.16	2.04	2.09	2.16	2.24	
	Amps	6.5	6.6	6.8	7.0	6.9	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.0	8.4	8.7	8.8	8.4	8.5	8.7	8.9	9.3	8.9	9.2	9.4	9.8	
	HI PR	232	250	264	275	260	280	296	309	296	319	336	351	337	363	383	400	337	379	408	431	450	419	451	476	497	
	LO PR	111	118	129	137	117	125	136	145	122	130	141	151	128	136	149	158	128	134	143	156	166	139	148	161	172	
	MBh	22.0	22.6	24.5	26.3	21.5	22.1	23.9	25.7	20.9	21.6	23.3	25.1	20.4	21.0	22.8	24.4	20.4	19.4	20.0	21.6	23.2	18.0	18.5	20.0	21.5	

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



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	1170	MBh	28.0	29.0	31.8	-	27.3	28.3	31.0	-	26.7	27.6	30.3	-	26.0	27.0	29.6	-	24.7	25.6	28.1	-	22.9	23.7	26.0	-
		S/T	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.73	0.51	-	0.90	0.76	0.52	-	0.94	0.78	0.54	-	0.95	0.79	0.55	-
		ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		kW	1.87	1.90	1.96	-	2.01	2.05	2.11	-	2.13	2.18	2.25	-	2.24	2.29	2.37	-	2.34	2.39	2.47	-	2.42	2.47	2.55	-
		Amps	8.2	8.4	8.6	-	8.8	8.9	9.2	-	9.4	9.6	9.9	-	10.0	10.2	10.5	-	10.5	10.7	11.0	-	11.0	11.3	11.6	-
	1040	HI PR	225	242	256	-	253	272	287	-	287	309	326	-	327	352	372	-	368	396	418	-	407	438	462	-
		LO PR	111	118	129	-	117	124	136	-	122	129	141	-	128	136	148	-	134	142	155	-	138	147	161	-
		MBh	27.2	28.2	30.8	-	26.5	27.5	30.1	-	25.9	26.8	29.4	-	25.3	26.2	28.7	-	24.0	24.9	27.3	-	22.2	23.0	25.2	-
		S/T	0.79	0.66	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.86	0.72	0.50	-	0.89	0.75	0.52	-	0.90	0.75	0.52	-
		ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-
910	kW	1.85	1.89	1.95	-	1.99	2.03	2.10	-	2.12	2.16	2.23	-	2.22	2.27	2.35	-	2.32	2.37	2.45	-	2.40	2.45	2.53	-	
	Amps	8.2	8.3	8.5	-	8.7	8.9	9.1	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-	10.4	10.6	10.9	-	11.0	11.2	11.5	-	
	HI PR	223	240	253	-	250	269	284	-	284	306	323	-	324	349	368	-	365	392	414	-	403	433	458	-	
	LO PR	110	117	127	-	116	123	135	-	120	128	140	-	126	135	147	-	133	141	154	-	137	146	159	-	
	MBh	25.1	26.0	28.5	-	24.5	25.4	27.8	-	23.9	24.8	27.1	-	23.3	24.2	26.5	-	22.2	23.0	25.2	-	20.5	21.3	23.3	-	

75	1170	MBh	28.4	29.3	31.7	34.0	27.8	28.6	31.0	33.2	27.1	27.9	30.2	32.4	26.5	27.2	29.5	31.7	25.1	25.9	28.0	30.1	23.3	24.0	26.0	27.9	
		S/T	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	1.00	0.91	0.69	0.44	1.00	0.92	0.69	0.45	
		ΔT	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	20	19	16	11	18	18	15	10
		kW	1.88	1.92	1.98	2.04	2.02	2.07	2.13	2.20	2.15	2.20	2.27	2.34	2.26	2.31	2.39	2.47	2.36	2.41	2.49	2.57	2.44	2.49	2.57	2.66	2.66
		Amps	8.3	8.4	8.7	8.9	8.8	9.0	9.3	9.6	9.5	9.7	9.9	10.3	10.0	10.2	10.5	10.9	10.6	10.8	11.1	11.5	11.1	11.4	11.7	12.1	12.1
	1040	HI PR	227	245	258	270	255	275	290	302	290	312	330	344	331	356	376	392	372	400	423	441	411	442	467	487	
		LO PR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	162	173	
		MBh	27.6	28.4	30.8	33.0	27.0	27.8	30.1	32.3	26.3	27.1	29.3	31.5	25.7	26.5	28.6	30.7	24.4	25.1	27.2	29.2	22.6	23.3	25.2	27.0	
		S/T	0.89	0.80	0.60	0.39	0.93	0.83	0.63	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	1.00	0.91	0.69	0.44	1.00	0.92	0.69	0.45	
		ΔT	22	20	16	11	22	20	17	12	22	20	17	12	22	20	17	12	22	20	17	11	20	19	15	11	
910	kW	1.87	1.90	1.96	2.03	2.01	2.05	2.12	2.18	2.13	2.18	2.25	2.32	2.24	2.29	2.37	2.44	2.34	2.39	2.47	2.55	2.42	2.47	2.55	2.64		
	Amps	8.2	8.4	8.6	8.9	8.8	8.9	9.2	9.5	9.4	9.6	9.9	10.2	10.0	10.2	10.5	10.8	10.5	10.7	11.0	11.4	11.0	11.3	11.6	12.0		
	HI PR	225	242	256	267	253	272	287	299	287	309	327	341	327	352	372	388	368	396	418	436	407	438	462	482		
	LO PR	111	118	129	137	117	125	136	145	122	129	141	150	128	136	148	158	134	142	156	166	139	147	161	171		
	MBh	25.5	26.2	28.4	30.5	24.9	25.6	27.8	29.8	24.3	25.0	27.1	29.1	23.7	24.4	26.4	28.4	22.5	23.2	25.1	26.9	20.9	21.5	23.3	25.0		

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

IDB		OUTDOOR AMBIENT TEMPERATURE																													
		65°F					75°F					85°F					95°F					105°F					115°F				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
	<b>AIRFLOW</b>	29.0	29.6	31.6	33.8	28.3	28.9	30.9	33.0	27.6	28.2	30.1	32.2	26.9	27.5	29.4	31.4	25.6	26.1	27.9	29.9	25.6	26.1	27.9	29.9	23.7	24.2	25.9	27.7		
<b>1170</b>	MBh	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.83	0.62	1.00	1.00	0.86	0.64	1.00	1.00	0.89	0.67	1.00	1.00	0.89	0.67	1.00	1.00	0.90	0.67		
	S/T	2.3	2.2	1.9	1.6	2.2	2.3	2.0	1.6	2.2	2.2	2.0	1.6	2.1	2.2	2.0	1.6	2.0	2.1	2.0	1.6	2.0	2.1	2.0	1.6	1.9	1.9	1.8	1.5		
	$\Delta T$	1.90	1.94	2.00	2.06	2.04	2.08	2.15	2.22	2.17	2.21	2.29	2.36	2.28	2.33	2.41	2.49	2.38	2.43	2.51	2.59	2.38	2.43	2.51	2.59	2.46	2.51	2.60	2.68		
	kW	8.3	8.5	8.7	9.0	8.9	9.1	9.3	9.6	9.6	9.7	10.0	10.4	10.1	10.3	10.6	11.0	10.7	10.9	11.2	11.6	10.7	10.9	11.2	11.6	11.2	11.5	11.8	12.2		
	Amps	230	247	261	272	258	277	293	306	293	316	333	347	334	359	379	396	376	404	427	445	376	404	427	445	415	447	472	492		
<b>80</b>	HI/PR	113	120	131	140	119	127	139	148	124	132	144	154	130	139	151	161	137	145	159	169	137	145	159	169	141	150	164	175		
	LO/PR	28.1	28.7	30.7	32.8	27.5	28.1	30.0	32.0	26.8	27.4	29.3	31.3	26.2	26.7	<b>28.5</b>	30.5	24.8	25.4	27.1	29.0	24.8	25.4	27.1	29.0	23.0	23.5	25.1	26.9		
	MBh	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.98	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.85	0.64	1.00	1.00	0.85	0.64	1.00	1.00	0.86	0.64		
	S/T	2.4	2.3	2.0	1.6	2.4	2.4	2.1	1.6	2.4	2.4	2.1	1.6	2.3	2.4	<b>2.1</b>	1.7	2.2	2.2	2.0	1.6	2.2	2.2	2.0	1.6	2.0	2.1	1.9	1.5		
	$\Delta T$	1.88	1.92	1.98	2.04	2.02	2.07	2.13	2.20	2.15	2.20	2.27	2.34	2.26	2.31	<b>2.39</b>	2.47	2.36	2.41	2.49	2.57	2.36	2.41	2.49	2.57	2.44	2.49	2.57	2.66		
<b>910</b>	kW	8.3	8.4	8.7	8.9	8.8	9.0	9.3	9.6	9.5	9.7	9.9	10.3	10.0	10.2	<b>10.5</b>	10.9	10.6	10.8	11.1	11.5	10.6	10.8	11.1	11.5	11.1	11.4	11.7	12.1		
	Amps	227	245	258	270	255	275	290	303	290	312	330	344	331	356	<b>376</b>	392	372	400	423	441	372	400	423	441	411	442	467	487		
	HI/PR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	<b>150</b>	160	135	144	157	167	135	144	157	167	140	149	162	173		
	LO/PR	25.9	26.5	28.3	30.3	25.3	25.9	27.7	29.6	24.7	25.3	27.0	28.9	24.1	24.7	26.4	28.2	22.9	23.4	25.0	26.8	22.9	23.4	25.0	26.8	21.2	21.7	23.2	24.8		
	S/T	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.04	0.97	0.79	0.59	1.08	1.01	0.82	0.61	1.08	1.01	0.82	0.61	1.00	1.02	0.83	0.62		
<b>910</b>	$\Delta T$	2.5	2.4	2.1	1.6	2.5	2.4	2.1	1.7	2.5	2.4	2.1	1.7	2.5	2.4	<b>2.1</b>	1.7	2.5	2.4	2.1	1.7	2.5	2.4	2.1	1.7	2.1	2.1	2.2	1.9		
	kW	1.84	1.87	1.93	1.99	1.98	2.02	2.08	2.15	2.10	2.14	2.21	2.28	2.21	2.25	2.33	2.40	2.30	2.35	2.42	2.51	2.30	2.35	2.42	2.51	2.38	2.43	2.51	2.59		
	Amps	8.1	8.3	8.5	8.7	8.6	8.8	9.1	9.3	9.3	9.4	9.7	10.0	9.8	10.0	10.3	10.6	10.3	10.6	10.9	11.2	10.3	10.6	10.9	11.2	10.9	11.1	11.4	11.8		
	HI/PR	221	237	251	262	248	266	281	293	282	303	320	334	321	345	364	380	361	388	410	428	361	388	410	428	399	429	453	472		
	LO/PR	109	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	131	140	152	162	136	144	158	168		

