

# MPG\*S\*M414A

## PRODUCT SPECIFICATIONS

14 SEER GAS ELECTRIC  
PACKAGED UNIT

### REFRIGERANT SYSTEM

- Environmentally friendly R410A refrigerant
- Copper tubing with enhanced fin coils
- Internal service gauge ports
- Sleeved distributor tubes
- Antimicrobial Drain Pan
- High and Low Threaded pressure switches for system protection

### HEAT EXCHANGER

- GX models comply with California Energy Commission Low NOx regulations
- Aluminized Tri-Dimple tubular heat exchanger for increased efficiency
- Pest protected flue outlet

### CABINET CONSTRUCTION

- Rounded corners for safety and an attractive, clean appearance
- One piece base design for strength and stability
- Drain ports for condensate management and coil runoff
- Low profile, with compact footprint
- Insulation to minimize heat loss plus reduce sound
- Textured pre-painted steel cabinet finish
- Superior service access to components
- Louvered coil guard protection
- One piece "no leak" top design

### BLOWER

- Insulated compartment to reduce sound
- Efficient constant torque motor for wide airflow range
- Slide out blower housing for easy service

### CONTROLS

- Solid state integrated blower control board with L.E.D. self diagnostics
- Direct spark ignition
- Color coded wiring for easy service

### INSTALLATION

- Horizontal or down discharge capable
- Utility connections on "right side"
- Tabbed duct flanges for simple duct connection

### ACCESSORIES

- Hinged roofcurbs
- Lifting brackets
- LP Gas Conversion
- Internal Filter Kits



### WARRANTY

10 year limited parts and compressor warranty/lifetime heat exchanger warranty available. See limited warranty document for details.

#### California Only

If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/j), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).

If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/j), and thus is subject to a mitigation fee of up to \$450.



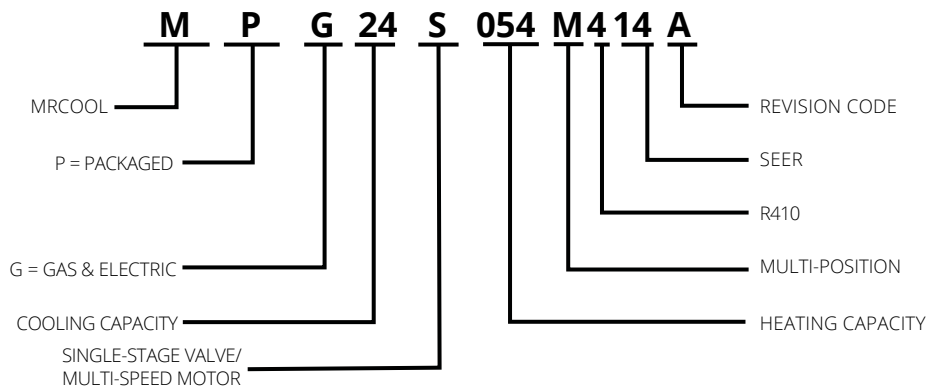
Unitary Small AC  
AHRI Standard 210/240  
Certification applies only when the complete system is listed with AHRI.



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**MODEL NUMBER GUIDE**



**ELECTRICAL AND PHYSICAL DATA**

Model	Voltage	Phase	Hz	Min Volts @ 60 hz	MCA	Max Fuse/HACR Breaker	Compressor		Condenser Motor		Blower Motor		Exhaust Motor		Refrig. Charge (oz.)	Weight (lbs.)
							RLA	LRA	FLA	HP	FLA	HP	RLA	HP		
MPG24S054M414A	208-230	1	60	197	14.4	20	8.6	43.5	1.0	1/6	2.8	1/3	0.22	1/50	72	347
MPG30S054M414A					18.22	25	10.6	47			4.1	1/2			80	358
MPG36S090M414A					22.7	35	15.7	72.2			4.1	1/2			87	376
MPG42S090M414A					27.5	40	15.9	112.3	1.7	1/4	6	3/4			108	457
MPG48S108M414A					28.7	45	16.9	94			6	3/4			115	481
MPG60S108M414A					38.9	60	26.4	152.5	7.6	1.0	125	507				

