



# DiamondAir DGP14 Series Packaged Gas Electric

13.4 SEER2

Capacity: 24 - 60 kBTU/h



## Contents:

1 NOMENCLATURE.....	2
2 SPECIFICATIONS.....	3
3 DIMENSIONS.....	5
4 AIRFLOW DATA.....	6
5 WIRING DIAGRAMS.....	8



## 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.

## 1 Nomenclature

**D - GP - 14 - 24 - 60 - AC - G - 2**

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**1      2      3      4      5      6      7      8**

Legend		
No.	Code	Remarks
1	D	Brand: DiamondAir
2	GP	Type: Gas Package Unit
3	14	Series: 14
4	24	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	60	Gas heating capacity: 060: 60 kBtu/h; 090: 90 kBtu/h; 110: 110 kBtu/h;
6	AC	Setup: Central Air
7	G	Compressor type: G: GMCC compressor; L: LG compressor
8	2	Rating: SEER2

## 2 Specifications

	DGP142460ACG2	DGP143060ACG2	DGP143660ACG2	DGP144290ACL2
<b>NOMINAL CAPACITY</b>				
Cooling (BTU/h)	24,000	30,000	36,000	42000
Heating (BTU/h) Input	60000	60000	90000	90000
Heating (BTU/h) Output	48000	48000	72000	72000
AFUE	81	81	81	81
Temperature Rise Range (F)	30-60	30-60	40-70	35-65
<b>ELECTRICAL DATA</b>				
Voltage / Phase (60 Hz)	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1
Min. / Max. Voltage	187/253	187/253	187/253	187/253
MCA	19	21	23	28
MOP	25	30	35	40
<b>COMPRESSOR</b>				
Type	Rotary	Rotary	Rotary	Scroll
Stage	Single	Single	Single	Single
RLA	11.0	13.0	14.0	16
LRA	43.0	58.0	72.0	112.3
<b>OUTDOOR COIL</b>				
Type	Microchannel	Microchannel	Microchannel	Microchannel
Tube Size(O.D)	20/32	20/32	20/32	20/32
<b>OUTDOOR FAN MOTOR</b>				
Motor Type	PSC	PSC	PSC	PSC
Horsepower (HP)	1/12	1/6	1/6	1/3
Full Load Amps (FLA)	0.61	1	1	1.9
Rated RPM	900	850	850	1050
<b>INDOOR COIL</b>				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size(O.D)	9/32	9/32	9/32	9/32
<b>INDOOR BLOWER MOTOR</b>				
Motor Type	ECM	ECM	ECM	ECM
Capacitor(uF)	/	/	/	/
Horsepower (HP)	1/2	1/2	1/2	3/4
Full Load Amps (FLA)	4.2	4.2	4.2	5.7
Rated RPM	1050	1050	1050	1050
<b>REFRIGERATION SYSTEM</b>				
Refrigerant Control	Orifice	Orifice	Orifice	Orifice
Refrigerant Charge (lbs. - oz.)	2 - 15.6	3 - 4.9	3 - 4.9.	4 - 6.5
<b>SOUND POWER (DB)</b>				
	79	79	79	80

## 2 Specifications

	DGP144890ACL2	DGP1460110ACL2
<b>NOMINAL CAPACITY</b>		
Cooling (BTU/h)	48,000	60000
Heating (BTU/h) Input	90000	110000
Heating (BTU/h) Output	72000	88000
AFUE	81	81
Temperature Rise Range (F)	30-60	30-60
<b>ELECTRICAL DATA</b>		
Voltage / Phase (60 Hz)	208/230 / 1	208/230 / 1
Min. / Max. Voltage	187/253	187/253
MCA	31	37
MOP	50	60
<b>COMPRESSOR</b>		
Type	Rotary	Scroll
Stage	Single	Single
RLA	13.0	16.0
LRA	58.0	112.3
<b>OUTDOOR COIL</b>		
Type	Microchannel	Microchannel
Tube Size(O.D)	20/32	20/32
<b>OUTDOOR FAN MOTOR</b>		
Motor Type	PSC	PSC
Horsepower (HP)	1/3	1/3
Full Load Amps (FLA)	1.9	1.9
Rated RPM	1050	1050
<b>INDOOR COIL</b>		
Type	Tube & Fin	Tube & Fin
Tube Size(O.D)	9/32	9/32
<b>INDOOR BLOWER MOTOR</b>		
Motor Type	ECM	ECM
Capacitor(uF)	/	/
Horsepower (HP)	3/4	3/4
Full Load Amps (FLA)	5.7	5.7
Rated RPM	1050	1050
<b>REFRIGERATION SYSTEM</b>		
Refrigerant Control	Orifice	Orifice
Refrigerant Charge (lbs. - oz.)	4 - 8.3	4 - 10.1
<b>SOUND POWER (DB)</b>	80	80

3 Dimensions



	DGP142460ACG2	DGP143060ACG2	DGP143690ACG2	DGP144290ACL2
<b>UNIT DIMENSION AND WEIGHTS</b>				
Height (in.)	46-13/16	46-13/16	46-13/16	46-13/16
Width (in.)	35-1/16	35-1/16	35-1/16	35-1/16
Length (in.)	50-11/16	50-11/16	50-11/16	50-11/16
Net Weight (lbs.)	428	437	443	474

	DGP144890ACL2	DGP1460110ACL2
<b>UNIT DIMENSION AND WEIGHTS</b>		
Height (in.)	51-7/16	51-7/16
Width (in.)	44-13/16	44-13/16
Length (in.)	50-9/16	50-9/16
Net Weight (lbs.)	536	569

4 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]
24	Low (Tap1)	CFM	/	855	792	727	669	/	/	/	/	/	/
		Current/A	/	1.39	1.44	1.46	1.5	/	/	/	/	/	/
		Power/W	/	140	146	147	152	/	/	/	/	/	/
	Middle-1 (Tap2)	CFM	/	/	/	/	827	771	689	621	568	/	/
		Current/A	/	/	/	/	1.94	2	2.05	2.08	2.11	/	/
		Power/W	/	/	/	/	212	221	225	230	234	/	/
	Middle-2 (Tap3)	CFM	/	/	/	/	/	/	/	846	774	710	660
		Current/A	/	/	/	/	/	/	/	2.72	2.73	2.82	2.86
		Power/W	/	/	/	/	/	/	/	317	312	330	335
	Middle-3 (Tap4)	CFM	/	/	/	/	/	/	/	/	/	844	797
		Current/A	/	/	/	/	/	/	/	/	/	3.24	3.28
		Power/W	/	/	/	/	/	/	/	/	/	385	391
30	Low (Tap1)	CFM	917	855	792	/	/	/	/	/	/	/	/
		Current/A	1.37	1.39	1.44	/	/	/	/	/	/	/	/
		Power/W	137	140	146	/	/	/	/	/	/	/	/
	Middle-1 (Tap2)	CFM	1051	997	940	885	827	771	/	/	/	/	/
		Current/A	1.78	1.81	1.86	1.88	1.94	2	/	/	/	/	/
		Power/W	191	196	201	201	212	221	/	/	/	/	/
	Middle-2 (Tap3)	CFM	/	/	/	1049	995	947	898	846	774	710	/
		Current/A	/	/	/	2.51	2.57	2.6	2.67	2.72	2.73	2.82	/
		Power/W	/	/	/	288	297	299	311	317	312	330	/
	Middle-3 (Tap4)	CFM	/	/	/	/	/	1045	997	951	908	844	797
		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	/	/	/	/	/	/	/	/	/	1032	991
		Current/A	/	/	/	/	/	/	/	/	/	4.03	3.98
		Power/W	/	/	/	/	/	/	/	/	/	495	482
36	Low (Tap1)	CFM	917	855	/	/	/	/	/	/	/	/	/
		Current/A	1.37	1.39	/	/	/	/	/	/	/	/	/
		Power/W	137	140	/	/	/	/	/	/	/	/	/
	Middle-1 (Tap2)	CFM	1051	997	940	885	/	/	/	/	/	/	/
		Current/A	1.78	1.81	1.86	1.88	/	/	/	/	/	/	/
		Power/W	191	196	201	201	/	/	/	/	/	/	/
	Middle-2 (Tap3)	CFM	1204	1153	1100	1049	995	947	898	/	/	/	/
		Current/A	2.4	2.45	2.44	2.51	2.57	2.6	2.67	/	/	/	/
		Power/W	275	282	276	288	297	299	311	/	/	/	/
	Middle-3 (Tap4)	CFM	1281	1240	1190	1142	1092	1045	997	951	908	/	/
		Current/A	2.82	2.84	2.85	2.96	3	3.03	3.04	3.13	3.18	/	/
		Power/W	331	333	330	350	357	359	354	371	378	/	/
	High (Tap5)	CFM	/	/	/	/	1280	1244	1194	1140	1083	1032	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