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





IDB		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
<b>80</b>	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
	MBh	36.0	36.8	39.3	42.0	35.1	35.9	38.4	41.0	34.3	35.1	37.5	40.0	33.5	34.2	36.5	39.1	31.8	32.5	34.7	37.1	29.5	30.1	32.2	34.4
	S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.79	0.59
	ΔT	26	25	21	17	26	25	22	17	26	25	22	17	26	25	22	17	25	25	21	17	23	24	20	16
	kW	2.36	2.41	2.49	2.57	2.55	2.61	2.69	2.78	2.71	2.78	2.87	2.97	2.86	2.93	3.02	3.13	2.98	3.05	3.16	3.27	3.09	3.16	3.27	3.38
	Amps	10.5	10.7	11.0	11.4	11.2	11.4	11.8	12.2	12.1	12.3	12.7	13.1	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7	14.2	14.6	15.0	15.5
	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	524
	LO PR	111	118	128	137	117	124	136	145	121	129	141	150	128	136	148	158	134	142	155	165	138	147	161	171
	MBh	34.9	35.7	38.1	40.8	34.1	34.9	37.3	39.8	33.3	34.0	36.4	38.9	32.5	33.2	35.5	37.9	30.9	31.5	33.7	36.0	28.6	29.2	31.2	33.4
	S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.57
ΔT	27	26	22	18	27	26	22	18	27	26	23	18	27	26	23	18	27	26	22	18	25	24	21	17	
kW	2.34	2.39	2.47	2.55	2.53	2.58	2.67	2.76	2.69	2.75	2.84	2.94	2.84	2.90	3.00	3.10	2.96	3.03	3.13	3.24	3.07	3.14	3.24	3.36	
Amps	10.4	10.6	10.9	11.3	11.1	11.4	11.7	12.1	12.0	12.2	12.6	13.0	12.7	13.0	13.3	13.8	13.4	13.7	14.1	14.6	14.1	14.4	14.9	15.4	
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	110	117	127	135	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	169	
MBh	32.2	33.0	35.2	37.6	31.5	32.2	34.4	36.8	30.7	31.4	33.6	35.9	30.0	30.7	32.7	35.0	28.5	29.1	31.1	33.3	26.4	27.0	28.8	30.8	
S/T	0.83	0.78	0.64	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.96	0.90	0.73	0.54	
ΔT	27	26	23	18	27	26	23	18	27	26	23	18	28	27	23	18	27	26	23	18	25	24	21	17	
kW	2.28	2.33	2.41	2.49	2.46	2.52	2.60	2.69	2.62	2.68	2.77	2.87	2.76	2.83	2.92	3.02	2.88	2.95	3.05	3.15	2.99	3.05	3.16	3.27	
Amps	10.2	10.4	10.7	11.0	10.9	11.1	11.4	11.8	11.7	11.9	12.3	12.7	12.4	12.6	13.0	13.5	13.1	13.4	13.8	14.2	13.8	14.1	14.5	15.0	
HI PR	235	253	267	278	263	284	299	312	300	322	340	355	341	367	388	404	384	413	436	455	424	456	482	503	
LO PR	106	113	123	131	112	119	130	139	117	124	135	144	123	130	142	152	128	137	149	159	133	141	154	164	

<b>85</b>	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
	MBh	36.6	37.3	39.1	41.7	35.8	36.5	38.2	40.7	34.9	35.6	37.3	39.8	34.1	34.7	36.4	38.8	32.4	33.0	34.5	36.9	30.0	30.6	32.0	34.1
	S/T	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
	ΔT	27	27	25	22	28	27	26	22	27	27	26	22	27	27	26	22	25	26	26	22	24	24	24	21
	kW	2.38	2.43	2.51	2.60	2.57	2.63	2.71	2.81	2.74	2.80	2.89	2.99	2.88	2.95	3.05	3.15	3.01	3.08	3.18	3.29	3.12	3.19	3.30	3.41
	Amps	10.6	10.8	11.1	11.4	11.3	11.5	11.9	12.3	12.2	12.4	12.8	13.2	12.9	13.2	13.6	14.0	13.6	13.9	14.3	14.8	14.4	14.7	15.1	15.6
	HI PR	247	266	281	293	277	298	315	328	315	339	358	373	359	386	408	425	404	434	459	479	446	480	507	529
	LO PR	112	119	130	138	118	126	137	146	123	130	142	152	129	137	150	159	135	144	157	167	140	149	162	173
	MBh	35.5	36.2	37.9	40.5	34.7	35.4	37.1	39.5	33.9	34.5	36.2	38.6	33.1	33.7	35.3	37.7	31.4	32.0	33.5	35.8	29.1	29.7	31.1	33.1
	S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.90	0.73
ΔT	28	28	26	23	29	28	27	23	29	28	27	23	29	29	27	23	28	28	27	23	26	26	25	21	
kW	2.36	2.41	2.49	2.57	2.55	2.61	2.69	2.78	2.71	2.78	2.87	2.97	2.86	2.93	3.02	3.13	2.98	3.05	3.16	3.27	3.09	3.16	3.27	3.38	
Amps	10.5	10.7	11.0	11.4	11.2	11.4	11.8	12.2	12.1	12.3	12.7	13.1	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7	14.2	14.6	15.0	15.5	
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	524	
LO PR	111	118	128	137	117	124	136	145	121	129	141	150	128	136	148	158	134	142	155	165	138	147	161	171	
MBh	32.8	33.4	35.0	37.4	32.0	32.7	34.2	36.5	31.3	31.9	33.4	35.6	30.5	31.1	32.6	34.8	29.0	29.6	31.0	33.0	26.9	27.4	28.7	30.6	
S/T	0.87	0.84	0.76	0.62	0.90	0.87	0.79	0.64	0.93	0.89	0.81	0.65	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.97	0.87	0.71	
ΔT	29	28	27	23	29	29	27	24	29	29	27	24	30	29	27	24	29	29	27	23	27	27	25	22	
kW	2.30	2.35	2.43	2.51	2.49	2.54	2.62	2.71	2.65	2.70	2.79	2.89	2.79	2.85	2.95	3.05	2.91	2.97	3.07	3.18	3.01	3.08	3.19	3.30	
Amps	10.2	10.4	10.7	11.1	10.9	11.2	11.5	11.9	11.8	12.0	12.4	12.8	12.5	12.7	13.1	13.6	13.2	13.5	13.9	14.3	13.9	14.2	14.6	15.1	
HI PR	237	255	269	281	266	286	302	315	303	326	344	359	345	371	392	409	388	417	441	460	428	461	487	508	
LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	144	153	130	138	151	160	134	143	156	166	