**PERFORMANCE**

Model	COOLING					HEATING				Sound dBA
	Rated AHRI Capacity Btuh	SEER	EER	Rated Sensible Capacity Btuh	CFM	Input BTUH	Output BTUH	Efficiency AFUE	Temp Rise Range F	
MPG24S054M414A	22,600	14.0	11.0	17,400	800	54,000	43,800	81%	30-60	77
						72,000	58,400		40-70	
MPG30S054M414A	28,400			21,900	1000	54,000	43,800		30-60	79
						72,000	58,400		40-70	
MPG36S090M414A	34,000			26,100	1200	54,000	43,800		30-60	78
						72,000	58,400		35-65	
						90,000	72,900		40-70	
MPG42S090M414A	40,000	30,800	1400	72,000	58,400	30-60	77			
				90,000	72,900	40-70				
MPG48S108M414A	45,500	35,000	1600	108,000	87,500	40-70	77			
				126,000	102,100	45-75				
MPG60S108M414A	57,000	41,600	1800	108,000	87,500	40-70	78			
				126,000	102,100	45-75				

\*Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

**BLOWER PERFORMANCE**

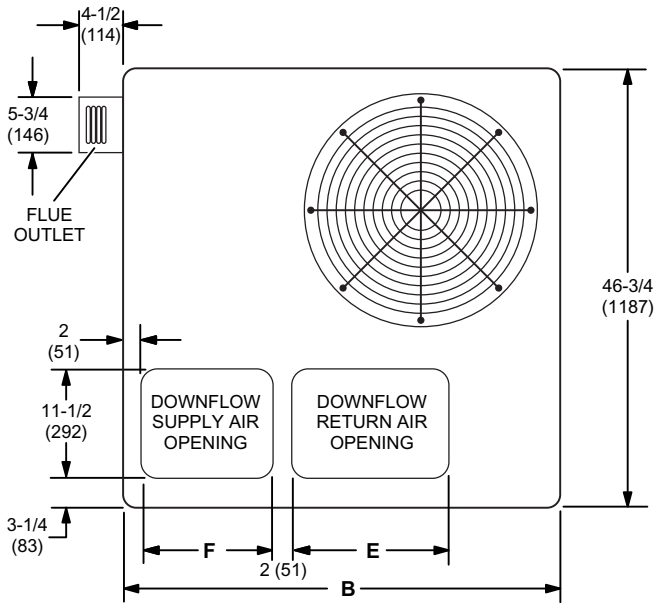
Model	Blower Tap	CFM @ext. Static Pressure in in. wc without filter, dry coil									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
MPG24S054M414A	TAP 1	610	560	525	485	430	N/A	N/A	N/A	N/A	N/A
	TAP 2	820	795	760	720	690	650	615	575	540	470
	TAP 3	950	920	880	850	820	800	760	720	680	625
MPG30S054M414A	TAP 1	850	820	780	745	710	680	630	590	550	515
	TAP 2	1040	1000	970	935	900	875	845	815	770	735
	TAP 3	1175	1145	1115	1080	1050	1015	990	945	900	860
MPG36S090M414A	TAP 1	850	800	750	700	645	600	550	480	435	N/A
	TAP 2	1245	1210	1175	1140	1100	1065	1025	975	920	845
	TAP 3	1400	1370	1335	1300	1265	1220	1180	1150	1060	875
MPG42S090M414A	TAP 1	800	720	640	550	475	390	310	N/A	N/A	N/A
	TAP 2	1470	1410	1360	1300	1260	1210	1155	1095	1000	940
	TAP 3	1700	1650	1610	1575	1540	1480	1430	1390	1340	1210
MPG48S108M414A	TAP 1	1145	1075	1000	930	850	790	740	670	570	490
	TAP 2	1675	1630	1600	1540	1490	1440	1390	1300	1230	1125
	TAP 3	1800	1770	1715	1690	1640	1610	1565	1500	1460	1380
MPG60S108M414A	TAP 1	1400	1320	1260	1200	1120	1060	980	900	N/A	N/A
	TAP 2	1920	1870	1820	1770	1720	1670	1450	1360	N/A	N/A
	TAP 3	2235	2195	2165	2130	2090	2060	2025	1985	1960	1940