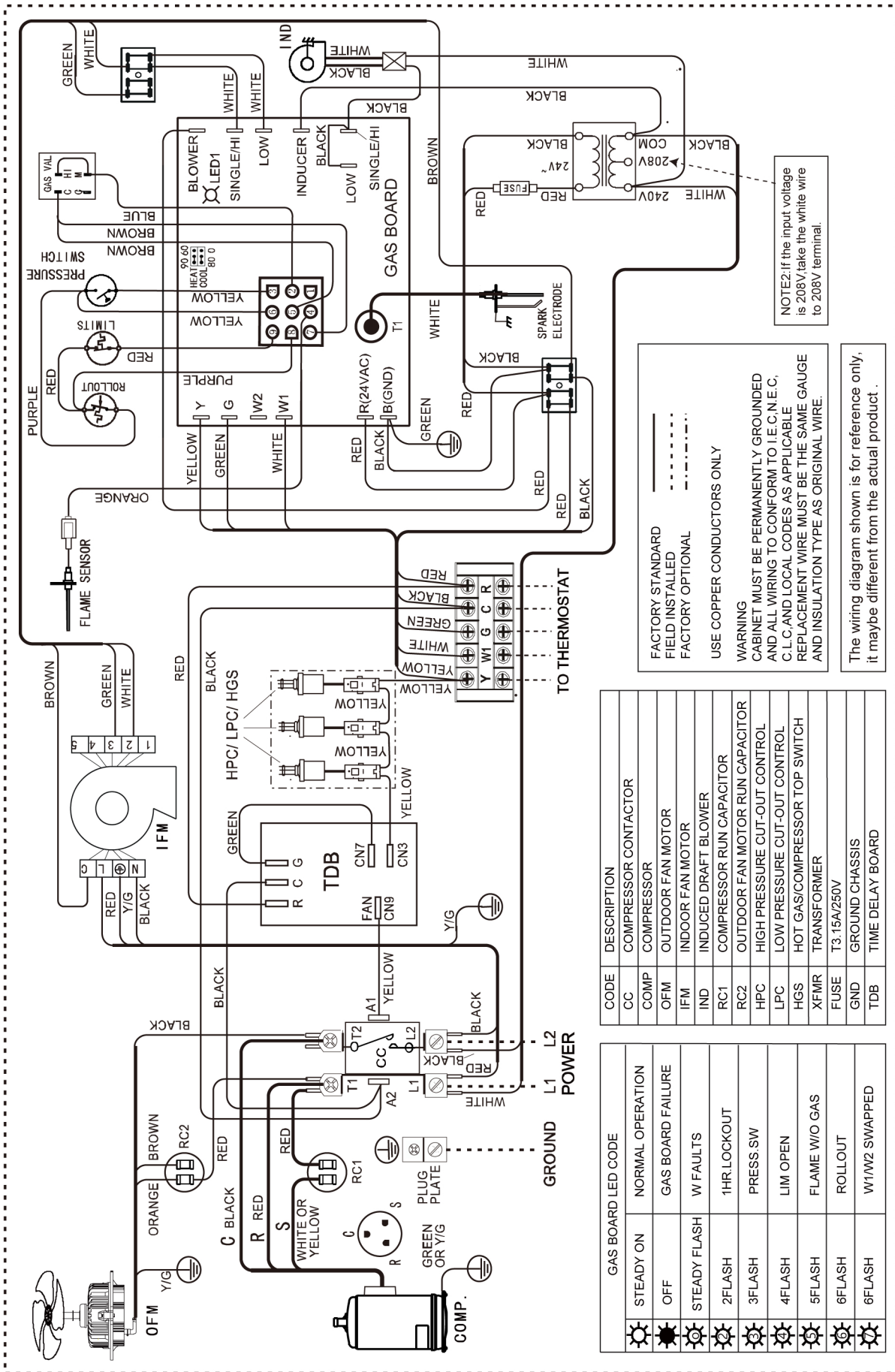
### 4 Airflow Data

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]
42	Middle-1 (Tap2)	CFM	1153	1102	1056	/	/	/	/	/	/	/	/
		Current/A	2.09	2.13	2.18	/	/	/	/	/	/	/	/
		Power/W	227	233	239	/	/	/	/	/	/	/	/
	Middle-2 (Tap3)	CFM	1426	1388	1343	1306	1267	1229	1192	1156	1093	/	/
		Current/A	3.49	3.53	3.55	3.66	3.71	3.77	3.84	3.88	3.92	/	/
		Power/W	416	422	418	438	445	453	463	468	473	/	/
	Middle-3 (Tap4)	CFM	/	/	/	/	1472	1428	1392	1354	1309	/	/
		Current/A	/	/	/	/	5.08	5.06	5.09	5.13	5.12	/	/
		Power/W	/	/	/	/	634	629	633	639	638	/	/
	High (Tap5)	CFM	/	/	/	/	/	1500	1460	1398	1321	/	/
		Current/A	/	/	/	/	/	5.65	5.61	5.41	5.19	/	/
		Power/W	/	/	/	/	/	710	700	670	640	/	/
48	Middle-1 (Tap2)	CFM	1251	/	/	/	/	/	/	/	/	/	
		Current/A	1.67	/	/	/	/	/	/	/	/	/	
		Power/W	192	/	/	/	/	/	/	/	/	/	
	Middle-2 (Tap3)	CFM	1547	1473	1424	1374	1323	1267	1213	/	/	/	/
		Current/A	2.8	2.87	2.95	3.04	3.12	3.21	3.3	/	/	/	/
		Power/W	340	350	360	371	382	394	407	/	/	/	/
	Middle-3 (Tap4)	CFM	1789	1741	1695	1649	1605	1559	1510	1460	1409	1359	1313
		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	517	528	540	551	564	576	589	603	615	627	639
	High (Tap5)	CFM	/	/	/	/	/	1755	1696	1630	1563	1490	1438
		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	1547	1473	/	/	/	/	/	/	/	/	
		Current/A	2.8	2.87	/	/	/	/	/	/	/	/	
		Power/W	340	350	/	/	/	/	/	/	/	/	
	Middle-3 (Tap4)	CFM	1789	1741	1695	1649	1605	1559	1510	1460	/	/	/
		Current/A	4.11	4.19	4.28	4.36	4.45	4.54	4.64	4.74	/	/	/
		Power/W	517	528	540	551	564	576	589	603	/	/	/
	High (Tap5)	CFM	2035	1976	1927	1875	1815	1755	1696	1630	1563	1490	1438
		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	733	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.