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

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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	1575	MBh	42.3	43.9	48.1	-	41.3	42.8	46.9	-	40.4	41.8	45.8	-	39.4	40.8	44.7	-	37.4	38.8	42.5	-	34.6	35.9	39.3	-
		S/T	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.47	-	0.85	0.71	0.49	-	0.88	0.73	0.51	-	0.89	0.74	0.51	-
		ΔT	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-
		kW	2.74	2.79	2.88	-	2.94	3.00	3.09	-	3.12	3.18	3.28	-	3.27	3.34	3.45	-	3.41	3.48	3.59	-	3.52	3.60	3.71	-
		Amps	11.6	11.9	12.2	-	12.5	12.7	13.1	-	13.4	13.7	14.1	-	14.2	14.5	14.9	-	15.0	15.3	15.8	-	15.8	16.2	16.7	-
	1400	HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	415	438	-	426	459	484	-
		LO PR	113	120	131	-	119	127	138	-	124	132	144	-	130	138	151	-	136	145	158	-	141	150	163	-
		MBh	41.1	42.6	46.7	-	40.1	41.6	45.6	-	39.2	40.6	44.5	-	38.2	39.6	43.4	-	36.3	37.6	41.2	-	33.6	34.9	38.2	-
		S/T	0.74	0.61	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.48	-	0.85	0.71	0.49	-
		ΔT	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
1225	kW	2.72	2.77	2.86	-	2.92	2.98	3.07	-	3.09	3.16	3.26	-	3.25	3.32	3.42	-	3.38	3.45	3.56	-	3.49	3.57	3.68	-	
	Amps	11.6	11.8	12.1	-	12.4	12.6	13.0	-	13.3	13.6	14.0	-	14.1	14.4	14.8	-	14.9	15.2	15.7	-	15.7	16.0	16.5	-	
	HI PR	233	251	265	-	262	282	298	-	298	321	339	-	339	365	386	-	382	411	434	-	422	454	479	-	
	LO PR	111	119	129	-	118	125	137	-	122	130	142	-	129	137	149	-	135	143	156	-	139	148	162	-	
	MBh	37.9	39.3	43.1	-	37.0	38.4	42.1	-	36.2	37.5	41.1	-	35.3	36.6	40.1	-	33.5	34.7	38.1	-	31.0	32.2	35.3	-	
75	1575	S/T	0.71	0.59	0.41	-	0.74	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-
		ΔT	20	17	13	-	20	18	13	-	20	18	13	-	21	18	14	-	20	18	13	-	19	16	12	-
		kW	2.66	2.71	2.79	-	2.85	2.91	3.00	-	3.02	3.08	3.18	-	3.17	3.24	3.34	-	3.30	3.37	3.47	-	3.41	3.48	3.59	-
		Amps	11.3	11.5	11.8	-	12.1	12.3	12.7	-	13.0	13.2	13.6	-	13.7	14.0	14.5	-	14.5	14.8	15.3	-	15.3	15.6	16.1	-
		HI PR	226	244	257	-	254	273	289	-	289	311	328	-	329	354	374	-	370	399	421	-	409	440	465	-
75	1400	LO PR	108	115	126	-	114	122	133	-	119	126	138	-	125	133	145	-	131	139	152	-	135	144	157	-
		MBh	43.0	44.3	48.0	51.5	42.0	43.3	46.9	50.3	41.0	42.3	45.7	49.1	40.0	41.2	44.6	47.9	38.0	39.2	42.4	45.5	35.2	36.3	39.3	42.1
		S/T	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.93	0.83	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.89	0.68	0.44	1.00	0.90	0.68	0.44
		ΔT	22	20	17	11	22	21	17	12	22	21	17	12	22	21	17	12	22	20	17	12	22	20	16	11
		kW	2.76	2.82	2.90	2.99	2.96	3.02	3.12	3.21	3.14	3.21	3.31	3.41	3.30	3.37	3.48	3.59	3.43	3.51	3.62	3.74	3.55	3.63	3.74	3.87
75	1225	Amps	11.7	12.0	12.3	12.7	12.6	12.8	13.2	13.6	13.5	13.8	14.2	14.7	14.3	14.6	15.1	15.6	15.1	15.5	15.9	16.5	15.9	16.3	16.8	17.4
		HI PR	238	256	271	282	267	288	304	317	304	327	345	360	346	373	393	410	390	419	443	462	430	463	489	510
		LO PR	114	121	132	141	120	128	140	149	125	133	145	154	131	140	152	162	137	146	160	170	142	151	165	176
		MBh	41.8	43.0	46.6	50.0	40.8	42.0	45.5	48.8	39.8	41.0	44.4	47.7	38.9	40.0	43.3	46.5	36.9	38.0	41.2	44.2	34.2	35.2	38.1	40.9
		S/T	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.41	0.96	0.86	0.65	0.42
75	1575	ΔT	23	21	17	12	23	21	18	12	23	21	18	12	23	22	18	12	23	21	17	12	22	20	16	11
		kW	2.74	2.79	2.88	2.97	2.94	3.00	3.09	3.19	3.12	3.18	3.28	3.39	3.27	3.34	3.45	3.56	3.41	3.48	3.59	3.71	3.52	3.60	3.71	3.83
		Amps	11.7	11.9	12.2	12.6	12.5	12.7	13.1	13.5	13.4	13.7	14.1	14.6	14.2	14.5	14.9	15.5	15.0	15.3	15.8	16.3	15.8	16.2	16.7	17.2
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	406	386	415	438	457	426	459	484	505
		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
75	1400	MBh	38.6	39.7	43.0	46.1	37.7	38.8	42.0	45.1	36.8	37.9	41.0	44.0	35.9	36.9	40.0	42.9	34.1	35.1	38.0	40.8	31.6	32.5	35.2	37.8
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		ΔT	23	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	23	22	18	12	22	20	17	11
		kW	2.68	2.73	2.81	2.90	2.87	2.93	3.02	3.11	3.04	3.11	3.20	3.30	3.20	3.26	3.36	3.47	3.32	3.39	3.50	3.62	3.44	3.51	3.62	3.74
		Amps	11.4	11.6	11.9	12.3	12.2	12.4	12.8	13.2	13.1	13.4	13.7	14.2	13.9	14.2	14.6	15.1	14.6	15.0	15.4	15.9	15.4	15.8	16.2	16.8
75	1225	HI PR	229	246	260	271	257	276	292	304	292	314	332	346	333	358	378	394	374	403	425	443	413	445	470	490
		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  
 kW = Total system power  
 Amps = outdoor unit amps (comp.+fan)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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
80	MBh	43.8	44.8	47.8	51.1	42.8	43.7	46.7	49.9	41.8	42.7	45.6	48.7	40.8	41.6	44.5	47.6	38.7	39.6	42.3	45.2	35.9	36.6	39.1	41.9
	S/T	0.96	0.90	0.73	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63
	ΔT	25	24	21	16	25	24	21	17	24	24	21	17	24	24	21	17	23	23	21	16	21	21	19	15
	kW	2.78	2.84	2.92	3.01	2.99	3.05	3.14	3.24	3.17	3.23	3.33	3.44	3.33	3.40	3.50	3.62	3.46	3.54	3.65	3.77	3.58	3.66	3.77	3.90
	Amps	11.8	12.1	12.4	12.8	12.7	12.9	13.3	13.7	13.6	13.9	14.3	14.8	14.4	14.8	15.2	15.7	15.3	15.6	16.1	16.6	16.1	16.4	16.9	17.5
	HI PR	241	259	273	285	270	291	307	320	307	330	349	364	350	376	397	415	393	423	447	466	435	468	494	515
	LO PR	115	122	133	142	121	129	141	150	126	134	147	156	132	141	154	164	139	148	161	172	144	153	167	178
	MBh	42.5	43.5	46.4	49.6	41.5	42.4	45.4	48.5	40.6	41.4	44.3	47.3	39.6	40.4	43.2	46.2	37.6	38.4	41.0	43.9	34.8	35.6	38.0	40.6
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.98	0.91	0.74	0.56	1.00	0.94	0.77	0.57	1.00	0.98	0.80	0.60	1.00	0.99	0.80	0.60
	ΔT	26	25	21	17	26	25	22	17	26	25	22	17	26	25	22	17	25	25	21	17	23	23	20	16
kW	2.76	2.82	2.90	2.99	2.96	3.02	3.12	3.21	3.14	3.21	3.31	3.41	3.30	3.37	3.48	3.59	3.43	3.51	3.62	3.74	3.55	3.63	3.74	3.87	
Amps	11.7	12.0	12.3	12.7	12.6	12.8	13.2	13.6	13.5	13.8	14.2	14.7	14.3	14.6	15.1	15.6	15.1	15.5	15.9	16.5	15.9	16.3	16.8	17.4	
HI PR	238	256	271	282	267	288	304	317	304	327	346	360	346	373	394	410	390	419	443	462	430	463	489	510	
LO PR	114	121	132	141	120	128	140	149	125	133	145	154	131	140	152	162	137	146	160	170	142	151	165	176	
MBh	39.3	40.1	42.9	45.8	38.3	39.2	41.9	44.7	37.4	38.2	40.9	43.7	36.5	37.3	39.9	42.6	34.7	35.4	37.9	40.5	32.1	32.8	35.1	37.5	
S/T	0.89	0.83	0.68	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.01	0.95	0.77	0.57	1.02	0.95	0.78	0.58	
ΔT	26	25	22	17	26	25	22	18	26	25	22	18	27	25	22	18	26	25	22	17	25	23	20	16	
kW	2.70	2.75	2.83	2.92	2.89	2.95	3.04	3.14	3.07	3.13	3.23	3.33	3.22	3.29	3.39	3.50	3.35	3.42	3.53	3.65	3.46	3.54	3.65	3.77	
Amps	11.5	11.7	12.0	12.4	12.3	12.5	12.9	13.3	13.2	13.5	13.9	14.3	14.0	14.3	14.7	15.2	14.8	15.1	15.5	16.1	15.5	15.9	16.4	16.9	
HI PR	231	249	263	274	259	279	295	307	295	317	335	350	336	361	382	398	378	407	429	448	418	449	474	495	
LO PR	110	117	128	136	117	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	171	
85	MBh	44.6	45.4	47.6	50.8	43.5	44.4	46.5	49.6	42.5	43.3	45.4	48.4	41.5	42.3	44.3	47.2	39.4	40.2	42.1	44.9	36.5	37.2	39.0	41.6
	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	0.95	0.81	1.00	1.00	0.96	0.82
	ΔT	26	26	24	21	25	26	25	21	25	25	25	21	24	25	25	22	23	23	25	21	21	22	23	20
	kW	2.80	2.86	2.95	3.04	3.01	3.07	3.17	3.27	3.19	3.26	3.36	3.47	3.35	3.42	3.53	3.65	3.49	3.56	3.68	3.80	3.61	3.69	3.80	3.93
	Amps	11.9	12.2	12.5	12.9	12.8	13.0	13.4	13.8	13.7	14.0	14.4	14.9	14.6	14.9	15.3	15.8	15.4	15.7	16.2	16.8	16.2	16.6	17.1	17.7
	HI PR	243	262	276	288	273	293	310	323	310	334	352	368	353	380	401	419	397	428	452	471	439	473	499	520
	LO PR	116	123	135	144	123	130	142	152	127	136	148	158	134	142	155	166	140	149	163	173	145	154	168	179
	MBh	43.3	44.1	46.2	49.3	42.3	43.1	45.1	48.1	41.3	42.1	44.1	47.0	40.3	41.0	43.0	45.8	38.2	39.0	40.8	43.6	35.4	36.1	37.8	40.3
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	27	27	25	22	28	27	26	22	27	27	26	22	26	27	26	22	25	26	26	22	23	24	24	21
kW	2.78	2.84	2.92	3.01	2.99	3.05	3.14	3.24	3.17	3.23	3.33	3.44	3.33	3.40	3.50	3.62	3.46	3.54	3.65	3.77	3.58	3.66	3.77	3.90	
Amps	11.8	12.1	12.4	12.8	12.7	12.9	13.3	13.7	13.6	13.9	14.3	14.8	14.4	14.8	15.2	15.7	15.3	15.6	16.1	16.6	16.1	16.4	16.9	17.5	
HI PR	241	259	273	285	270	291	307	320	307	330	349	364	350	376	397	415	393	423	447	466	435	468	494	515	
LO PR	115	122	133	142	121	129	141	150	126	134	147	156	132	141	154	164	139	148	161	172	144	153	167	178	
MBh	39.9	40.7	42.6	45.5	39.0	39.8	41.6	44.4	38.1	38.8	40.7	43.4	37.2	37.9	39.7	42.3	35.3	36.0	37.7	40.2	32.7	33.3	34.9	37.2	
S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75	
ΔT	28	27	26	22	28	28	26	23	28	28	26	23	28	28	26	23	26	27	26	23	25	25	24	21	
kW	2.72	2.77	2.86	2.94	2.92	2.98	3.07	3.16	3.09	3.16	3.25	3.36	3.25	3.31	3.42	3.53	3.38	3.45	3.56	3.68	3.49	3.57	3.68	3.80	
Amps	11.6	11.8	12.1	12.5	12.4	12.6	13.0	13.4	13.3	13.6	14.0	14.4	14.1	14.4	14.8	15.3	14.9	15.2	15.7	16.2	15.7	16.0	16.5	17.1	
HI PR	233	251	265	277	262	282	298	310	298	321	339	353	339	365	386	402	382	411	434	452	422	454	479	500	
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 conditions  
 kW = Total system power  
 Amps = outdoor unit amps (comp.+fan)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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	MBh	44.6	46.2	50.6	-	43.5	45.1	49.5	-	42.5	44.1	48.3	-	41.5	43.0	47.1	-	39.4	40.8	44.7	-	36.5	37.8	41.4	-
	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	0.73	0.50	-	0.88	0.73	0.51	-
	ΔT	21	19	14	-	22	19	14	-	22	19	14	-	22	19	14	-	22	19	14	-	20	17	13	-
	kW	2.93	2.99	3.09	-	3.16	3.22	3.33	-	3.35	3.43	3.54	-	3.53	3.61	3.73	-	3.68	3.76	3.89	-	3.81	3.89	4.02	-
	Amps	12.9	13.1	13.5	-	13.8	14.0	14.4	-	14.8	15.1	15.5	-	15.7	16.0	16.5	-	16.5	16.9	17.4	-	17.4	17.8	18.3	-
	HI PR	237	255	270	-	266	287	303	-	303	326	344	-	345	371	392	-	388	418	441	-	429	461	487	-
	LO PR	109	116	126	-	115	122	133	-	119	127	139	-	125	133	146	-	131	140	152	-	136	144	158	-
	MBh	43.3	44.9	49.2	-	42.3	43.8	48.0	-	41.3	42.8	46.9	-	40.3	41.7	45.7	-	38.3	39.6	43.4	-	35.4	36.7	40.2	-
	S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
	ΔT	22	19	15	-	23	20	15	-	23	20	15	-	23	20	15	-	22	19	15	-	21	18	14	-
kW	2.91	2.97	3.06	-	3.13	3.20	3.30	-	3.33	3.40	3.51	-	3.50	3.58	3.70	-	3.65	3.73	3.85	-	3.78	3.86	3.99	-	
Amps	12.8	13.0	13.4	-	13.7	13.9	14.3	-	14.7	15.0	15.4	-	15.5	15.9	16.3	-	16.4	16.8	17.3	-	17.3	17.6	18.2	-	
HI PR	235	253	267	-	264	284	300	-	300	323	341	-	342	368	388	-	384	413	437	-	424	457	482	-	
LO PR	108	114	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	134	143	156	-	
MBh	40.0	41.4	45.4	-	39.0	40.4	44.3	-	38.1	39.5	43.3	-	37.2	38.5	42.2	-	35.3	36.6	40.1	-	32.7	33.9	37.1	-	
S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-	
ΔT	23	20	15	-	23	20	15	-	23	20	15	-	23	20	15	-	23	20	15	-	21	18	14	-	
kW	2.84	2.90	2.99	-	3.05	3.12	3.22	-	3.25	3.32	3.42	-	3.41	3.49	3.60	-	3.56	3.64	3.76	-	3.68	3.76	3.89	-	
Amps	12.5	12.7	13.1	-	13.3	13.6	14.0	-	14.3	14.6	15.0	-	15.2	15.5	15.9	-	16.0	16.4	16.8	-	16.8	17.2	17.7	-	
HI PR	228	245	259	-	256	275	291	-	291	313	331	-	331	356	376	-	373	401	423	-	412	443	468	-	
LO PR	104	111	121	-	110	117	128	-	115	122	133	-	120	128	140	-	126	134	146	-	130	139	151	-	

