



MRCOOL VersaPro Series Gas Package Unit Instruction Manual

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MRCOOL VersaPro Series Gas Package Unit



Features

- LP conversion kit provided.
- Aluminized steel tubular heat exchanger.
- Quiet multi-speed circulation blower.
- Direct spark ignition.
- High quality heat exchanger.
- Horizontal or down flow application.
- Convenient access panels.
- AHRI Certified and ETL listed.

Nomenclature

M	P	G	24	S	060	M	4	13	B
1	2	3	4	5	6	7	8	9	10

Legend		
No.	Code	Remarks
1	M	MRCOOL
2	P	Packaged
3	G	Gas & Electric
4	24	Cooling Capacity: 24: 24 kBtu/h; 30: 30 kBtu/h; 36: 36 kBtu/h; 42: 42 kBtu/h; 48: 48 kBtu/h; 60: 60 kBtu/h;
5	S	Stage type: S: Single stage; M: Multi-speed
6	060	Heating capacity: 060: 60 kBtu/h; 090: 90 kBtu/h; 110: 110 kBtu/h;
7	M	M = Multi-Position (Horizontal/Downflow H = Horizontal
8	4	Refrigerant type: 4 = R410A
9	13	SEER2: 13.4
10	B	3rd Generation

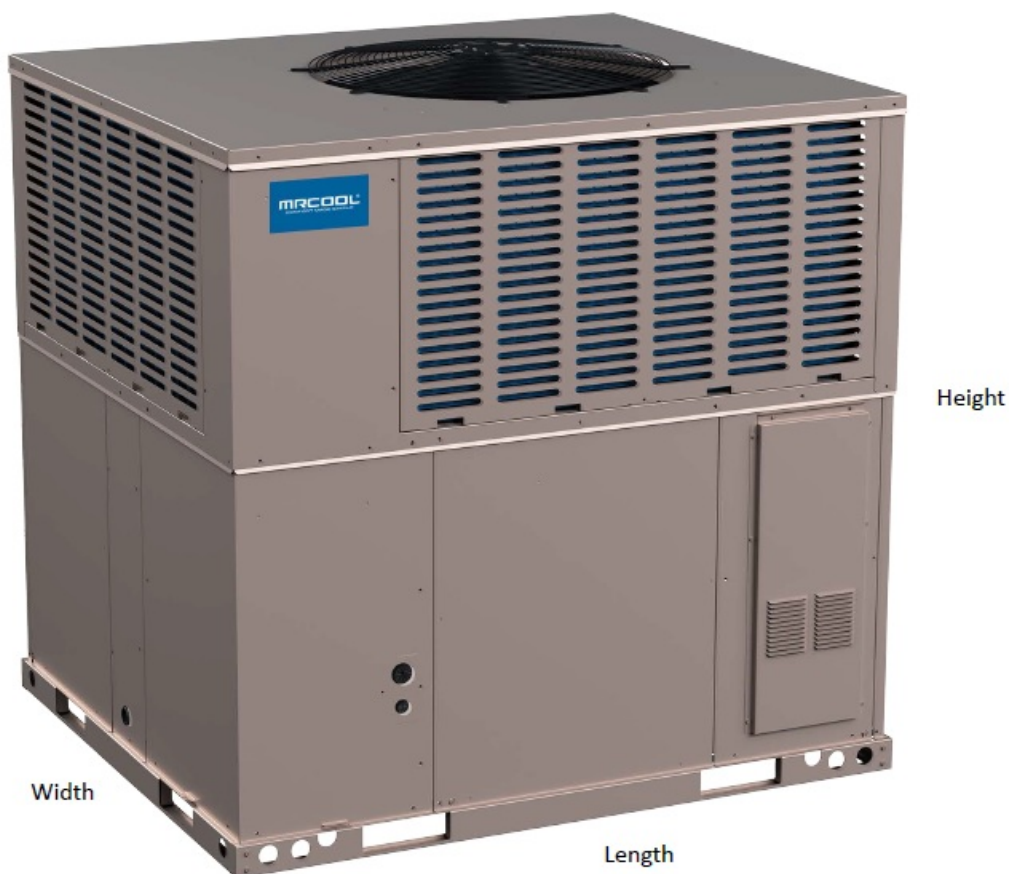
Specifications

	MPG24S060M41 3B	MPG30S060M41 3B	MPG36S090M41 3B	MPG42S090M41 3B
NOMINAL CAPACITY				
Cooling (BTU/h)	24,000	30,000	36,000	42000
Heating (BTU/h) Input Heating (BTU/h) Output AFUE Temperature Rise Range (F)	60000480008130-60	60000480008130-60	90000720008140-70	90000720008135-65
ELECTRICAL DATA Voltage / Phase (60 Hz) Min. / Max. VoltageMCA/MOP	208/230 / 1187/2531925	208/230 / 1187/2532130	208/230 / 1187/2532335	208/230 / 1187/2532840
COMPRESSOR Type Stage RLALRA	Rotary Single 11.043.0	Rotary Single 13.058.0	Rotary Single 14.072.0	Scroll Single 16112.3
OUTDOOR COIL Type Tube Size(O.D)	Microchannel 20/32	Microchannel 20/32	Microchannel 20/32	Microchannel 20/32
OUTDOOR FAN MOTOR Motor Type Horsepower (HP) Full Load Amps (FLA)Rated RPM	PSC 1/120.61900	PSC1/61850	PSC1/61850	PSC1/31.91050