**COOLING PERFORMANCE - EXTENDED RATINGS**

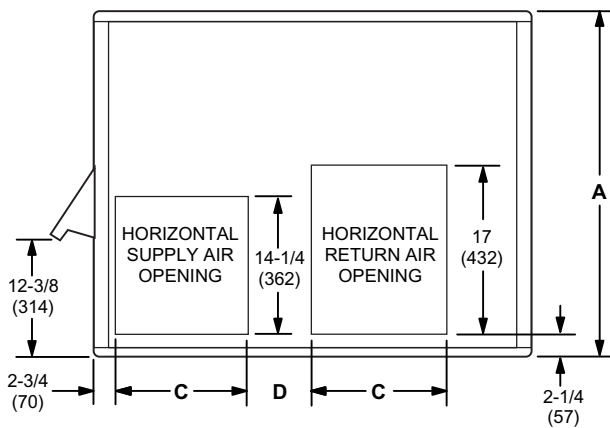
Outdoor Model	Indoor Temp DB/WB °F	Outdoor Temperature - DB °F														
		65°			82° / 67 °			95° / 75 °			105° / 85 °			115° / 95°		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
MPG24S054-M414A	85 / 72	30,600	0.65	1.33	27,700	0.68	1.65	24,700	0.70	1.88	23,100	0.72	2.06	22,500	0.75	2.26
	80 / 67	27,900	0.71	1.35	25,500	0.74	1.65	22,600	0.77	1.88	21,200	0.79	2.06	20,700	0.82	2.25
	75 / 63	26,000	0.74	1.36	23,800	0.77	1.65	21,000	0.79	1.87	20,700	0.82	2.05	19,300	0.84	2.23
	75 / 57	23,800	1	1.39	22,100	1	1.64	20,700	1	1.87	19,600	1	2.04	18,500	1.00	2.22
MPG30S054-M414A	85 / 72	38,200	0.68	1.83	34,700	0.71	2.16	32,000	0.74	2.42	30,500	0.74	2.6	29,000	0.78	2.86
	80 / 67	35,200	0.75	1.76	32,300	0.78	2.11	28,400	0.75	2.34	28,100	0.84	2.57	25,100	0.8	2.74
	75 / 63	33,000	0.77	1.71	30,400	0.8	2.06	27,700	0.8	2.31	25,900	0.82	2.51	24,100	0.84	2.72
	75 / 57	29,900	1	1.66	28,300	1	2.01	26,600	1	2.29	25,200	1	2.49	23,700	1	2.7
MPG36S090-M414A	85 / 72	45,800	0.68	2.09	41,700	0.72	2.49	37,600	0.73	2.82	35,400	0.74	3.1	32,400	0.75	3.39
	80 / 67	40,800	0.75	2.1	38,500	0.75	2.51	34,400	0.79	2.81	33,200	0.84	3.09	30,500	0.85	3.38
	75 / 63	38,100	0.76	2.11	36,000	0.77	2.51	32,300	0.81	2.80	30,500	0.84	3.08	28,400	0.87	3.37
	75 / 57	35,200	1	2.14	33,600	1	2.5	30,700	1	2.80	29,200	1	3.07	27,400	1	3.36
MPG42S090-M414A	85 / 72	54,500	0.67	2.51	48,900	0.71	2.9	45,700	0.73	3.28	44,200	0.74	3.64	42,800	0.75	4.08
	80 / 67	50,100	0.74	2.52	45,100	0.78	2.91	40,000	0.77	3.28	38,400	0.79	3.64	35,700	0.8	4.05
	75 / 63	46,800	0.76	2.52	42,700	0.8	2.91	38,800	0.81	3.29	36,300	0.82	3.65	33,500	0.83	4.06
	75 / 57	42,500	1	2.53	39,700	1	2.93	37,100	1	3.3	35,100	1	3.66	33,100	1	4.07
MPG48S108-M414A	85 / 72	59,400	0.69	2.78	53,900	0.72	3.29	49,700	0.72	3.6	47,100	0.75	4.09	43,600	0.75	4.48
	80 / 67	54,600	0.75	2.8	49,900	0.77	3.3	46,000	0.80	3.71	42,900	0.8	4.07	40,000	0.81	4.47
	75 / 63	50,700	0.76	2.82	46,700	0.79	3.3	43,300	0.82	3.7	40,400	0.82	4.06	38,100	0.86	4.47
	75 / 57	47,200	1	2.83	43,800	1	3.29	41,000	1	3.7	39,000	1	4.06	36,900	1	4.47
MPG60S108-M414A	85 / 72	70,300	0.63	3.5	66,100	0.64	4.19	62,800	0.65	4.72	59,200	0.7	5.27	55,500	0.76	5.82
	80 / 67	65,700	0.69	3.47	61,000	0.71	4.08	57,400	0.73	4.69	54,300	0.78	5.24	51,200	0.83	5.78
	75 / 63	61,400	0.72	3.45	56,300	0.74	4.12	52,300	0.76	4.63	50,200	0.8	5.19	48,000	0.85	5.75
	75 / 57	54,500	1	3.42	50,100	1	4.09	50,100	1	4.09	46,700	1	5.17	45,900	1	5.73

