



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**



Contents

Nomenclature.....	2
Product Specifications.....	3
Expanded Cooling Data	4
Expanded Heating Data	14
Airflow Data	16
Dimensions	17
Wiring Diagrams	18
Accessories	20

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
- Aluminum foil-facing internal insulation reinforced with fiberglass scrim
- 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. 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.

	G	P	D	14	36	090	M	4	1	**		
	1	2	3	4,5	6,7	8,9,10	11	12	13	14,15		
Brand	G Goodman® brand										Engineering	
											Major/ Minor Revisions	
Product Category	P Packaged Unit										Electrical	
											1 208-230/1/60	
Unit Type	G Gas/Electric										Refrigerant	
	D Dual-Fuel										4 R-410A	
Efficiency	14 14 SEER										Airflow	
	16 16 SEER										M Multi-Position	
Nominal Capacity											Heat Input	
	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*
COOLING					
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 #'S	8032961	8032962	8032963	8032964	8032965
HEATING					
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
GAS HEATING					
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
EVAPORATOR COIL					
Face Area (ft ²)	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 ²) / 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
EVAPORATOR MOTOR					
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
CONDENSER COIL					
Face Area (ft ²)	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
CONDENSER MOTOR / FAN					
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
COMPRESSOR					
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
ELECTRICAL SPECIFICATIONS					
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
OPERATING / SHIPPING WEIGHT (LBS)					
	420 / 440	420 / 440	440 / 460	525 / 545	525 / 545

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

² May use fuses or HACR-type circuit breakers of the same size as noted.

Note: Always check the S&R plate for electrical data on the unit being installed.

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