

COOLING CAPACITIES: 23,000 TO 57,500 BTU/H

HEATING CAPACITIES: 40,000 TO 120,000 BTU/H

2- TO 5-TON

PACKAGED GAS/ELECTRIC UNITS

14 SEER / 81% AFUE



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Standard Features

- Durable, corrosion-resistant T-140 aluminized steel tubular heat exchanger
- Energy-efficient compressor
- All-aluminum evaporator coil
- Aluminum tube/aluminum fin coil
- Multi-speed ECM indoor blower motor
- Flowrater expansion device on 2- to 4-ton units; TXV expansion device on 5-ton units
- Redundant gas valve with easy conversion to propane
- 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
- All models comply with California Low NOx standards
- AHRI Certified; ETL Listed

Cabinet Features

- High-quality UV-resistant powder-paint finish
- Horizontal or downflow application
- Convenient access panels
- One roof curb fits all units
- Fully insulated cabinet
- Bottom, 2" high base rails for easier handling
- When properly anchored, meets 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	G	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 D Dual-Fuel										Refrigerant
											4 R-410A
Efficiency	14 14 SEER 16 16 SEER										Airflow
											M Multi-Position
Nominal Capacity	24 2 Tons 36 3 Tons 42 3½ Tons 30 2½ tons 37 3 Tons 48 4 Tons										Heat Input
											60 60 MBTU/h 100 100 MBTU/h 70 69 MBTU/h 115 115 MBTU/h 80 80 MBTU/h 120 120 MBTU/h 90 92 MBTU/h 140 138 MBTU/h

	GPG1424 040M41AA	GPG1424 060M41AA	GPG1430 040M41AA	GPG1430 060M41AA	GPG1430 040M41B*	GPG1430 060M41B*	GPG1436 040M41AA
COOLING CAPACITY							
Total BTU/h	23,000	23,000	28,600	28,600	28,600	28,600	34,200
Sensible BTU/h	18,400	18,400	22,800	22,800	22,400	22,400	27,000
SEER / EER	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0
Decibels	78	78	78	78	78	78	78
AHRI Reference #s	7505444	7505444	7505448	7505448	9101255	9101255	7505445
HEATING CAPACITY							
Input BTU/h	40,000	60,000	40,000	60,000	40,000	60,000	40,000
Output BTU/h	31,000	48,000	31,000	48,000	31,000	48,000	31,000
AFUE	81	81	81	81	81	81	81
Temperature Rise Range	25 - 55	30 - 60	25 - 55	30 - 60	25 - 55	30 - 60	25 - 55
No. of Burners	2	3	2	3	2	3	2
Orifice Size (Natural/Propane)	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM
EVAPORATOR MOTOR							
Type	ECM	ECM	ECM	ECM	ECM	ECM	ECM
Wheel (D x W)	10" x 8"	10" x 8"	10" x 8"	10" x 8"	10" x 8"	10" x 8"	10" x 9"
Indoor Nominal CFM	800	800	1,000	1,000	1,000	1,000	1,200
Motor Speed Tap (Cooling)	T4	T4	T4	T4	T4	T4	T4
RPM/Amps (Cooling)	1050/3.9	1050/3.9	1050/3.9	1050/3.9	1050/3.9	1050/3.9	1050/3.9
Horsepower	1/2	1/2	1/2	1/2	1/2	1/2	1/2
EVAPORATOR COIL							
Face Area (ft ²)	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Rows Deep/Fins per Inch	3/14	3/14	3/14	3/14	3/14	3/14	4/14
Piston Size (Cooling)	0.057	0.057	0.062	0.062	0.062	0.062	0.068
Filter Size (ft ²)	2.7	3.3	3.4	3.4	3.4	3.4	4.0
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Refrigerant Charge (oz.)	75	75	78	78	78	78	62
CONDENSER FAN / COIL							
Horsepower - RPM	1/6 - 815	1/6 - 815	1/4 - 1,075	1/4 - 1,075	1/4 - 1,075	1/4 - 1,075	1/4 - 830
Diameter / # of Blades	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3
Outdoor Nominal CFM	2,150	2,150	3,050	3,050	3,050	3,050	2,250
Face Area (ft ²)	12.3	12.3	12.3	12.3	12.3	12.3	8.8
Rows Deep/Fins per Inch	1/24	1/24	1/24	1/24	1/24	1/24	2/27
COMPRESSOR							
Quantity / Type	1 / Rotary	1 / Rotary	1 / Scroll	1 / Scroll	1 / Rotary	1 / Rotary	1 / Scroll
Stage	Single	Single	Single	Single	Single	Single	Single
Compressor RLA/LRA	7.7 / 37.0	7.7 / 37.0	14.1 / 73	14.1 / 73	10.5/47.0	10.5/47.0	14.1/77.0
ELECTRICAL DATA							
Voltage-Phase (60 Hz)	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1
Indoor Blower FLA	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Outdoor Fan FLA/LRA	1.1 / 1.7	1.1 / 1.7	1.4 / 2.9	1.4 / 2.9	1.4 / 2.9	1.4 / 2.9	1.5 / 3.0
Total Unit Amps	12.7	12.7	19.4	19.4	15.8	15.8	19.5
Min. Circuit Ampacity	14.6	14.6	22.9	22.9	18.4	18.4	23
Max. Overcurrent Protection	20 amps	20 amps	35 amps	35 amps	25	25	35 amps
Entrance Size Power Supply	1½"	1½"	1½"	1½"	1½"	1½"	1½"
Entrance Size Control Voltage	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"
OPERATING / SHIP WEIGHTS (LBS)							
	412 / 435	417 / 439	415 / 438	420 / 442	412 / 435	417 / 439	449 / 470