INDOOR COIL Type Tube Size(O.D)	Tube & Fin 9/32	Tube & Fin 9/32	Tube & Fin 9/32	Tube & Fin 9/32
INDOOR BLOWER MOTOR Motor Type Capacitor(uF) Horsepower (HP) Full Load Amps (FLA)Rated RPM	ECM/ 1/24.21050	ECM/ 1/24.21050	ECM/ 1/24.21050	ECM/ 3/45.71050
REFRIGERATION SYSTEM Refrigerant Control Refrigerant Charge (oz.)	Orifice47.6	Orifice52.9	Orifice52.9	Orifice70.5
SOUND POWER (DB)	79	79	79	80

	MPG48S090M413B	MPG60S110M413B
NOMINAL CAPACITY		
Cooling (BTU/h)	48,000	60000
Heating (BTU/h) Input Heating (BTU/h) Output AFUE Temperature Rise Range (F)	90000 72000 81 30-60	110000 88000 81 30-60

ELECTRICAL DATA	208/230 / 1	208/230 / 1
Voltage / Phase (60 Hz) Min. / Max. Voltage	187/253	187/253
MCA	31	37
MOP	50	60
COMPRESSOR		
Type Stage RLA LRA	Rotary Single 13.0 58.0	Scroll Single 16.0112.3
OUTDOOR COIL		
Type Tube Size(O.D)	Microchannel 20/32	Microchannel 20/32
OUTDOOR FAN MOTOR	PSC	PSC
Motor Type Horsepower (HP) Full Load Amps (FLA) Rated RPM	1/3 1.9 1050	1/3 1.9 1050
INDOOR COIL		
Type Tube Size(O.D)	Tube & Fin 9/32	Tube & Fin 9/32
INDOOR BLOWER MOTOR	ECM	ECM
Motor Type Capacitor(uF) Horsepower (HP) Full Load Amps (FLA) Rated RPM	/ 3/4 5.7 1050	/ 3/4 5.7 1050
REFRIGERATION SYSTEM	Orifice	Orifice
Refrigerant Control Refrigerant Charge (oz.)	72.3	74.1
SOUND POWER (DB)	80	80

Dimensions



	MPG24S060M41 3B	MPG30S060M41 3B	MPG36S090M41 3B	MPG42S090M41 3B
UNIT DIMENSION AND WEIGHTS	46-13/16	46-13/16	46-13/16	46-13/16
Height (in.) Width (in.) Length (in.)	35-1/16	35-1/16	35-1/16	35-1/16
Net Weight (lbs.)	50-11/16	50-11/16	50-11/16	50-11/16
	428	437	443	474

	MPG48S090M413B	MPG60S110M413B
UNIT DIMENSION AND WEIGHTS	51-7/16	51-7/16
Height (in.) Width (in.) Length (in.)	44-13/16	44-13/16
Net Weight (lbs.)	50-9/16	50-9/16
	536	569