5 Wiring Diagrams

DGP142460ACG2



--- FACTORY STANDARD  
 - - - - - FIELD INSTALLED  
 ······ FACTORY OPTIONAL  
 --- USE COPPER CONDUCTORS ONLY  
**WARNING**  
 CABINET MUST BE PERMANENTLY GROUNDED  
 AND ALL WIRING TO CONFORM TO I.E.C., N.E.C.,  
 C.L.C. AND LOCAL CODES AS APPLICABLE  
 REPLACEMENT WIRE MUST BE THE SAME GAUGE  
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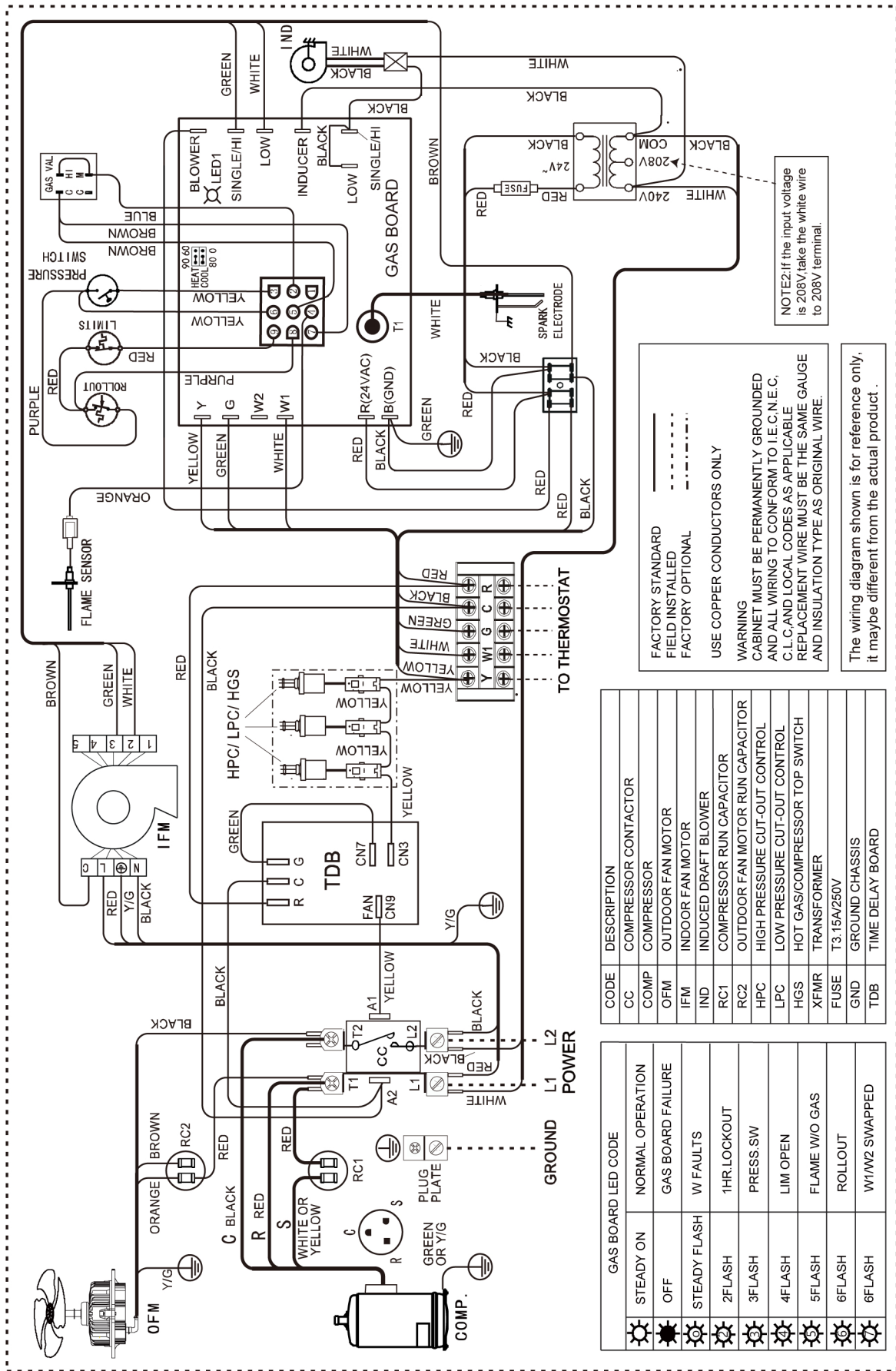
CODE	DESCRIPTION
CC	COMPRESSOR CONTACTOR
COMP	COMPRESSOR
OFM	OUTDOOR FAN MOTOR
IFM	INDOOR FAN MOTOR
IND	INDUCED DRAFT BLOWER
RC1	COMPRESSOR RUN CAPACITOR
RC2	OUTDOOR FAN MOTOR RUN CAPACITOR
HPC	HIGH PRESSURE CUT-OUT CONTROL
LPC	LOW PRESSURE CUT-OUT CONTROL
HGS	HOT GAS/COMPRESSOR TOP SWITCH
XFMR	TRANSFORMER
FUSE	T3.15A/250V
GND	GROUND CHASSIS
TDB	TIME DELAY BOARD

GAS BOARD LED CODE	DESCRIPTION
●	STEADY ON
●	NORMAL OPERATION
●	OFF
●	GAS BOARD FAILURE
●	STEADY FLASH
●	W FAULTS
●	2FLASH
●	1HR. LOCKOUT
●	3FLASH
●	PRESS SW
●	4FLASH
●	LIM OPEN
●	5FLASH
●	FLAME W/O GAS
●	6FLASH
●	ROLLOUT
●	6FLASH
●	W1/W2 SWAPPED