75	MBh	45.3	46.7	50.5	54.2	44.3	45.6	49.4	53.0	43.2	44.5	48.2	51.7	42.2	43.4	47.0	50.4	40.1	41.3	44.7	47.9	37.1	38.2	41.4	44.4
	S/T	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.99	0.88	0.67	0.43	1.00	0.89	0.67	0.43
	ΔT	25	23	19	13	25	23	19	13	25	23	19	13	25	23	19	13	25	23	19	13	23	21	18	12
	kW	2.95	3.02	3.11	3.21	3.18	3.25	3.36	3.47	3.38	3.46	3.57	3.69	3.56	3.64	3.76	3.89	3.71	3.79	3.92	4.05	3.84	3.93	4.06	4.20
	Amps	13.0	13.2	13.6	14.0	13.9	14.2	14.6	15.0	14.9	15.2	15.7	16.2	15.8	16.1	16.6	17.2	16.7	17.0	17.5	18.1	17.6	17.9	18.5	19.1
	HI PR	240	258	272	284	269	289	306	319	306	329	348	363	348	375	396	413	392	422	445	465	433	466	492	513
	LO PR	110	117	127	136	116	123	135	143	120	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170
	MBh	44.0	45.3	49.1	52.7	43.0	44.3	47.9	51.4	42.0	43.2	46.8	50.2	41.0	42.2	45.6	49.0	38.9	40.1	43.4	46.5	36.0	37.1	40.2	43.1
	S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
	ΔT	26	24	19	13	26	24	20	14	26	24	20	14	26	24	20	14	26	24	20	14	24	22	18	13
kW	2.93	2.99	3.09	3.19	3.16	3.22	3.33	3.44	3.36	3.43	3.54	3.66	3.53	3.61	3.73	3.85	3.68	3.76	3.89	4.02	3.81	3.90	4.03	4.16	
Amps	12.9	13.1	13.5	13.9	13.8	14.0	14.4	14.9	14.8	15.1	15.5	16.0	15.7	16.0	16.5	17.0	16.5	16.9	17.4	18.0	17.4	17.8	18.3	18.9	
HI PR	237	255	270	281	266	287	303	316	303	326	344	359	345	371	392	409	388	418	441	460	429	461	487	508	
LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	153	162	136	145	158	168	
MBh	40.6	41.8	45.3	48.6	39.7	40.9	44.2	47.5	38.7	39.9	43.2	46.3	37.8	38.9	42.1	45.2	35.9	37.0	40.0	42.9	33.3	34.2	37.1	39.8	
S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40	
ΔT	26	24	20	14	26	24	20	14	27	24	20	14	27	25	20	14	26	24	20	14	25	23	19	13	
kW	2.86	2.92	3.01	3.11	3.08	3.15	3.25	3.35	3.27	3.34	3.45	3.57	3.44	3.52	3.63	3.76	3.59	3.67	3.79	3.92	3.71	3.80	3.92	4.06	
Amps	12.6	12.8	13.2	13.6	13.4	13.7	14.1	14.6	14.4	14.7	15.2	15.7	15.3	15.6	16.1	16.6	16.1	16.5	17.0	17.5	17.0	17.3	17.9	18.5	
HI PR	230	248	262	273	258	278	294	306	294	316	334	348	335	360	380	397	376	405	428	446	416	448	473	493	
LO PR	105	112	122	130	111	118	129	138	116	123	134	143	122	129	141	150	127	136	148	158	132	140	153	163	