Airflow Data

Model Number	Motor Speed	External Static Pressure-Inches W.C.[kPa]										
		0[0]	0.1[.02]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]	0.9[.23]	1.0[.25]

	p4)	Current /A	/	/	/	/	/	3.03	3.04	3.13	3.18	3.24	3.28
		Power/W	/	/	/	/	/	359	354	371	378	385	391
	High (Tap5)	CFM	/	/	/	/	/	/	/	/	/	103 2	991
		Current /A	/	/	/	/	/	/	/	/	/	4.03	3.98
		Power/W	/	/	/	/	/	/	/	/	/	495	482
36	Low (Tap1)	CFM	91 7	855	/	/	/	/	/	/	/	/	/
		Current /A	1. 37	1.39	/	/	/	/	/	/	/	/	/
		Power/W	13 7	140	/	/	/	/	/	/	/	/	/
	Middle-1 (Tap2)	CFM	10 51	997	940	885	/	/	/	/	/	/	/
		Current /A	1. 78	1.81	1.86	1.88	/	/	/	/	/	/	/
		Power/W	19 1	196	201	201	/	/	/	/	/	/	/
	Middle-2 (Tap3)	CFM	12 04	115 3	110 0	104 9	995	947	898	/	/	/	/
		Current /A	2. 4	2.45	2.44	2.51	2.57	2.6	2.67	/	/	/	/
		Power/W	27 5	282	276	288	297	299	311	/	/	/	/
	Middle-3 (Tap4)	CFM	12 81	124 0	119 0	114 2	109 2	104 5	997	951	908	/	/
		Current /A	2. 82	2.84	2.85	2.96	3	3.03	3.04	3.13	3.18	/	/
		Power/W	33 1	333	330	350	357	359	354	371	378	/	/
	High (Tap5)	CFM	/	/	/	/	128 0	124 4	119 4	114 0	108 3	103 2	991
		Current /A	/	/	/	/	3.95	4.08	4.07	4	4.06	4.03	3.98
		Power/W	/	/	/	/	481	507	504	486	502	495	482