**DIMENSIONS (IN.)**

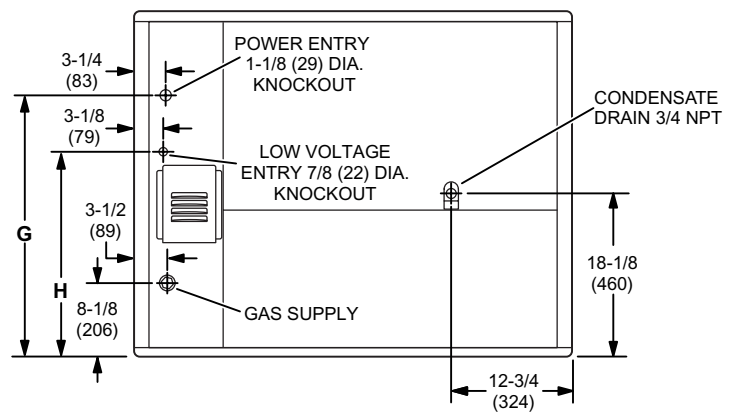
Model	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
MPG24S054M414A	36-7/8	937	46-3/4	1187	13-3/8	340	5-7/8	149	16-3/4	425	14	356	28-1/8	714	22-1/8	562
MPG30S054M414A																
MPG36S090M414A																
MPG42S090M414A	40-7/8	1038	55-1/4	1403	18-1/8	467	4-5/8	117	19-3/4	502	19-1/2	495	32-1/8	816	26-1/8	664
MPG48S108M414A																
MPG60S108M414A																