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

IDB		OUTDOOR AMBIENT TEMPERATURE												ENTERING INDOOR WET BULB 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	
<b>1461</b>	MBh	25.0	25.5	27.2	29.1	24.4	24.9	26.6	28.4	23.8	24.3	26.0	27.8	23.2	23.7	25.3	27.1	22.1	22.5	24.1	25.7	20.4	20.9	22.3	23.8	
	S/T	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.85	0.64	1.00	1.00	0.89	0.66	1.00	1.00	0.89	0.67	
	ΔT	24	23	20	16	23	24	21	16	23	23	21	17	22	23	21	17	21	22	21	16	20	20	19	15	
	kW	1.58	1.62	1.67	1.73	1.71	1.75	1.81	1.87	1.82	1.86	1.93	1.99	1.92	1.97	2.03	2.10	2.01	2.05	2.12	2.20	2.08	2.13	2.20	2.28	
	Amps	6.6	6.7	6.9	7.2	7.1	7.2	7.4	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.6	8.9	8.6	8.8	9.1	9.4	9.1	9.3	9.6	10.0	
	HI PR	237	255	269	281	266	286	302	315	302	325	343	358	344	370	391	408	387	416	440	459	428	460	486	507	
	LO PR	113	120	131	140	120	127	139	148	124	132	144	154	131	139	152	161	137	146	159	169	141	151	164	175	
	<b>80</b>	MBh	24.2	24.8	26.4	28.3	23.7	24.2	25.8	27.6	23.1	23.6	25.2	27.0	22.5	23.0	24.6	26.3	21.4	21.9	23.4	25.0	19.8	20.3	21.6	23.1
		S/T	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.64
		ΔT	25	24	21	17	26	25	21	17	25	25	22	17	24	25	22	17	23	24	21	17	21	22	20	16
kW		1.57	1.61	1.66	1.71	1.70	1.73	1.79	1.85	1.81	1.85	1.91	1.98	1.90	1.95	2.01	2.08	1.99	2.03	2.10	2.18	2.06	2.11	2.18	2.26	
Amps		6.5	6.7	6.9	7.1	7.0	7.2	7.4	7.6	7.6	7.7	8.0	8.3	8.1	8.2	8.5	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.9	
HI PR		234	252	266	278	263	283	299	312	299	322	340	354	341	367	387	404	383	412	435	454	423	456	481	502	
LO PR		112	119	130	139	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	168	140	149	163	173	
<b>1139</b>		MBh	22.4	22.8	24.4	26.1	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	19.8	20.2	21.6	23.1	18.3	18.7	20.0	21.4
		S/T	0.94	0.88	0.72	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.03	0.96	0.78	0.59	1.07	1.00	0.81	0.61	1.08	1.01	0.82	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	1.53	1.57	1.62	1.67	1.65	1.69	1.75	1.81	1.76	1.80	1.86	1.92	1.86	1.90	1.96	2.03	1.94	1.98	2.05	2.12	2.01	2.05	2.12	2.20	
	Amps	6.3	6.5	6.7	6.9	6.8	7.0	7.2	7.4	7.4	7.5	7.8	8.0	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6	
	HI PR	227	245	258	269	255	274	290	302	290	312	330	344	330	356	375	392	372	400	422	441	411	442	467	487	
	LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	153	163	136	145	158	168	
	<b>85</b>	MBh	25.4	25.9	27.1	28.9	24.8	25.3	26.5	28.2	24.2	24.7	25.8	27.6	23.6	24.1	25.2	26.9	22.4	22.9	24.0	25.6	20.8	21.2	22.2	23.7
		S/T	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.83	1.00	1.00	1.00	0.86	1.00	1.00	1.00	0.87
		ΔT	24	25	24	21	24	24	25	21	23	24	25	21	23	23	24	21	22	22	23	21	20	20	21	20
kW		1.60	1.63	1.69	1.74	1.72	1.76	1.82	1.88	1.84	1.88	1.94	2.01	1.94	1.98	2.05	2.12	2.02	2.07	2.14	2.21	2.10	2.14	2.22	2.30	
Amps		6.6	6.8	7.0	7.2	7.1	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.4	8.6	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.1	
HI PR		239	257	272	283	268	289	305	318	305	328	347	362	347	374	395	412	391	421	444	463	432	465	491	512	
LO PR		114	122	133	141	121	128	140	149	126	134	146	155	132	140	153	163	138	147	160	171	143	152	166	177	
<b>1300</b>		MBh	24.6	25.1	26.3	28.1	24.1	24.5	25.7	27.4	23.5	24.0	25.1	26.8	22.9	23.4	24.5	26.1	21.8	22.2	23.3	24.8	20.2	20.6	21.5	23.0
		S/T	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.94	0.77	1.00	1.00	0.97	0.79	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.83
		ΔT	27	27	25	22	26	27	26	22	25	26	26	22	25	25	26	22	24	24	25	22	22	22	23	21
	kW	1.58	1.62	1.67	1.73	1.71	1.75	1.81	1.87	1.82	1.86	1.93	1.99	1.92	1.97	2.03	2.10	2.01	2.05	2.12	2.20	2.08	2.13	2.20	2.28	
	Amps	6.6	6.7	6.9	7.2	7.1	7.2	7.4	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.6	8.9	8.6	8.8	9.1	9.4	9.1	9.3	9.6	10.0	
	HI PR	237	255	269	281	266	286	302	315	302	325	343	358	344	370	391	408	387	416	440	459	428	460	486	507	
	LO PR	113	120	131	140	120	127	139	148	124	132	144	154	131	139	152	161	137	146	159	169	141	151	164	175	
	<b>1139</b>	MBh	22.8	23.2	24.3	25.9	22.2	22.7	23.7	25.3	21.7	22.1	23.2	24.7	21.2	21.6	22.6	24.1	20.1	20.5	21.5	22.9	18.6	19.0	19.9	21.2
		S/T	0.98	0.95	0.86	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80
		ΔT	28	27	26	22	27	27	26	22	27	27	26	22	26	27	26	23	25	25	26	22	23	23	24	21
kW		1.54	1.58	1.63	1.68	1.67	1.70	1.76	1.82	1.78	1.82	1.88	1.94	1.87	1.91	1.98	2.05	1.95	2.00	2.07	2.14	2.02	2.07	2.14	2.22	
Amps		6.4	6.5	6.7	7.0	6.9	7.0	7.3	7.5	7.4	7.6	7.8	8.1	7.9	8.1	8.3	8.6	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7	
HI PR		230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	395	375	404	427	445	415	446	471	492	
LO PR		110	117	127	136	116	123	135	143	121	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170	

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

EXPANDED HEATING DATA

GPD1424\*\*\*M41\*\*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	30.5	28.9	27.2	25.4	24.3	23.5	21.8	20.1	17.1	15.7	14.5	13.7	13.2	11.8	10.5	9.1	7.8	6.4
T/R	33.2	31.5	29.6	27.7	26.4	25.6	23.8	21.9	18.6	17.1	15.8	14.9	14.4	12.9	11.4	10.0	8.5	7.0
kW	2.07	2.02	1.98	1.94	1.91	1.90	1.86	1.81	2.04	1.99	1.94	1.91	1.89	1.84	1.79	1.75	1.69	1.65
Amps	10.2	9.5	8.9	8.4	8.1	7.9	7.5	7.1	6.9	6.6	6.3	6.1	6.1	5.8	5.4	5.1	4.8	4.3
COP	4.32	4.18	4.02	3.84	3.71	3.63	3.45	3.25	2.44	2.31	2.18	2.09	2.04	1.88	1.71	1.53	1.35	1.14
EER	14.8	14.3	13.7	13.1	12.7	12.4	11.8	11.1	8.3	7.9	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.9
HI PR	411	394	379	362	354	347	334	320	307	293	281	275	270	259	249	239	231	223
LO PR	141	130	122	112	106	102	94	83	75	67	59	55	53	45	39	33	28	22