Model

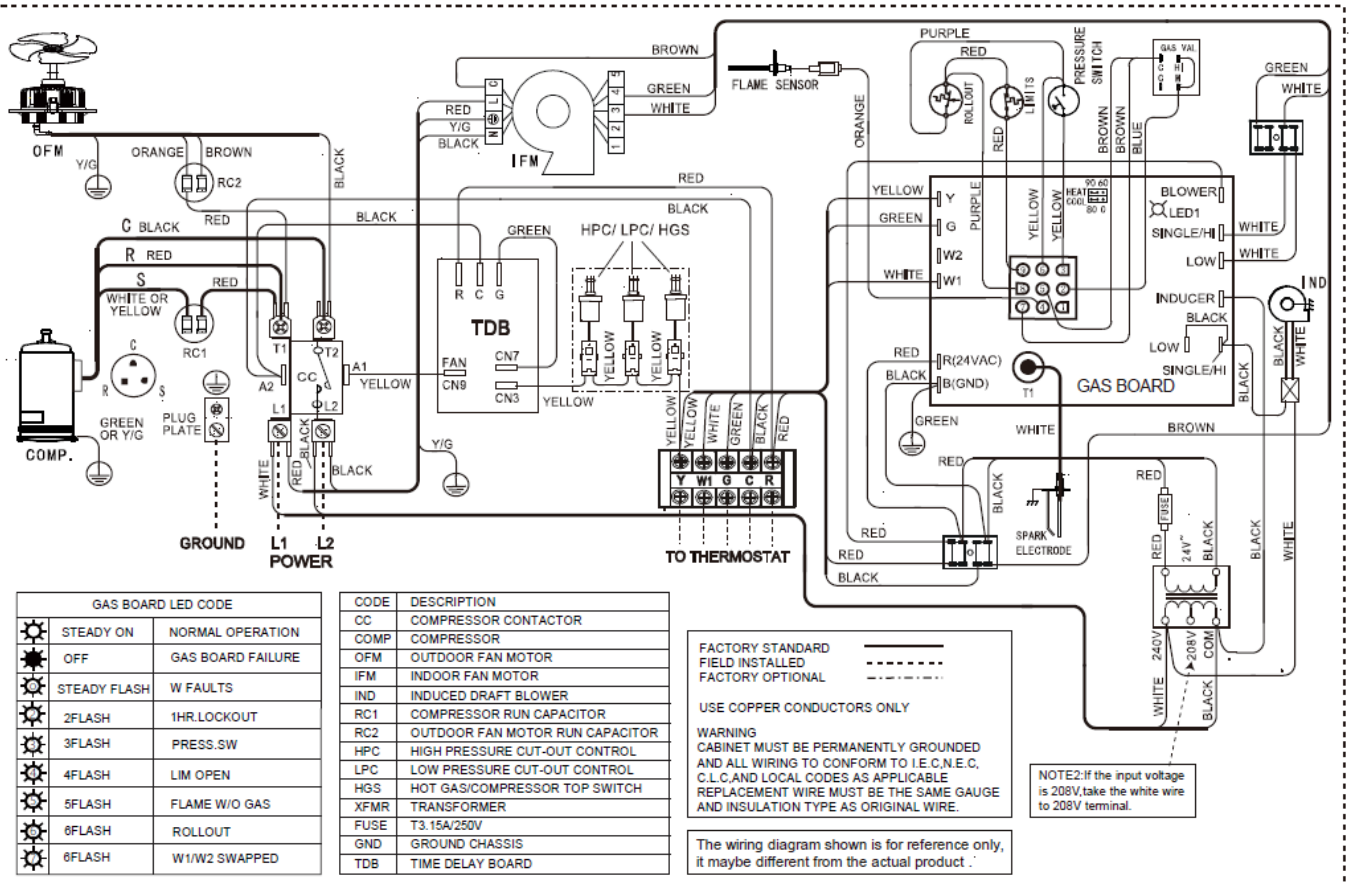
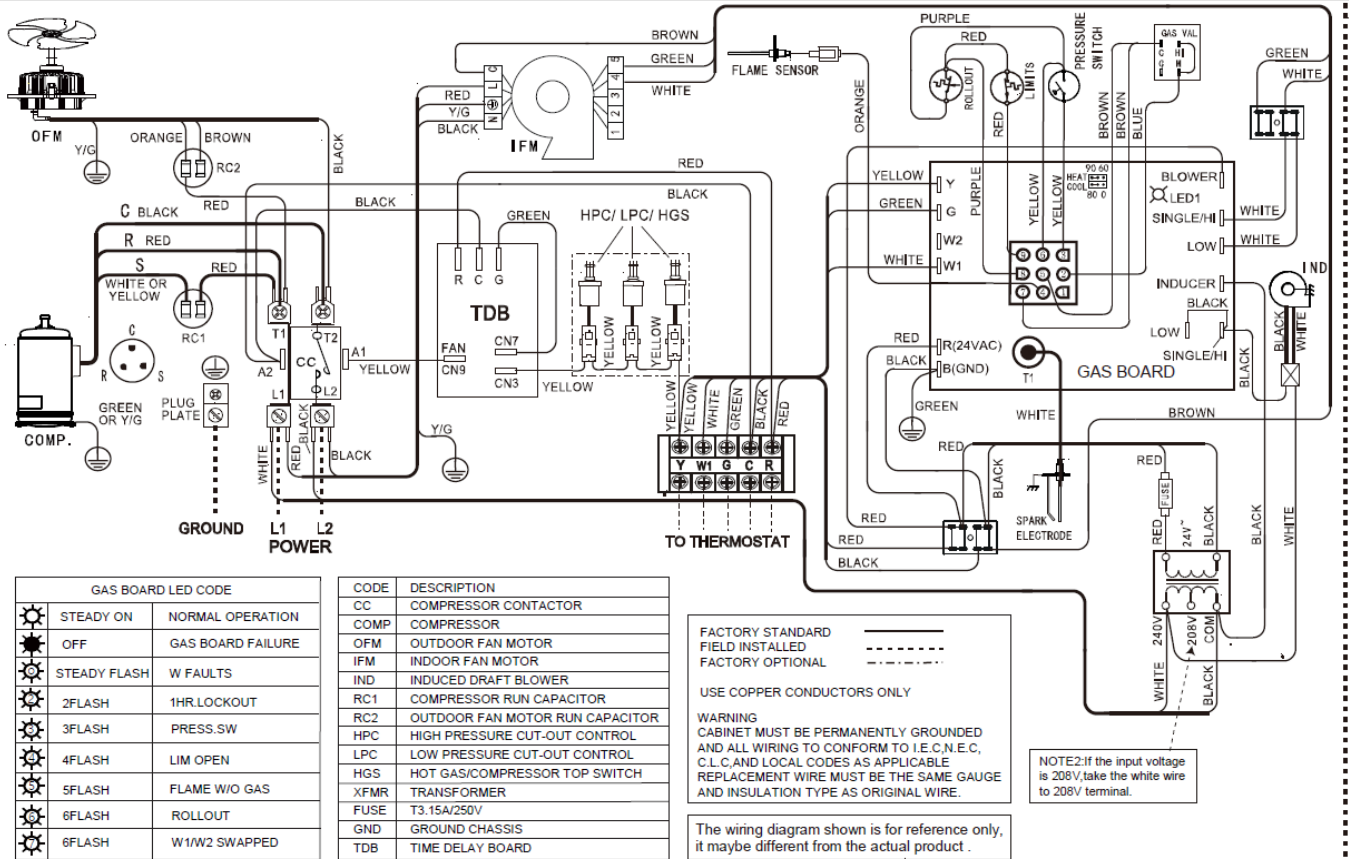
Number	Motor Speed		0[0]	0.1[. 02]	0.2[. 05]	0.3[. 07]	0.4[. 10]	0.5[. 12]	0.6[. 15]	0.7[. 17]	0.8[. 20]	0.9[. 23]	1.0[. 25]
42	Middle-1 (Ta p2)	CFM	11 53	110 2	105 6	/	/	/	/	/	/	/	/
		Current /A	2. 09	2.13	2.18	/	/	/	/	/	/	/	/
		Power/ W	22 7	233	239	/	/	/	/	/	/	/	/
	Middle-2 (Ta p3)	CFM	14 26	138 8	134 3	130 6	126 7	122 9	119 2	115 6	109 3	/	/
		Current /A	3. 49	3.53	3.55	3.66	3.71	3.77	3.84	3.88	3.92	/	/
		Power/ W	41 6	422	418	438	445	453	463	468	473	/	/
	Middle-3 (Ta p4)	CFM	/	/	/	/	147 2	142 8	139 2	135 4	130 9	/	/
		Current /A	/	/	/	/	5.08	5.06	5.09	5.13	5.12	/	/
		Power/ W	/	/	/	/	634	629	633	639	638	/	/
	High (Tap5)	CFM	/	/	/	/	/	150 0	146 0	139 8	132 1	/	/
		Current /A	/	/	/	/	/	5.65	5.61	5.41	5.19	/	/
		Power/ W	/	/	/	/	/	710	700	670	640	/	/
48	Middle-1 (Ta p2)	CFM	12 51	/	/	/	/	/	/	/	/	/	/
		Current /A	1. 67	/	/	/	/	/	/	/	/	/	/
		Power/ W	19 2	/	/	/	/	/	/	/	/	/	/
	Middle-2 (Ta p3)	CFM	15 47	147 3	142 4	137 4	132 3	126 7	121 3	/	/	/	/
		Current /A	2. 8	2.87	2.95	3.04	3.12	3.21	3.3	/	/	/	/
		Power/ W	34 0	350	360	371	382	394	407	/	/	/	/
	Middle-3 (Ta p4)	CFM	17 89	174 1	169 5	164 9	160 5	155 9	151 0	146 0	140 9	135 9	131 3
		Current /A	4. 11	4.19	4.28	4.36	4.45	4.54	4.64	4.74	4.83	4.92	5