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.

	GPG1436 060M41AA	GPG1436 080M41AA	GPG1442 060M41AA	GPG1442 080M41AA	GPG1448 060M41AA	GPG1448 080M41AA	GPG1448 100M41AA
COOLING CAPACITY							
Total BTU/h	34,200	34,200	40,000	40,000	46,500	46,500	46,500
Sensible BTU/h	27,000	27,000	30,000	30,000	36,800	36,800	36,800
SEER / EER	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0
Decibels	78	78	78	78	80	80	80
AHRI Reference #s	7505445	7505445	7505449	7505449	7505446	7505446	7505446
HEATING CAPACITY							
Input BTU/h	60,000	80,000	60,000	80,000	60,000	80,000	100,000
Output BTU/h	48,000	64,000	48,000	64,000	48,000	64,000	80,000
AFUE	81	81	81	81	81	81	81
Temperature Rise Range	30 - 60	30 - 60	30 - 60	30 - 60	30 - 60	30 - 60	35 - 65
No. of Burners	3	4	3	4	3	4	5
Orifice Size (Natural/Propane)	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM
EVAPORATOR MOTOR							
Type	ECM	ECM	ECM	ECM	ECM	ECM	ECM
Wheel (D x W)	10" x 9"	10" x 9"	10" x 9"	10" x 9"	11" x 10"	11" x 10"	11" x 10"
Indoor Nominal CFM	1,200	1,200	1,300	1,300	1,525	1,525	1,525
Motor Speed Tap (Cooling)	T4	T4	T4	T4	T4	T4	T4
RPM/Amps (Cooling)	1050/3.9	1050/3.9	1050/5.7	1050/5.7	1,050/5.7	1,050/5.7	1,050/5.7
Horsepower	1/2	1/2	3/4	3/4	3/4	3/4	3/4
EVAPORATOR COIL							
Face Area (ft ²)	4.3	4.3	4.3	4.3	5.7	5.7	5.7
Rows Deep/Fins per Inch	4/14	4/14	4/14	4/14	4/14	4/14	4/14
Piston Size (Cooling)	0.068	0.068	0.072	0.072	0.078	0.078	0.078
Filter Size (ft ²)	4.0	4.4	4.3	4.4	5.1	5.1	5.1
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Refrigerant Charge (oz.)	62	62	88	88	99	99	99
CONDENSER FAN / COIL							
Horsepower - RPM	1/4 - 830	1/4 - 830	1/4 - 1,075	1/4 - 1,075	1/4 - 1,075	1/4 - 1,075	1/4 - 1,075
Diameter / # of Blades	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3
Outdoor Nominal CFM	2,250	2,250	2,850	2,850	3,300	3,300	3,300
Face Area (ft ²)	8.8	8.8	11.1	11.1	15.4	15.4	15.4
Rows Deep/Fins per Inch	2/27	2/27	2/27	2/27	1/24	1/24	1/24
COMPRESSOR							
Quantity / Type	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll
Stage	Single	Single	Single	Single	Single	Single	Single
Compressor RLA/LRA	14.1/77.0	14.1/77.0	17.9 / 112	17.9 / 112	19.9/109	19.9/109	19.9/109
ELECTRICAL DATA							
Voltage-Phase (60 Hz)	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1
Indoor Blower FLA	3.9	3.9	5.7	5.7	5.7	5.7	5.7
Outdoor Fan FLA/LRA	1.5 / 3.0	1.5 / 3.0	1.4/ 2.9	1.4/ 2.9	1.4/ 2.9	1.4/ 2.9	1.4/ 2.9
Total Unit Amps	19.5	19.5	22.3	22.3	27.0	27.0	27.0
Min. Circuit Ampacity	23	23	26.8	26.8	32	32	32
Max. Overcurrent Protection	35 amps	35 amps	40 amps	40 amps	50 amps	50 amps	50 amps
Entrance Size Power Supply	1½"	1½"	1½"	1½"	1½"	1½"	1½"
Entrance Size Control Voltage	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"
OPERATING / SHIP WEIGHTS (LBS)							
	453 / 475	458 / 480	493 / 515	496 / 520	518 / 540	523 / 545	528 / 550

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.