GPD1430\*\*\*M41\*\*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	36.3	34.4	32.3	30.2	28.9	28.0	26.0	24.0	20.6	19.1	17.5	16.6	16.0	14.3	12.7	11.1	9.4	7.7
T/R	32.3	30.6	28.8	26.9	25.7	24.9	23.1	21.3	18.4	17.0	15.6	14.7	14.2	12.7	11.3	9.9	8.4	6.9
kW	2.54	2.49	2.44	2.39	2.36	2.34	2.29	2.24	2.12	2.07	2.02	1.99	1.97	1.92	1.88	1.83	1.78	1.73
Amps	13.0	12.1	11.4	10.8	10.5	10.3	9.8	9.3	9.0	8.7	8.3	8.1	8.1	7.7	7.3	6.9	6.5	6.0
COP	4.18	4.03	3.88	3.70	3.58	3.50	3.32	3.13	2.85	2.70	2.54	2.43	2.37	2.18	1.98	1.77	1.55	1.31
EER	14.3	13.8	13.2	12.6	12.2	12.0	11.3	10.7	9.8	9.2	8.7	8.3	8.1	7.4	6.8	6.1	5.3	4.5
HI PR	415	398	382	366	357	350	337	323	310	296	284	277	272	262	252	241	233	225
LO PR	142	132	124	113	107	103	95	84	76	68	60	56	54	45	39	33	29	23

GPD1436\*\*\*M41\*\*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	41.1	38.9	36.6	34.2	32.7	31.7	29.4	27.1	24.4	22.5	20.7	19.6	18.8	16.9	15.0	13.1	11.2	9.1
T/R	36.6	34.6	32.6	30.5	29.1	28.2	26.2	24.2	21.7	20.0	18.5	17.4	16.8	15.1	13.3	11.6	9.9	8.1
kW	2.86	2.80	2.74	2.69	2.65	2.63	2.57	2.51	2.52	2.46	2.40	2.37	2.34	2.28	2.22	2.17	2.11	2.05
Amps	14.7	13.7	12.9	12.2	11.8	11.6	11.1	10.6	10.2	9.8	9.4	9.2	9.1	8.7	8.2	7.8	7.3	6.7
COP	4.21	4.06	3.90	3.73	3.61	3.53	3.35	3.16	2.83	2.68	2.53	2.42	2.36	2.17	1.97	1.77	1.55	1.31
EER	14.4	13.9	13.3	12.7	12.3	12.1	11.4	10.8	9.7	9.2	8.6	8.3	8.0	7.4	6.7	6.0	5.3	4.5
HI PR	387	371	357	341	333	327	314	302	289	276	265	259	254	244	235	225	217	210
LO PR	137	127	119	109	103	99	91	81	73	66	58	54	52	44	38	32	28	22

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed. KW = Total system power  
 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.

## GPD1442\*\*\*M41\*\*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	52.9	50.0	47.1	44.0	42.1	40.7	37.8	34.9	30.1	27.8	25.6	24.2	23.3	20.9	18.5	16.1	13.8	11.3
T/R	35.0	33.1	31.1	29.1	27.8	27.0	25.0	23.1	19.9	18.4	16.9	16.0	15.4	13.8	12.2	10.7	9.1	7.5
kW	3.58	3.51	3.44	3.37	3.33	3.30	3.23	3.16	3.01	2.95	2.88	2.84	2.82	2.75	2.68	2.62	2.55	2.49
Amps	18.1	16.8	15.9	15.0	14.5	14.3	13.5	12.9	12.4	12.0	11.5	11.2	11.1	10.6	10.0	9.5	8.9	8.2
COP	4.33	4.18	4.01	3.82	3.70	3.61	3.43	3.23	2.92	2.76	2.60	2.49	2.42	2.22	2.02	1.80	1.58	1.33
EER	14.8	14.3	13.7	13.1	12.6	12.3	11.7	11.0	10.0	9.4	8.9	8.5	8.3	7.6	6.9	6.2	5.4	4.5
HI PR	414	397	382	365	357	350	336	323	309	295	283	277	272	261	251	241	232	224
LO PR	142	132	123	113	107	103	95	84	76	68	60	55	53	45	39	33	29	23

## GPD1448\*\*\*M41\*\*

	OUTDOOR AMBIENT TEMPERATURE																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	56.7	53.7	50.5	47.2	45.1	43.7	40.6	37.4	32.8	30.3	27.9	26.3	25.3	22.7	20.2	17.6	15.0	12.3
T/R	33.9	32.1	30.2	28.2	26.9	26.1	24.2	22.4	19.6	18.1	16.6	15.7	15.1	13.6	12.0	10.5	9.0	7.3
kW	3.92	3.85	3.77	3.70	3.65	3.62	3.55	3.48	3.31	3.24	3.17	3.12	3.10	3.02	2.95	2.88	2.81	2.74
Amps	19.4	18.1	17.1	16.2	15.7	15.4	14.6	14.0	13.5	12.9	12.4	12.2	12.0	11.5	10.9	10.3	9.7	8.9
COP	4.23	4.08	3.92	3.74	3.61	3.53	3.35	3.15	2.90	2.74	2.58	2.46	2.39	2.20	2.00	1.78	1.56	1.31
EER	14.5	14.0	13.4	12.8	12.3	12.1	11.4	10.8	9.9	9.3	8.8	8.4	8.2	7.5	6.8	6.1	5.3	4.5
HI PR	406	389	374	358	349	343	329	316	303	289	278	271	266	256	246	236	228	220
LO PR	132	122	115	105	99	96	88	78	71	63	55	52	50	42	36	31	27	21

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

KW = Total system power

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.

**GPD1424060M41A\* - RISE RANGE: 35° - 65°**

UNIT STATIC	T1 - 1ST STAGE HEATING SPEED			T2 - 2ND STAGE HEATING SPEED			T3 - COOLING SPEED		T4 - COOLING SPEED		T5 - COOLING SPEED	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	616	51	55	845	105	53	859	94	885	103	1048	140
0.2	581	60	58	809	116	56	810	102	836	111	999	148
0.3	535	69	63	774	124	58	761	109	788	118	950	155
0.4	476	79	X	736	134	61	713	117	740	126	901	163
0.5	422	87	X	695	140	65	664	125	692	134	852	171
0.6	365	95	X	646	148	X	615	133	643	142	803	179
0.7	334	101	X	580	161	X	---	---	---	---	---	---
0.8	300	103	X	532	167	X	---	---	---	---	---	---

**GPD143080M41A\* - RISE RANGE: 35° - 65°**

UNIT STATIC	T1 - 1ST STAGE HEATING SPEED			T2 - 2ND STAGE HEATING SPEED			T3 - COOLING SPEED		T4 - COOLING SPEED		T5 - COOLING SPEED	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	997	147	45	1276	284	47	1059	137	1071	142	1333	234
0.2	965	155	47	1238	284	48	1008	144	1023	149	1285	242
0.3	922	165	49	1206	289	50	956	151	976	157	1237	250
0.4	886	173	51	1164	302	52	908	158	928	164	1189	257
0.5	835	182	54	1131	314	53	857	166	880	172	1141	265
0.6	781	188	58	1086	319	55	784	175	832	180	1094	273
0.7	731	200	62	1038	319	58	732	180	784	187	---	---
0.8	677	202	X	984	322	61	673	188	736	195	---	---

**GPD1436080M41A\* - RISE RANGE: 35° - 65°**

UNIT STATIC	T1 - 1ST STAGE HEATING SPEED			T2 - 2ND STAGE HEATING SPEED			T3 - COOLING SPEED		T4 - COOLING SPEED		T5 - COOLING SPEED	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	997	147	45	1276	284	47	1317	230	1317	230	1453	269
0.2	965	155	47	1238	284	48	1269	237	1269	237	1405	277
0.3	922	165	49	1206	289	50	1221	245	1221	245	1357	284
0.4	886	173	51	1164	302	52	1174	253	1174	253	1309	292
0.5	835	182	54	1131	314	53	1126	260	1126	260	1261	300
0.6	781	188	58	1086	319	55	1078	268	1078	268	1213	307
0.7	731	200	62	1038	319	58	1030	276	1030	276	---	---
0.8	677	202	X	984	322	61	982	283	982	283	---	---