Wiring Diagrams

DGP143060ACG2

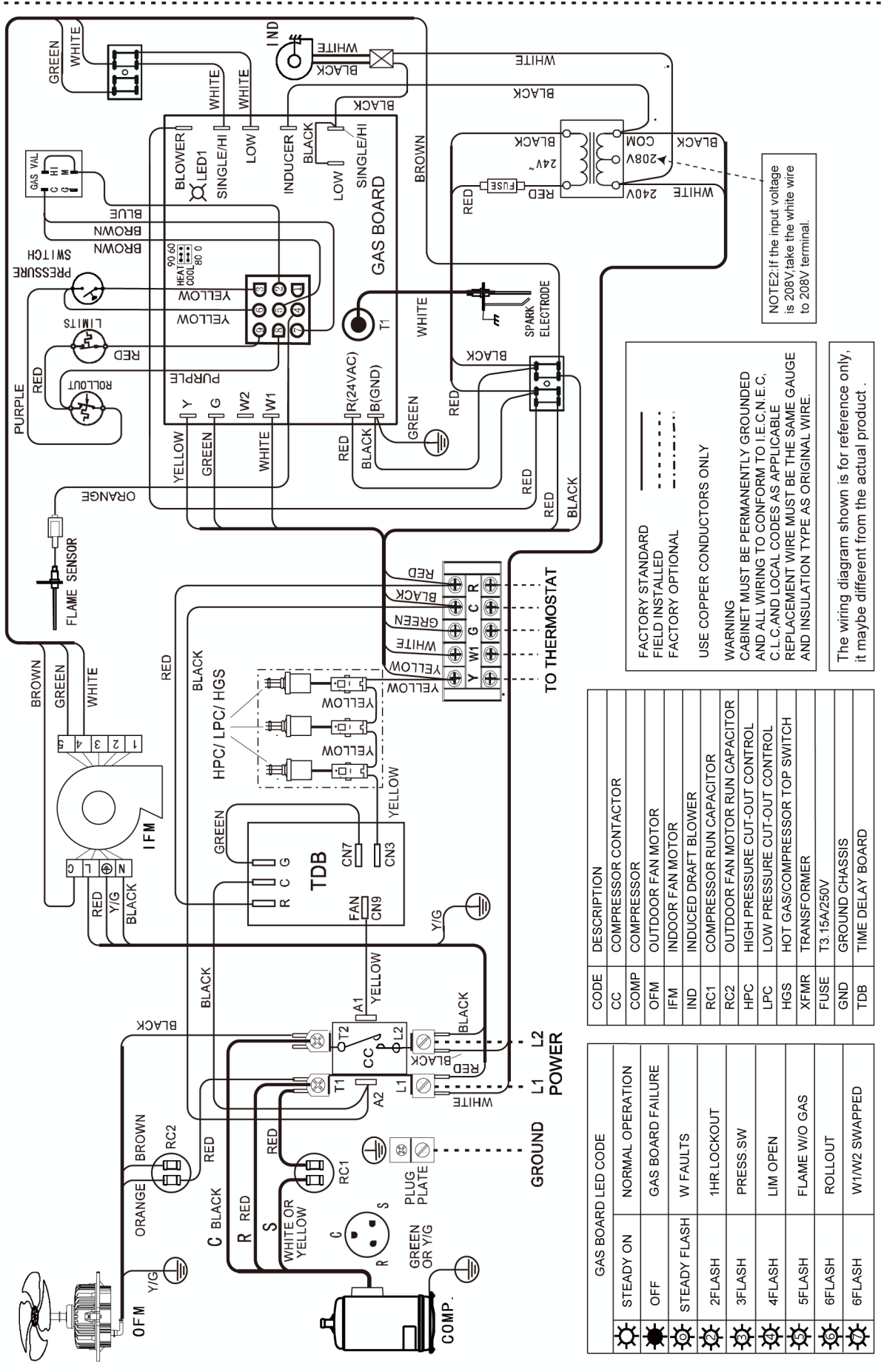


CODE	DESCRIPTION
CC	COMPRESSOR CONTACTOR
COMP	COMPRESSOR
OFM	OUTDOOR FAN MOTOR
IFM	INDOOR FAN MOTOR
IND	INDUCED DRAFT BLOWER
RC1	COMPRESSOR RUN CAPACITOR
RC2	OUTDOOR FAN MOTOR RUN CAPACITOR
HPC	HIGH PRESSURE CUT-OUT CONTROL
LPC	LOW PRESSURE CUT-OUT CONTROL
HGS	HOT GAS/COMPRESSOR TOP SWITCH
XFMR	TRANSFORMER
FUSE	T3.15A/250V
GND	GROUND CHASSIS
TDB	TIME DELAY BOARD

GAS BOARD LED CODE	DESCRIPTION
Steady On	NORMAL OPERATION
Off	GAS BOARD FAILURE
Steady Flash	W FAULTS
2 Flash	1HR LOCKOUT
3 Flash	PRESS SW
4 Flash	LIM OPEN
5 Flash	FLAME W/O GAS
6 Flash	ROLLOUT
6 Flash	W1/W2 SWAPPED

Wiring Diagrams

DGP143690ACG2



NOTE: If the input voltage is 208V, take the white wire to 208V terminal.

WARNING  
CABINET MUST BE PERMANENTLY GROUNDED AND ALL WIRING TO CONFORM TO I.E.C., C.L.C. AND LOCAL CODES AS APPLICABLE. REPLACEMENT WIRE MUST BE THE SAME GAUGE AND INSULATION TYPE AS ORIGINAL WIRE.

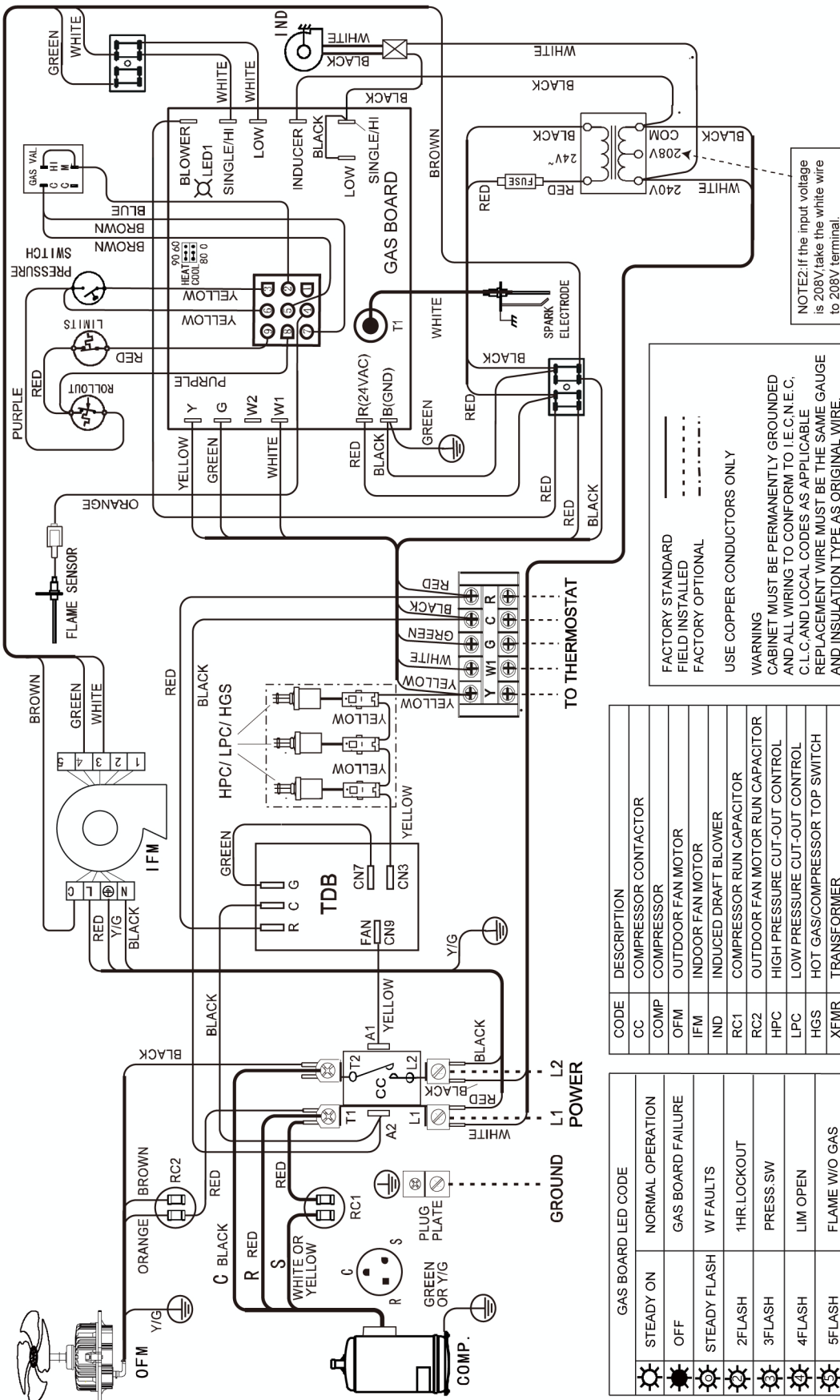
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COMP	COMPRESSOR
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GAS BOARD LED CODE	
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☀	NORMAL OPERATION
☀	OFF
☀	GAS BOARD FAILURE
☀	STEADY FLASH
☀	W FAULTS
☀	2FLASH
☀	1HR.LOCKOUT
☀	3FLASH
☀	PRESS.SW
☀	4FLASH
☀	LIM OPEN
☀	5FLASH
☀	FLAME W/O GAS
☀	6FLASH
☀	ROLL-OUT
☀	6FLASH
☀	W1/W2 SWAPPED

Wiring Diagrams

DGP144290ACL2



NOTE: If the input voltage is 208V, take the white wire to 208V terminal.