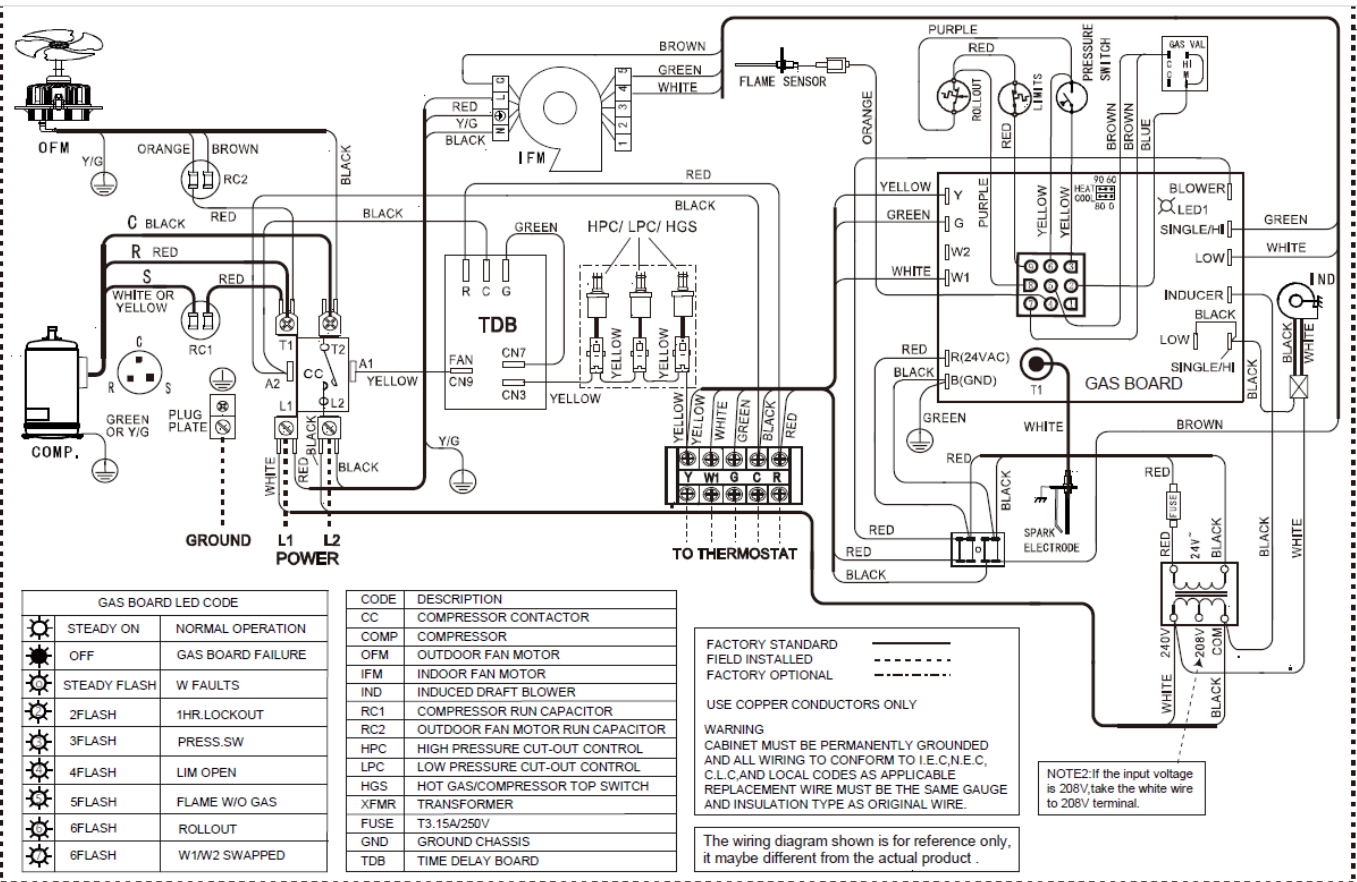
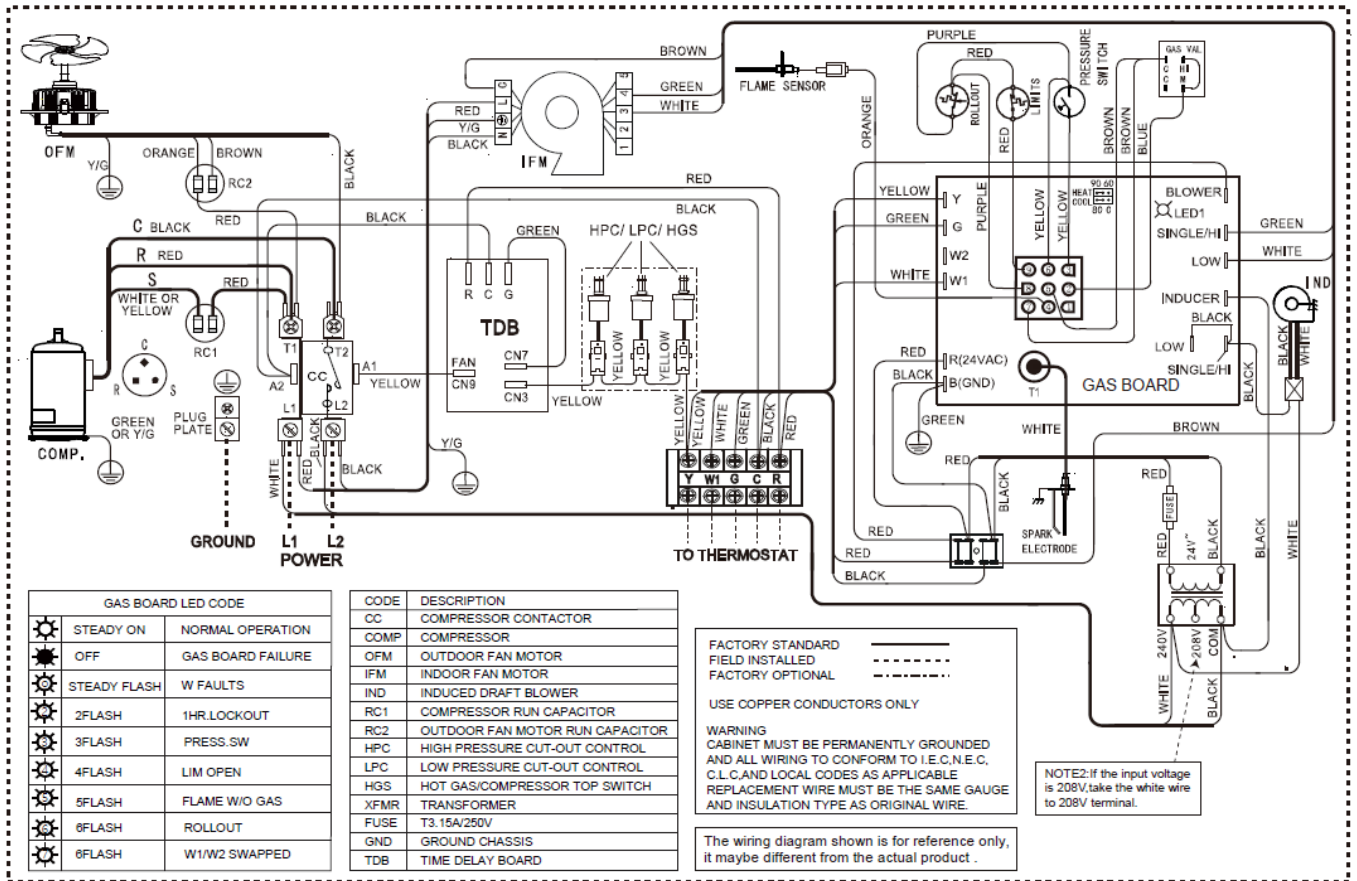
		Power/ W	51 7	528	540	551	564	576	589	603	615	627	639
	High (Tap5)	CFM	/	/	/	/	/	175 5	169 6	163 0	156 3	149 0	143 8
		Current /A	/	/	/	/	/	5.79	5.76	5.73	5.71	5.68	5.66
		Power/ W	/	/	/	/	/	750	745	741	737	733	730
60	Middle-2 (Tap3)	CFM	15 47	147 3	/	/	/	/	/	/	/	/	/
		Current /A	2. 8	2.87	/	/	/	/	/	/	/	/	/
		Power/ W	34 0	350	/	/	/	/	/	/	/	/	/
	Middle-3 (Tap4)	CFM	17 89	174 1	169 5	164 9	160 5	155 9	151 0	146 0	/	/	/
		Current /A	4. 11	4.19	4.28	4.36	4.45	4.54	4.64	4.74	/	/	/
		Power/ W	51 7	528	540	551	564	576	589	603	/	/	/
	High (Tap5)	CFM	20 35	197 6	192 7	187 5	181 5	175 5	169 6	163 0	156 3	149 0	143 8
		Current /A	5. 66	5.74	5.81	5.85	5.82	5.79	5.76	5.73	5.71	5.68	5.66
		Power/ W	73 3	744	754	758	754	750	745	741	737	733	730

Airflow performance data is based on cooling performance with a coil and no filter in place. Use this performance table for appropriate unit size, external static applied to unit and allow operation within the minimum and maximum limits shown in table below for both cooling and electric heat operation.

Wiring Diagrams

MPG24S060M413B





	MRCOOL VersaPro Series Gas Package Unit [pdf] Instruction Manual 24, 30, 36, 42, VersaPro Series Gas Package Unit, VersaPro Series, Gas Package Unit, Package Unit
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References

- [User Manual](#)

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