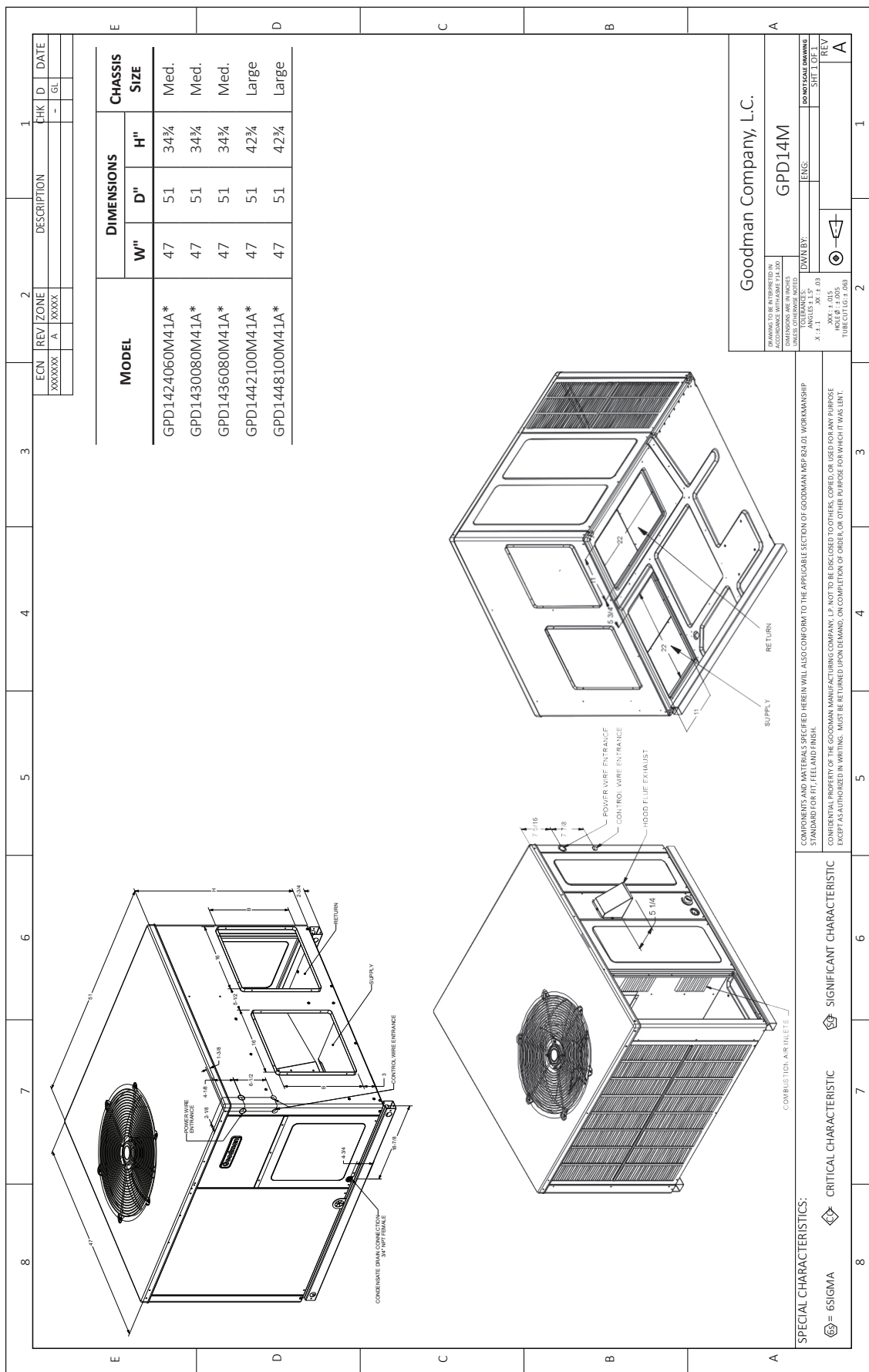
**GPD1442100M41A\* - RISE RANGE: 35° - 65°**

UNIT STATIC	T1 - 1ST STAGE HEATING SPEED			T2 - 2ND STAGE HEATING SPEED			T3 - COOLING SPEED		T4 - COOLING SPEED		T5 - COOLING SPEED	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1098	167	51	1423	324	53	1354	260	1501	320	1609	365
0.2	1038	178	54	1375	335	55	1296	267	1446	328	1556	373
0.3	991	184	57	1322	347	57	1237	275	1391	336	1504	381
0.4	932	192	60	1275	347	59	1178	283	1336	344	1451	388
0.5	871	204	65	1224	357	61	1120	291	1281	352	1399	396
0.6	811	213	X	1172	364	64	1061	299	1226	359	1347	404
0.7	753	210	X	1130	379	X	1002	306	1171	367	1294	412
0.8	704	221	X	1075	384	X	944	314	1116	375	1242	420

**GPD1448100M41A\* - RISE RANGE: 35° - 65°**

UNIT STATIC	T1 - 1ST STAGE HEATING SPEED			T2 - 2ND STAGE HEATING SPEED			T3 - COOLING SPEED		T4 - COOLING SPEED		T5 - COOLING SPEED	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1098	167	51	1423	324	53	1164	180	1397	315	1758	427
0.2	1038	178	54	1375	335	55	1100	188	1354	320	1709	435
0.3	991	184	57	1322	347	57	1037	196	1306	329	1660	443
0.4	932	192	60	1275	347	59	974	204	1261	338	1612	450
0.5	871	204	65	1224	357	61	910	212	1211	343	1563	458
0.6	811	213	X	1172	364	64	847	220	1168	356	1514	466
0.7	753	210	X	1130	379	X	784	227	1111	373	1466	474
0.8	704	221	X	1075	384	X	720	235	1066	373	1417	482





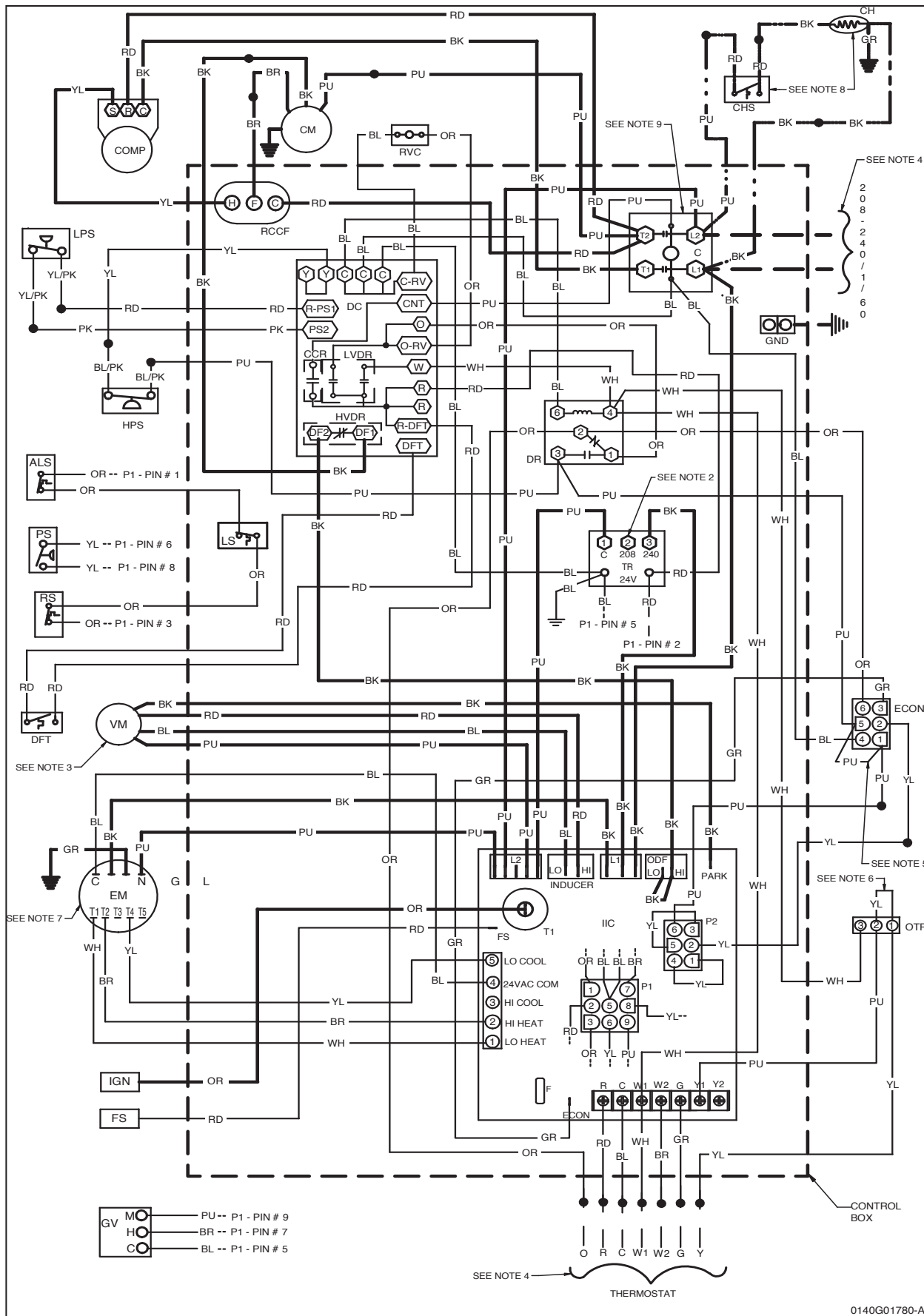
Goodman Company, L.C.

DRAWING NUMBER: GPD14M	
DATE: 11/11/05	ENG: [Signature]
DRAWN BY: [Signature]	
SCALE: 1" = 1'-0"	
SHEET 1 OF 1	
REV: A	REV: [Signature]

SPECIAL CHARACTERISTICS:  
 ⊕ = 6SIGMA    ⊕ = CRITICAL CHARACTERISTIC    ⊕ = SIGNIFICANT CHARACTERISTIC

COMPONENTS AND MATERIALS SPECIFIED HEREIN WILL ALSO CONFORM TO THE APPLICABLE SECTION OF GOODMAN MSP 824.01 WORKMANSHIP STANDARD FOR FIT, FEEL AND FINISH.