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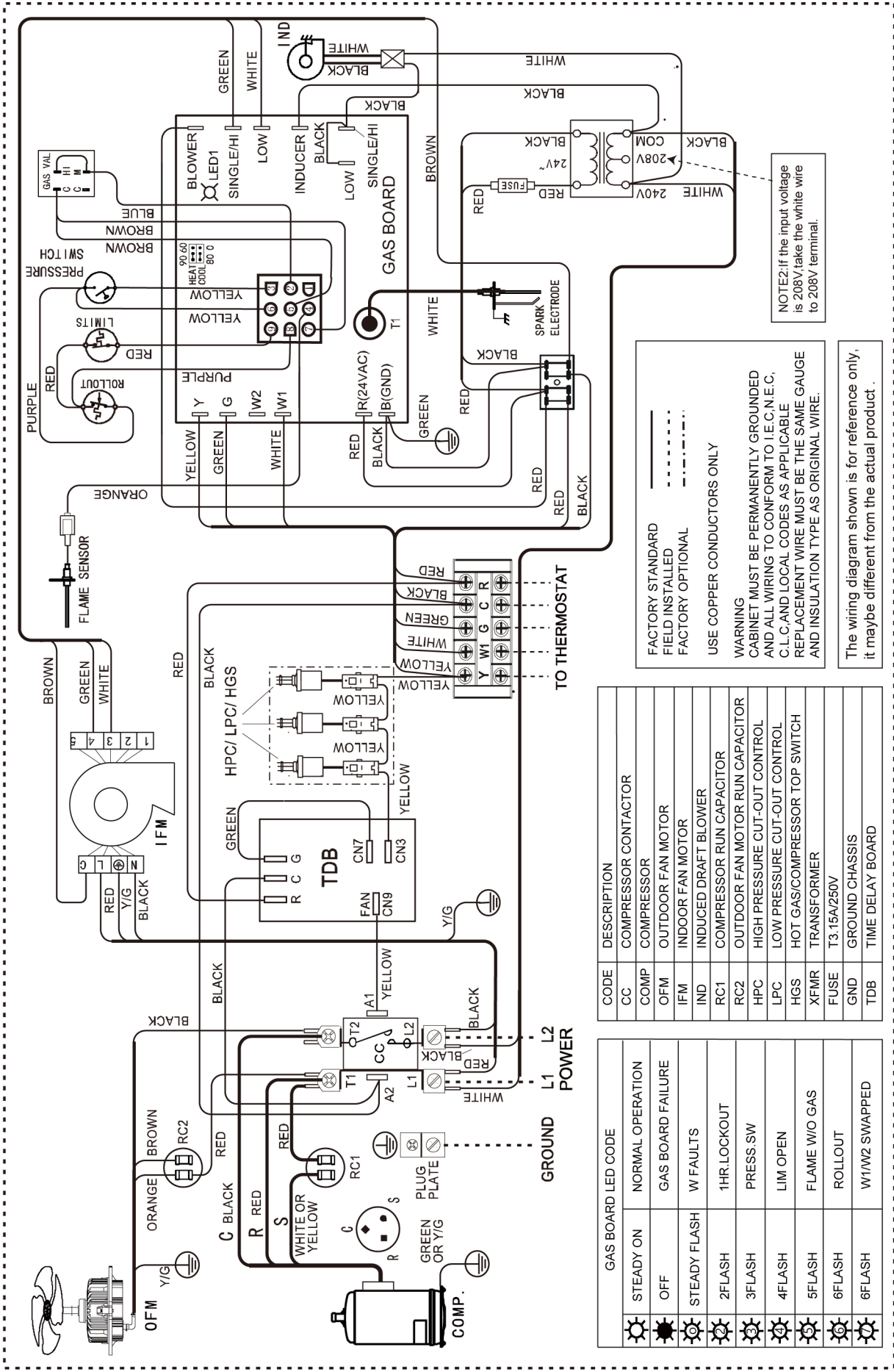
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GAS BOARD LED CODE	
Steady On	NORMAL OPERATION
Off	GAS BOARD FAILURE
Steady Flash	W FAULTS
2 Flash	1HR LOCKOUT
3 Flash	PRESS. SW
4 Flash	LIM OPEN
5 Flash	FLAME W/O GAS
6 Flash	ROLLOUT
6 Flash	W1/W2 SWAPPED

Wiring Diagrams

DGP144890ACL2



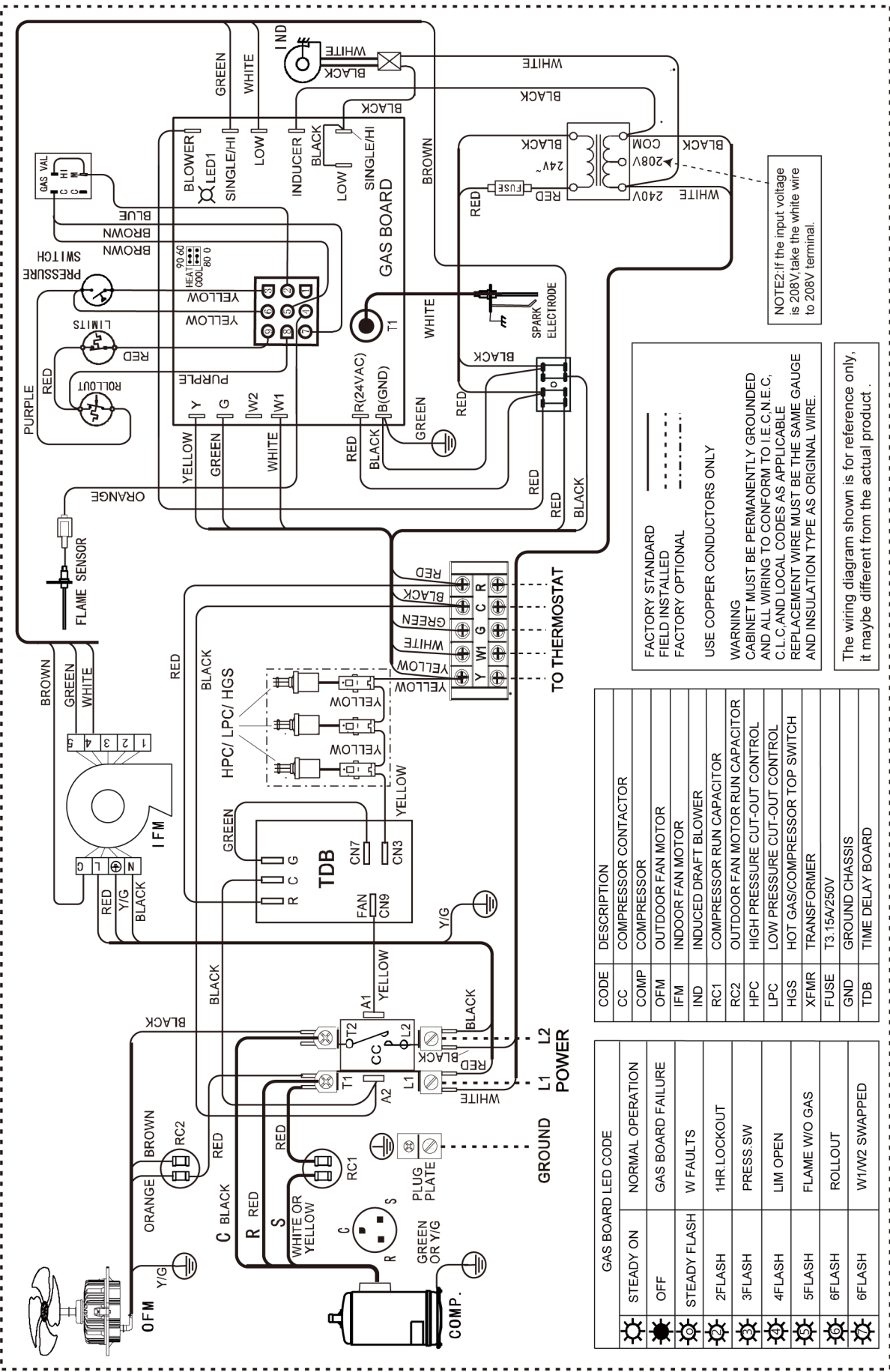
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☀	PRESS.SW
☀	4FLASH
☀	LIM OPEN
☀	5FLASH
☀	FLAME W/O GAS
☀	6FLASH
☀	ROLLOUT
☀	6FLASH
☀	W1/W2 SWAPPED

Wiring Diagrams

DGP1460110ACL2



NOTE: If the input voltage is 208V, take the white wire to 208V terminal.