	GPG1460 080M41AA	GPG1460 100M41AA	GPG1460 120M41AA	GPG1461 080M41A*	GPG1461 100M41A*	GPG1461 120M41A*
COOLING CAPACITY						
Total BTU/h	57,500	57,500	57,500	57,500	57,500	57,500
Sensible BTU/h	44,500	44,500	44,500	42,000	42,000	42,000
SEER / EER	14.2 / 10.1	14.2 / 10.1	14.2 / 10.1	14.0 / 11.0	14.0 / 11.0	14.0 / 11.0
Decibels	78	78	78	78	78	78
AHRI Reference #s	7505447	7505447	7505447	8321898	8321898	8321898
HEATING CAPACITY						
High-Fire Input / Output	80,000 / 63,000	100,000 / 78,000	120,000 / 94,000	80,000 / 63,000	100,000 / 78,000	120,000 / 94,000
Low-Fire Input / Output	60,000 / 47,000	75,000 / 58,000	90,000 / 71,000	60,000 / 47,000	75,000 / 58,000	90,000 / 71,000
AFUE	81	81	81	81	81	81
Temperature Rise Range	30 - 60	35 - 65	35 - 65	30 - 60	35 - 65	35 - 65
No. of Burners	4	5	6	4	5	6
Orifice Size (Natural/Propane)	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM	45 / 1.25MM
EVAPORATOR MOTOR						
Type	ECM	ECM	ECM	ECM	ECM	ECM
Wheel (D x W)	11" x 10"	11" x 10"	11" x 10"	11" x 10"	11" x 10"	11" x 10"
Indoor Nominal CFM	1,810	1,810	1,810	1,750	1,750	1,750
Motor Speed Tap (Cooling)	T3 L / T4 H	T3 L / T4 H	T3 L / T4 H	T3 L / T4 H	T3 L / T4 H	T3 L / T4 H
RPM/Amps (Cooling)	1,050/7.0	1,050/7.0	1,050/7.0	1,050/7.0	1,050/7.0	1,050/7.0
Horsepower	1	1	1	1	1	1
EVAPORATOR COIL						
Face Area (ft ²)	5.7	5.7	5.7	5.7	5.7	5.7
Rows Deep/Fins per Inch	4/14	4/14	4/14	4/14	4/14	4/14
Piston Size (Cooling)	TXV	TXV	TXV	TXV	TXV	TXV
Filter Size (ft ²)	6.0	6.0	6.0	6.0	6.0	6.0
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
Refrigerant Charge (oz.)	100	100	100	100	100	100
CONDENSER FAN / COIL						
Horsepower - RPM	1/4 - 1,075	1/4 - 1,075	1/4 - 1,075	1/3 - 1,122	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	3,000	3,000	3,000	3,000	3,000	3,000
Face Area (ft ²)	11.3	11.3	11.3	14.4	14.4	14.4
Rows Deep/Fins per Inch	2/27	2/27	2/27	2/27	2/27	2/27
COMPRESSOR						
Quantity / Type	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll
Stage	Two	Two	Two	Two	Two	Two
Compressor RLA/LRA	27.1 / 152.9	27.1 / 152.9	27.1 / 152.9	28.8 / 152.9	28.8 / 152.9	28.8 / 152.9
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	7.0	7.0	7.0	7.0	7.0	7.0
Outdoor Fan FLA/LRA	1.4/ 2.9	1.4/ 2.9	1.4/ 2.9	2.0 / 4.40	2.0 / 4.40	2.0 / 4.40
Total Unit Amps	35.5	35.5	35.5	30	30	30
Min. Circuit Ampacity	42.3	42.3	42.3	35.0	35.0	35.0
Max. Overcurrent Protection	60 amps	60 amps	60 amps	50 amps	50 amps	50 amps
Entrance Size Power Supply	1½"	1½"	1½"	1½"	1½"	1½"
Entrance Size Control Voltage	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"
OPERATING / SHIP WEIGHTS (LBS)						
	533 / 555	538 / 560	543 / 565	533 / 555	538 / 560	543 / 565

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.

NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- Test data was used to calculate the MOP and MCA.

1	2	3	4	5	6	7	8																																																												
ECN: XXXXXX A		REV: XXXXX A	ZONE: XXXXX	DESCRIPTION		CHK D: -	DATE: GL																																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">MODEL</th> <th colspan="4">DIMENSIONS</th> <th rowspan="2">CHASSIS SIZE</th> </tr> <tr> <th>W"</th> <th>D"</th> <th>H"</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>GPG1424***M41**</td> <td>47</td> <td>51</td> <td>34$\frac{3}{4}$"</td> <td>32"</td> <td>16"</td> <td>Medium</td> </tr> <tr> <td>GPG1430***M41**</td> <td>47</td> <td>51</td> <td>34$\frac{3}{4}$"</td> <td>32"</td> <td>16"</td> <td>Medium</td> </tr> <tr> <td>GPG1436***M41**</td> <td>47</td> <td>51</td> <td>34$\frac{3}{4}$"</td> <td>32"</td> <td>16"</td> <td>Medium</td> </tr> <tr> <td>GPG1442***M41**</td> <td>47</td> <td>51</td> <td>34$\frac{3}{4}$"</td> <td>32"</td> <td>16"</td> <td>Medium</td> </tr> <tr> <td>GPG1448***M41**</td> <td>47</td> <td>51</td> <td>42$\frac{3}{4}$"</td> <td>40"</td> <td>18"</td> <td>Large</td> </tr> <tr> <td>GPG1460***M41**</td> <td>47</td> <td>51</td> <td>42$\frac{3}{4}$"</td> <td>40"</td> <td>18"</td> <td>Large</td> </tr> <tr> <td>GPG1461***M41**</td> <td>47</td> <td>51</td> <td>42$\frac{3}{4}$"</td> <td>40"</td> <td>18"</td> <td>Large</td> </tr> </tbody> </table>								MODEL	DIMENSIONS				CHASSIS SIZE	W"	D"	H"	A	B	GPG1424***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium	GPG1430***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium	GPG1436***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium	GPG1442***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium	GPG1448***M41**	47	51	42 $\frac{3}{4}$ "	40"	18"	Large	GPG1460***M41**	47	51	42 $\frac{3}{4}$ "	40"	18"	Large	GPG1461***M41**	47	51	42 $\frac{3}{4}$ "	40"	18"	Large
MODEL	DIMENSIONS				CHASSIS SIZE																																																														
	W"	D"	H"	A		B																																																													
GPG1424***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium																																																													
GPG1430***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium																																																													
GPG1436***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium																																																													
GPG1442***M41**	47	51	34 $\frac{3}{4}$ "	32"	16"	Medium																																																													
GPG1448***M41**	47	51	42 $\frac{3}{4}$ "	40"	18"	Large																																																													
GPG1460***M41**	47	51	42 $\frac{3}{4}$ "	40"	18"	Large																																																													
GPG1461***M41**	47	51	42 $\frac{3}{4}$ "	40"	18"	Large																																																													
<p>SPECIAL CHARACTERISTICS:</p> <ul style="list-style-type: none"> ⊕ = 6SIGMA ⊕ = CRITICAL CHARACTERISTIC ⊕ = SIGNIFICANT CHARACTERISTIC 																																																																			
<p>COMPONENTS AND MATERIALS SPECIFIED HEREIN WILL ALSO CONFORM TO THE APPLICABLE SECTION OF GOODMAN MSP 824.01. WORKMANSHIP STANDARD FOR FIT, FEEL AND FINISH.</p> <p>CONSERVATION PROPERTY OF THE GOODMAN MANUFACTURING COMPANY, L.P. MUST BE RESPECTED. TO REUSE, COPY, OR REPRODUCE ANY PORTION EXCEPT AS AUTHORIZED IN WRITING, MUST BE RETURNED UPON DEMAND, ON COMPLETION OF ORDER, OR OTHER SUBJECT MATTER FOR WHICH IT WAS SENT.</p>																																																																			
<p>Goodman Company, L.C.</p> <p>GPG14M</p> <p>DATE: 11/11/10</p> <p>ENGINEER: [Signature]</p> <p>DESIGNED BY: [Signature]</p> <p>SCALE: 1/8" = 1'-0"</p> <p>ANGLES: 1:1, 1:2</p> <p>X: 1/16", 1/8", 3/16", 1/4"</p> <p>NOTE: 1:1, 1:2, 1:4, 1:8, 1:16, 1:32</p> <p>TUBE CUT TO LENGTH</p>																																																																			