**TOP VIEW**

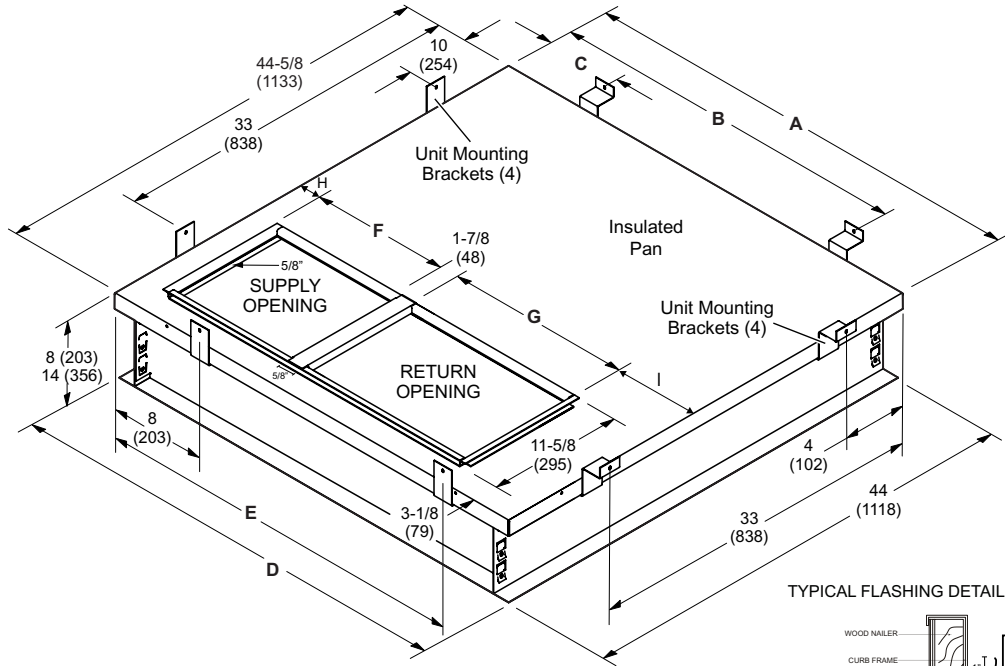


**BACK VIEW**

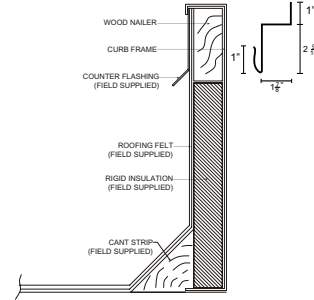


**RIGHT SIDE VIEW**

**ROOF CURB DIMENSIONS**



TYPICAL FLASHING DETAIL



Usage	A		B		C		D		E	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24, 36	44-5/8	1133	43	1092	18	457	44	1118	37	940
48, 60	53-1/8	1349	51	1295	24	610	52-1/2	1334	41	1041
Usage	F		G							
	in.	mm	in.	mm						
24, 36	14	356	16-3/4	425						
48, 60	19-1/2	495	19-3/4	502						

**ACCESSORIES**

Description	Where Used	Kit Number
Compressor Crankcase Heater	36, 42, 48, 60	11X27
Compressor Hard Start Kit	36, 60	10J42
Compressor Hard Start Kit	42, 48	88M91
Compressor Timed-Off Control	All	47J27
Down Flow Conversion - ACONVR836	24, 30, 36	1.851401
Down Flow Conversion - ACONVR837	42, 48, 60	1.851402
Drain pan overflow switch	All	11U75
Filter Rack Kit	24, 30, 36	11U73
Filter Rack Kit	42, 48, 60	11U74
Lifting Brackets	All	11U76
LPG/Propane Conversion Kit	All	11U77
Sideflow Rect. to 14" Rounds Duct Adapter (Qty 25 sets)	24, 30, 36	R104617-01
	42, 48, 60	R104618-01
8" Height Full Perimeter Curb	24, 30, 36	14W71
8" Height Full Perimeter Curb	42, 48, 60	14W72
14" Height Full Perimeter Curb	24, 30, 36	14V68
14" Height Full Perimeter Curb	42, 48, 60	14V69

All specifications and illustrations subject to change without notice and without incurring obligations.