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 FACTORY OPTIONAL  
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 WARNING  
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GND	GROUND CHASSIS
TDB	TIME DELAY BOARD

GAS BOARD LED CODE	DESCRIPTION
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Off	GAS BOARD FAILURE
Steady Flash	W FAULTS
2 Flash	1HR. LOCKOUT
3 Flash	PRESS. SW
4 Flash	LIM OPEN
5 Flash	FLAME W/O GAS
6 Flash	ROLLOUT
6 Flash	W1/W2 SWAPPED

## 2 INTRODUCTION

A Package Gas Electric Unit is a fully self-contained, combination gas heating/electric cooling unit designed for outdoor installation. All unit sizes have return and discharge openings for both horizontal and downflow configurations, and are factory shipped with all downflow duct openings covered. Units may be installed either on a rooftop or on a cement slab.

In gas heating mode, this unit is designed for a minimum continuous return-air temperature and a maximum continuous return-air temperature. Failure to follow these return-air temperature limits may affect reliability of heat exchangers, motors, and other components.

This booklet contains the installation and operating instructions for your Package Gas Electric Unit. There are some precautions that should be taken to derive maximum satisfaction from it. Improper installation can result in unsatisfactory operation or dangerous conditions. Read this booklet and any instructions packaged with separate equipment required to make up the system prior to installation. Give this booklet to the owner and explain its provisions.

The owner should retain this booklet for future reference.

A Package Gas Electric Unit includes a hermetically-sealed refrigerating system consisting of a compressor, condenser coil, evaporator coil with thermal expansion valve (TXV) or throttle valve, a circulation air blower, a condenser fan, a heat exchanger assembly, gas burner and control assembly, combustion air motor and fan, and all necessary internal electrical wiring. The cooling system of these units is factory-evacuated, charged and performance tested. All units are factory charged with Refrigerant R410A.

The figure shown in this manual is for reference only and may be slightly different from the actual product.

DGPI42460ACG2, DGPI43060ACG2, DGPI43660ACG2, DGPI44290ACL2

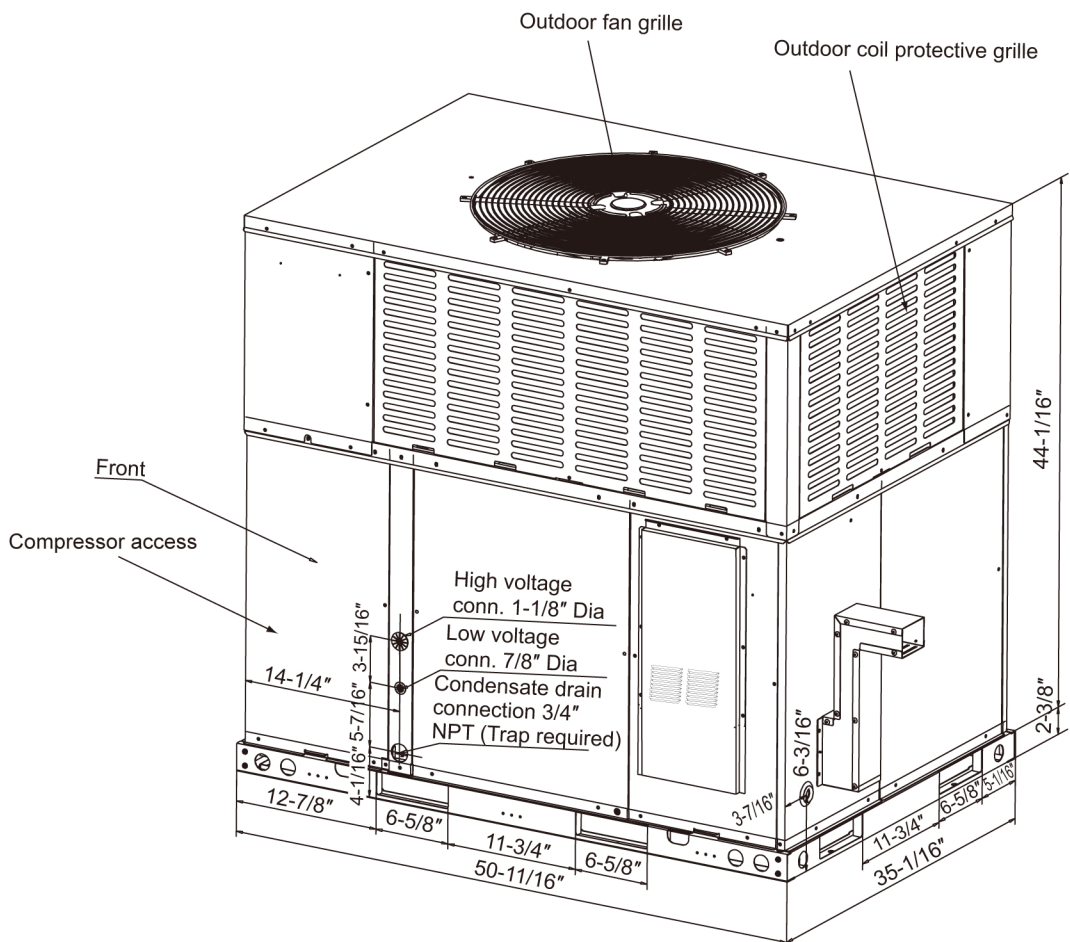


Fig. 2-1 Unit Dimensions

\* The above figure for reference purpose only.

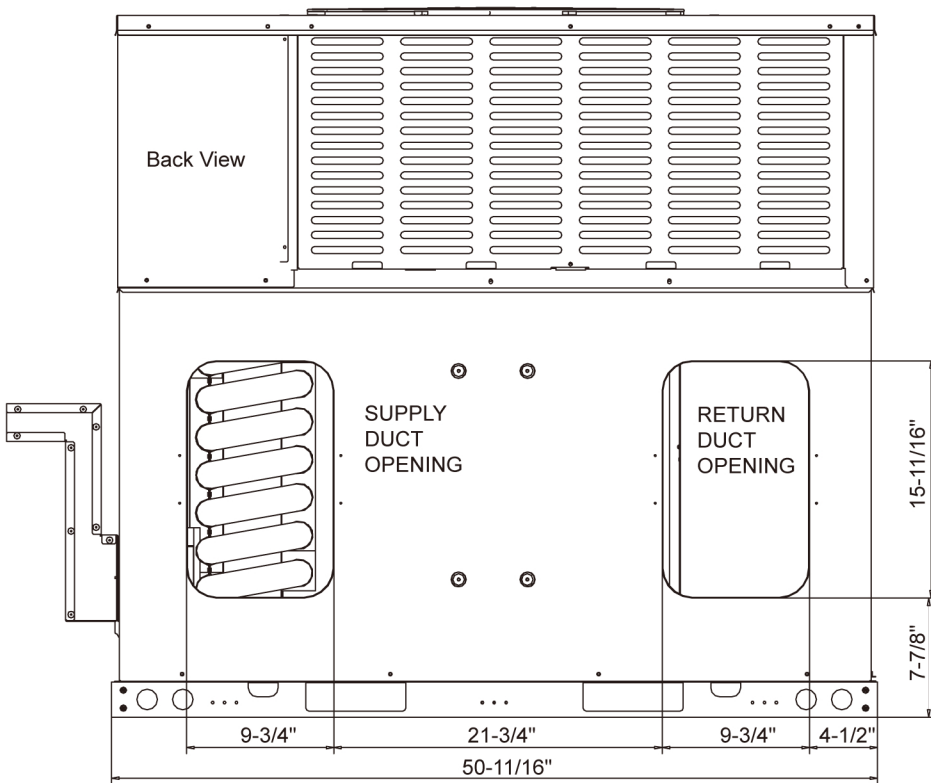
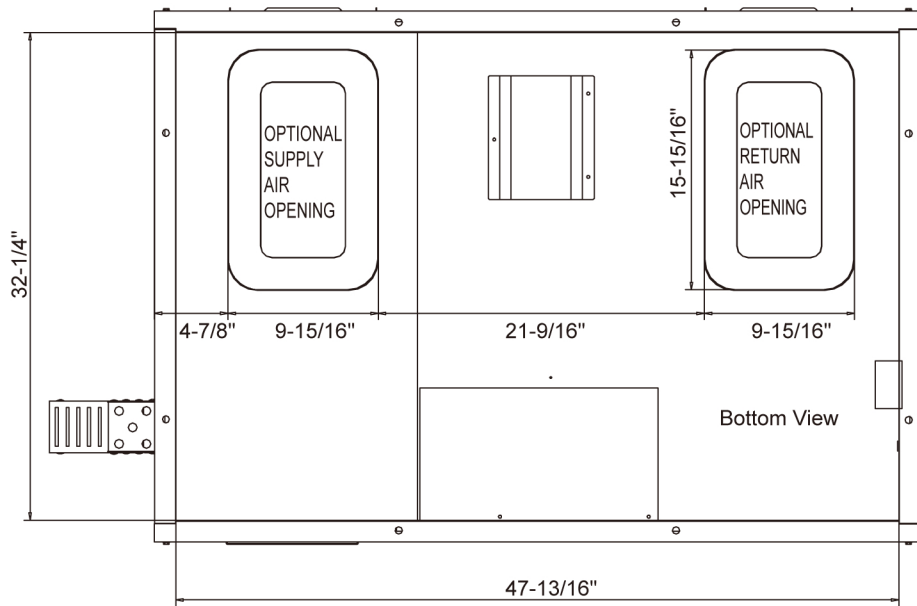