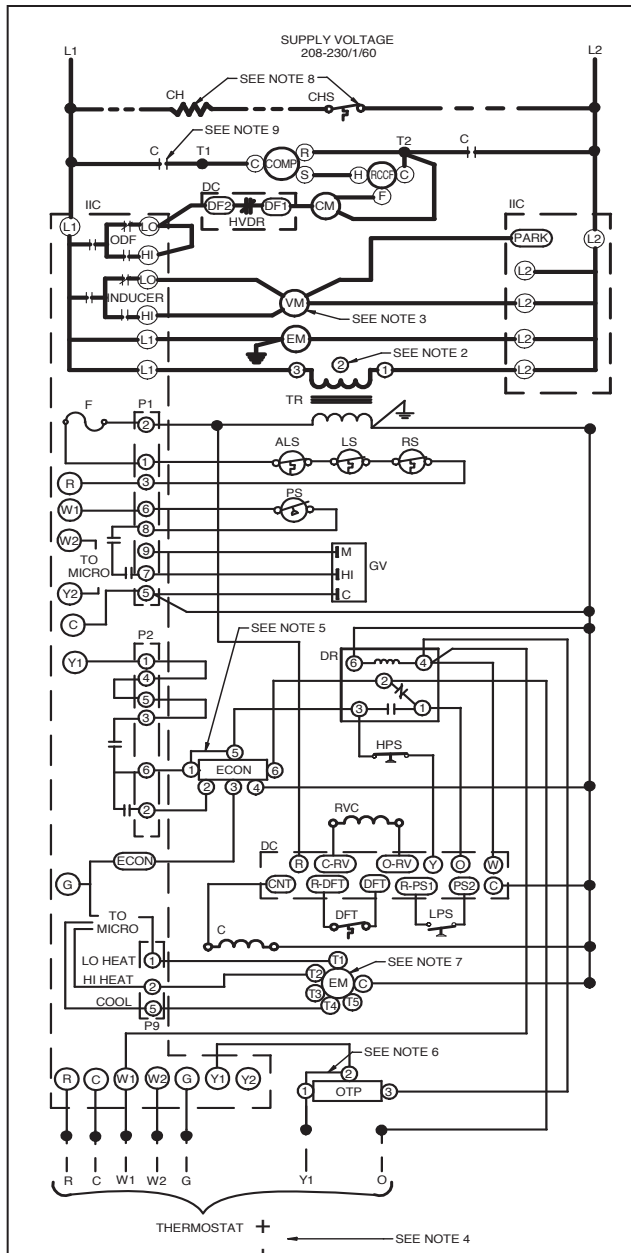
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High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

**WARNING**

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



**COMPONENT LEGEND**

- |      |                                |     |                       |
|------|--------------------------------|-----|-----------------------|
| ALS  | AUXILLARY LIMIT SWITCH         |     | <b>FACTORY WIRING</b> |
| C    | CONTACTOR                      | —   | LINE VOLTAGE          |
| CH   | CRANKCASE HEATER               | —   | LOW VOLTAGE           |
| CHS  | CRANKCASE HEATER SWITCH        | --- | OPTIONAL HIGH VOLTAGE |
| CM   | CONDENSER MOTOR                |     |                       |
| COMP | COMPRESSOR                     |     |                       |
| DC   | DEFROST CONTROL BOARD          |     |                       |
| DFT  | DEFROST THERMOSTAT             |     |                       |
| DR   | DEFROST RELAY                  |     |                       |
| ECON | ECONOMIZER PLUG                | --- | <b>FIELD WIRING</b>   |
| EM   | EVAPORATOR MOTOR               | --- | HIGH VOLTAGE          |
| F    | FUSE                           | --- | LOW VOLTAGE           |
| FS   | FLAME SENSOR                   |     |                       |
| GND  | EQUIPMENT GROUND               |     |                       |
| GV   | GAS VALVE                      |     |                       |
| HPS  | HIGH PRESSURE SWITCH           |     |                       |
| IIC  | INTEGRATED IGNITION CONTROL    |     |                       |
| IGN  | IGNITOR                        |     |                       |
| LPS  | LOW PRESSURE SWITCH            |     |                       |
| LS   | LIMIT SWITCH                   |     |                       |
| OTP  | OUTDOOR THERMOSTAT PLUG        |     |                       |
| P1   | 9 PIN CONNECTOR PLUG           |     |                       |
| P2   | 6 PIN CONNECTOR PLUG           |     |                       |
| PS   | PRESSURE SWITCH                |     |                       |
| RCCF | RUN CAPACITOR COMPRESSOR / FAN |     |                       |
| RS   | ROLLOUT SWITCH                 |     |                       |
| RVC  | REVERSING VALVE COIL           |     |                       |
| TR   | TRANSFORMER                    |     |                       |
| VM   | VENT MOTOR                     |     |                       |

**NOTES**

- REPLACEMENT WIRE MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (AT LEAST 105°C). USE COPPER CONDUCTOR ONLY.
- FOR 208V TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
- FOR 208V VENT MOTOR OPERATION, REMOVE BLUE LEAD FROM INDUCER LOW TERMINAL. MOVE BLACK LEAD FROM PARK TERMINAL TO INDUCER LOW TERMINAL, AND PLACE BLUE LEAD ON PARK.
- USE COPPER CONDUCTORS ONLY.
- USE NEC CLASS 2 WIRE.
- FOR ECONOMIZER, REMOVE PLUG FROM ECONOMIZER HARNESS. CONNECT PLUG FROM ECONOMIZER TO HARNESS.
- FOR OUTDOOR THERMOSTAT, REMOVE PLUG FROM HARNESS AND CONNECT PLUG FROM OUTDOOR THERMOSTAT TO HARNESS.
- TO CHANGE AIRFLOW MOVE YELLOW WIRE (COOLING / HEAT PUMP), WHITE WIRE (LOW STAGE GAS), OR BROWN WIRE (HIGH-STAGE GAS) TO SPEED TAP T1, T2, T3, T4, OR T5 AT EVAPORATOR MOTOR. REFER TO UNIT AIRFLOW TABLES FOR TO DETERMINE THE APPROPRIATE SPEED TAP FOR APPLICATION. UNITS SHIPPED WITH YELLOW, WHITE, AND BROWN ON T4, T1, AND T2 RESPECTIVELY.
- CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
- DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.

**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**

DIAGNOSTIC LED - RED	STATUS	CHECK
ON	NORMAL OPERATION	-
OFF	NO POWER OR INTERNAL CONTROL FAULT	CHECK INPUT POWER CHECK FUSE(S) REPLACE CONTROL
1 FLASH	IGNITION FAILURE	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR
2 FLASHES	PRESSURE SWITCH OPEN	CHECK PRESSURE SWITCH CHECK TUBING CHECK VENT MOTOR
3 FLASHES	PRESSURE SWITCH CLOSED WITHOUT INDUCER ON	CHECK PRESSURE SWITCH CHECK WIRING FOR SHORTS
4 FLASHES	OPEN LIMIT SWITCH	CHECK MAIN LIMIT SWITCH CHECK AUXILIARY LIMIT SW. CHECK ROLLOUT LIMIT SW.
5 FLASHES	FALSE FLAME DETECTED	CHECK GAS VALVE CHECK FOR SHORTS IN FLAME SENSOR WIRING
6 FLASHES	COMPR. SHORT CYCLE DELAY	3 MIN COMP. SHORT CYCLE DELAY

DIAGNOSTIC LED - RED	STATUS	CHECK
7 FLASHES	LIMIT OPEN 5 TIMES IN SAME CALL FOR HEAT	CHECK MAIN LIMIT SWITCH CHECK AUXILIARY LIMIT SW.
8 FLASHES	IDT/ODT OPEN	CHECK JUMPER BETWEEN 1 AND 4 ON 6-CIRCUIT CONNECTOR CHECK OPTIONAL REFRIGERANT SWITCHES
9 FLASHES	PSW/LOC OPEN	CHECK REFRIGERANT SWITCHES FOR LOSS OF CHARGE OR HIGH HEAD PRESSURE

DIAGNOSTIC LED - AMBER	STATUS	CHECK
OFF	NO FLAME PRESENT	-
ON	NORMAL FLAME PRESENT	-
1 FLASH	LOW FLAME SIGNAL	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR
2 FLASHES	FALSE FLAME DETECTED	CHECK GAS VALVE CHECK FOR SHORTS IN FLAME SENSOR WIRING

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

DESCRIPTION	PARTS NUMBERS	
	MEDIUM CHASSIS	LARGE CHASSIS
Concentric Kit	CDK36	CDK4872
Downflow Economizer	DDNECNJPGMM	DDNECNJPGML
Downflow Manual Damper	PGMDD102	PGMDD103
Downflow Motorized Damper	PGMDMD102	PGMDMD103
Downflow Square-to-Round	SQRPG102	SQRPG103
Downflow Internal Filter Rack	PGFR102	PGFR103
External Horizontal Filter Rack	GPGHFR102	GPGHFR103
High-Altitude Kit	HA-03	HA-03
Horizontal Duct Cover	20464501NGK	20464502NGK
Horizontal Economizer	DHZECNJPCHM	DHZECNJPCHL
Horizontal Manual Damper	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH102	PGMDMH103
Horizontal Square-to-Round	SQRPGH102	SQRPGH103
LP Conversion Kit	LPM-08	LPM-08
Outdoor Thermostat w/ Housing	OTDFPKG-01	OTDFPKG-01
Roof Curb	D14CRBPGCHMA	D14CRBPGCHMA