Fig. 2-2 Dimensions Back and Bottom

\* The above figure for reference purpose only.

DGP144890ACL2. DGP1460110ACL2

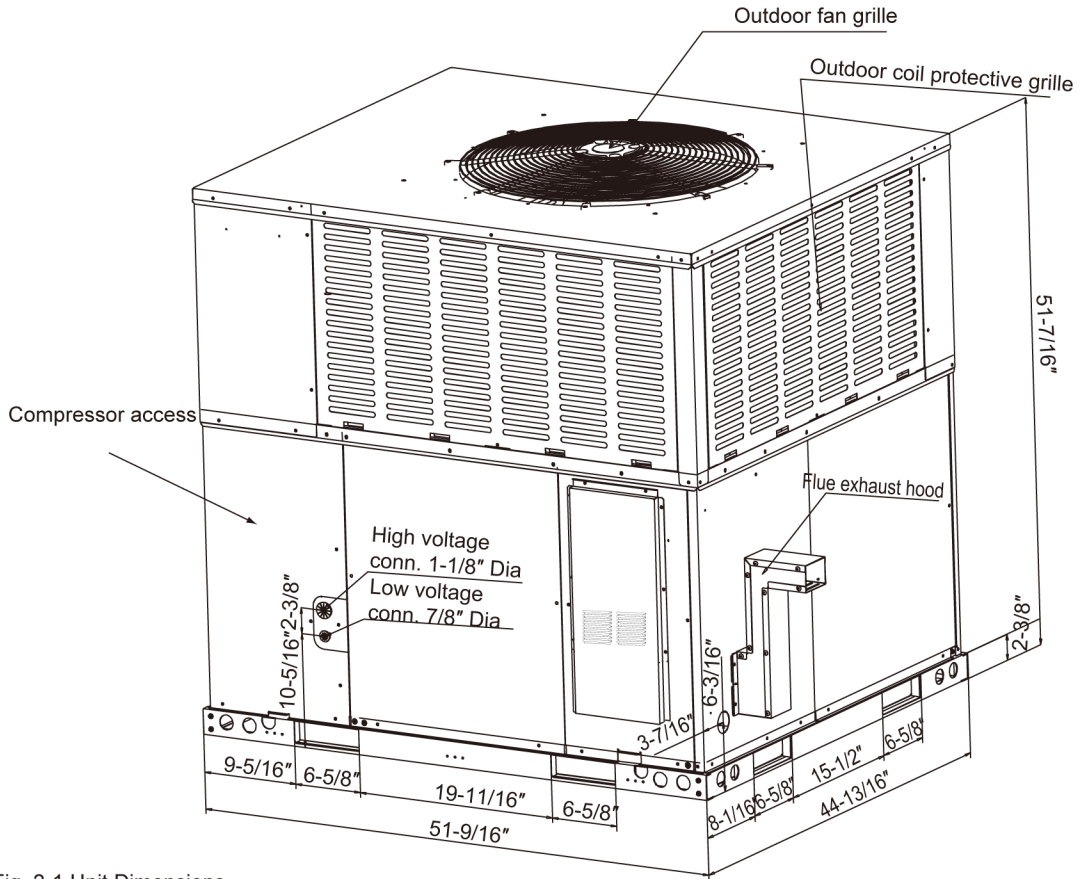
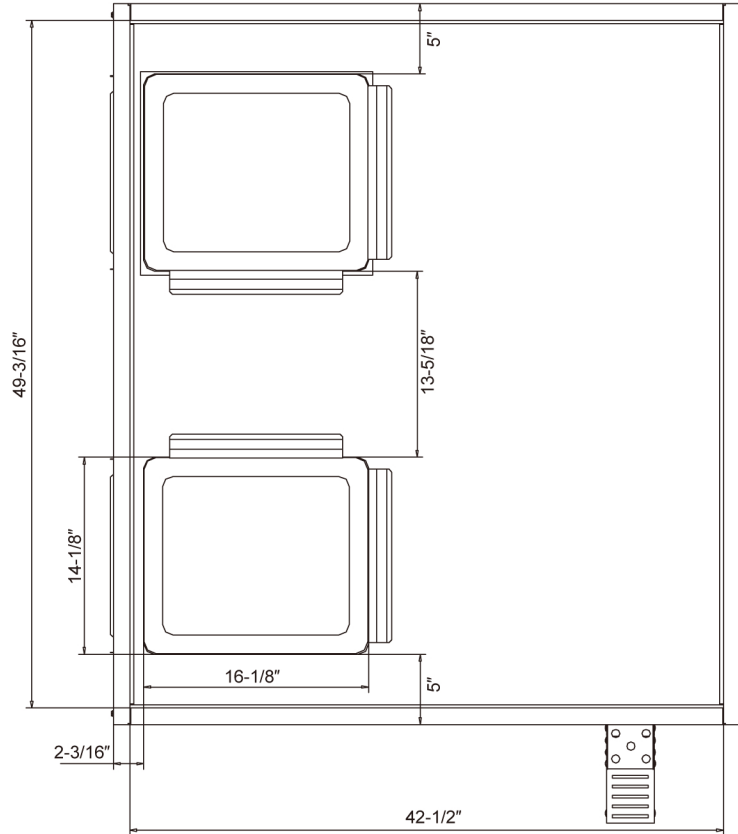


Fig. 2-1 Unit Dimensions



\* The above figure for reference purpose only.



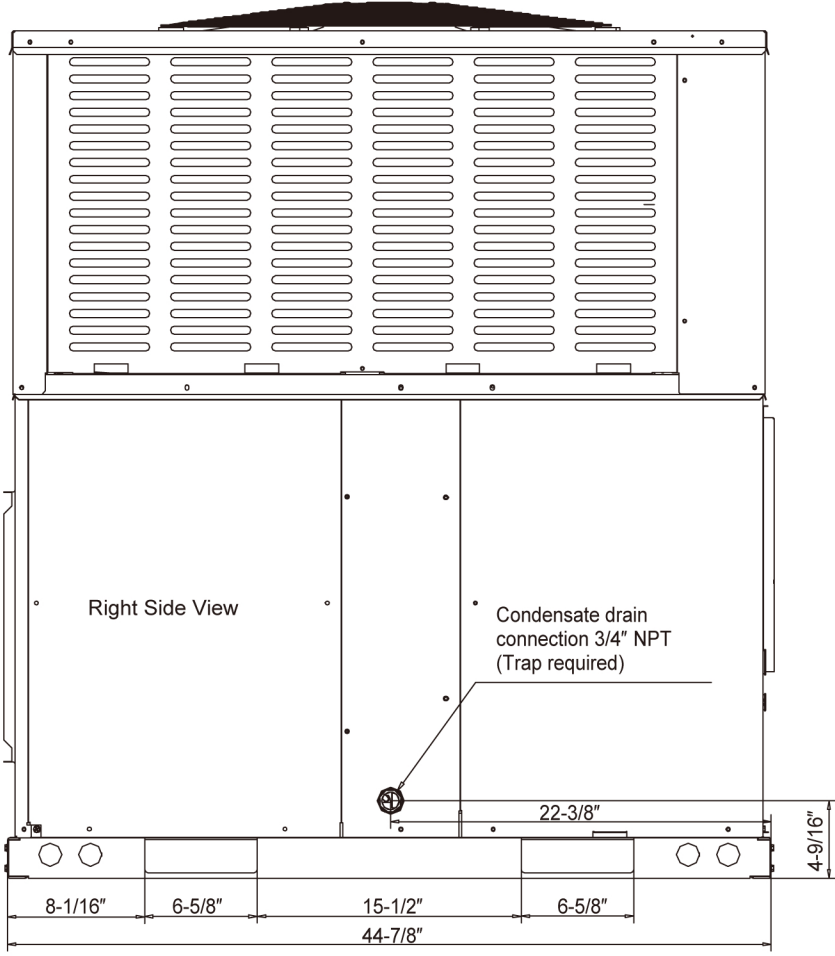
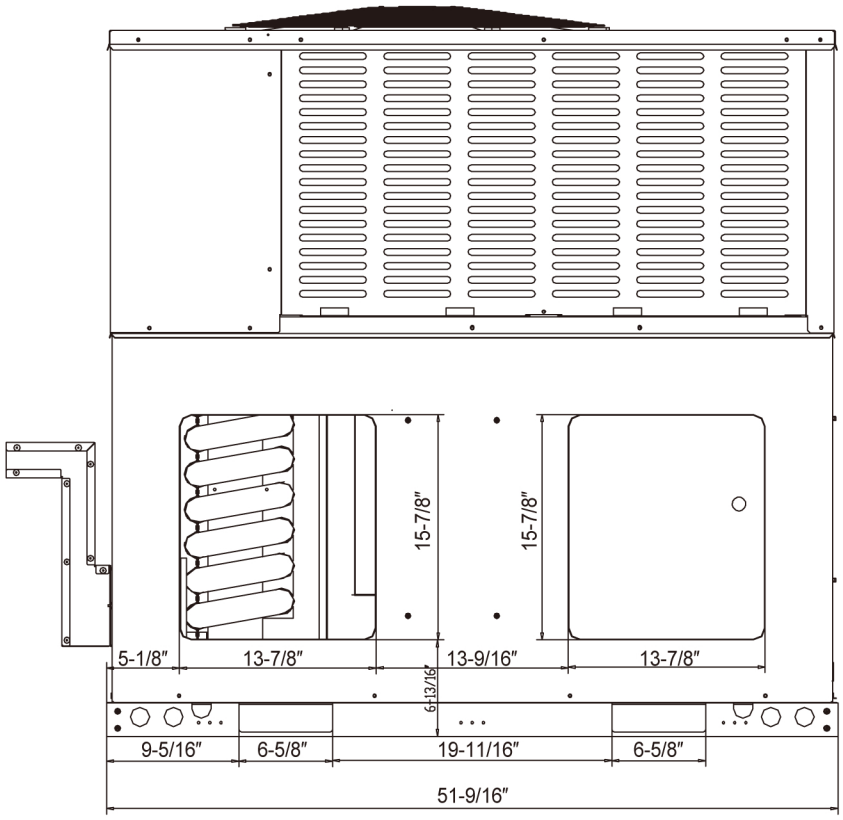


Fig. 2-2 Dimensions Back and Bottom

\* The above figure for reference purpose only.

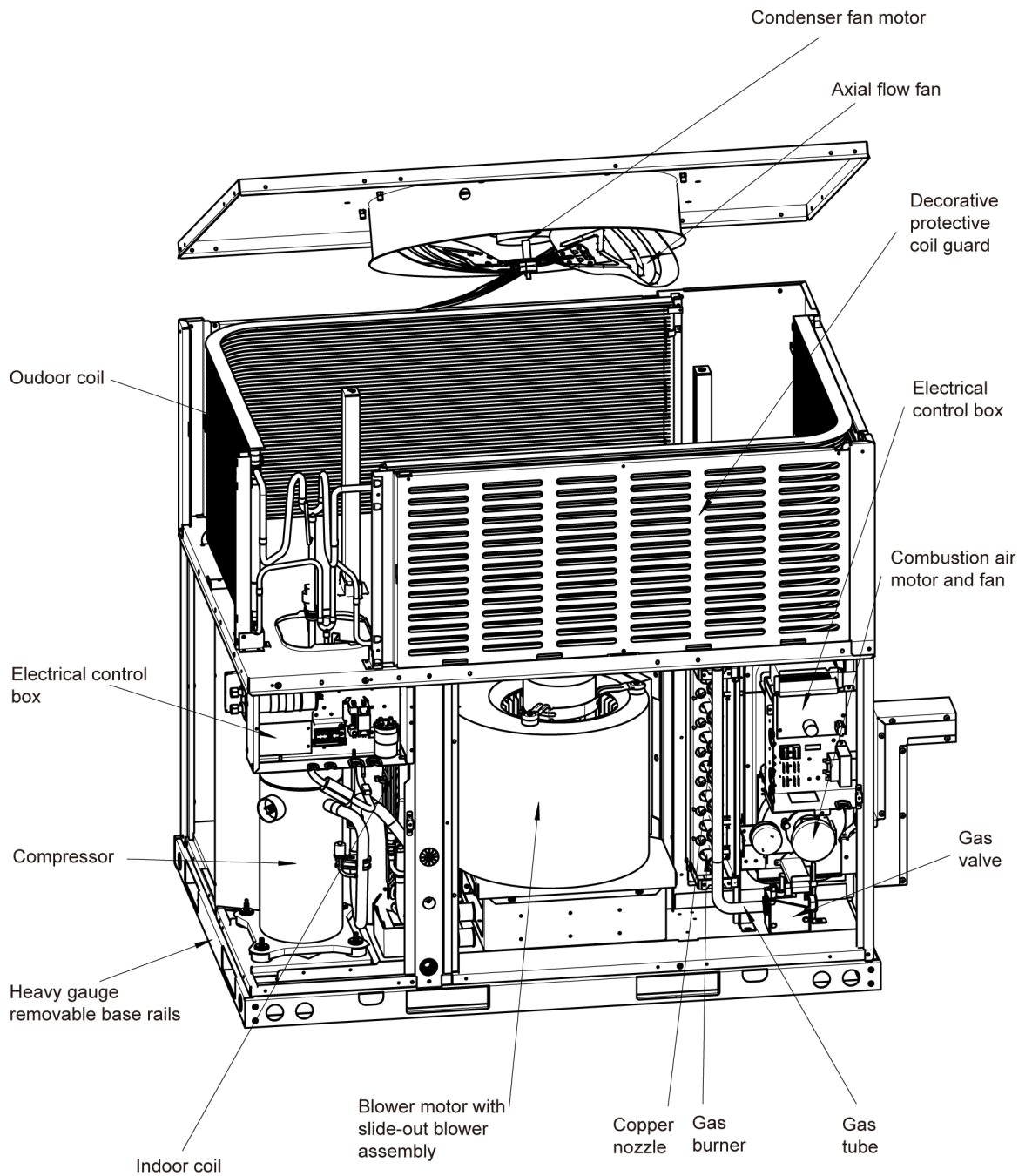


Fig. 2-3 Component Location

\* The above figure for reference purpose only.

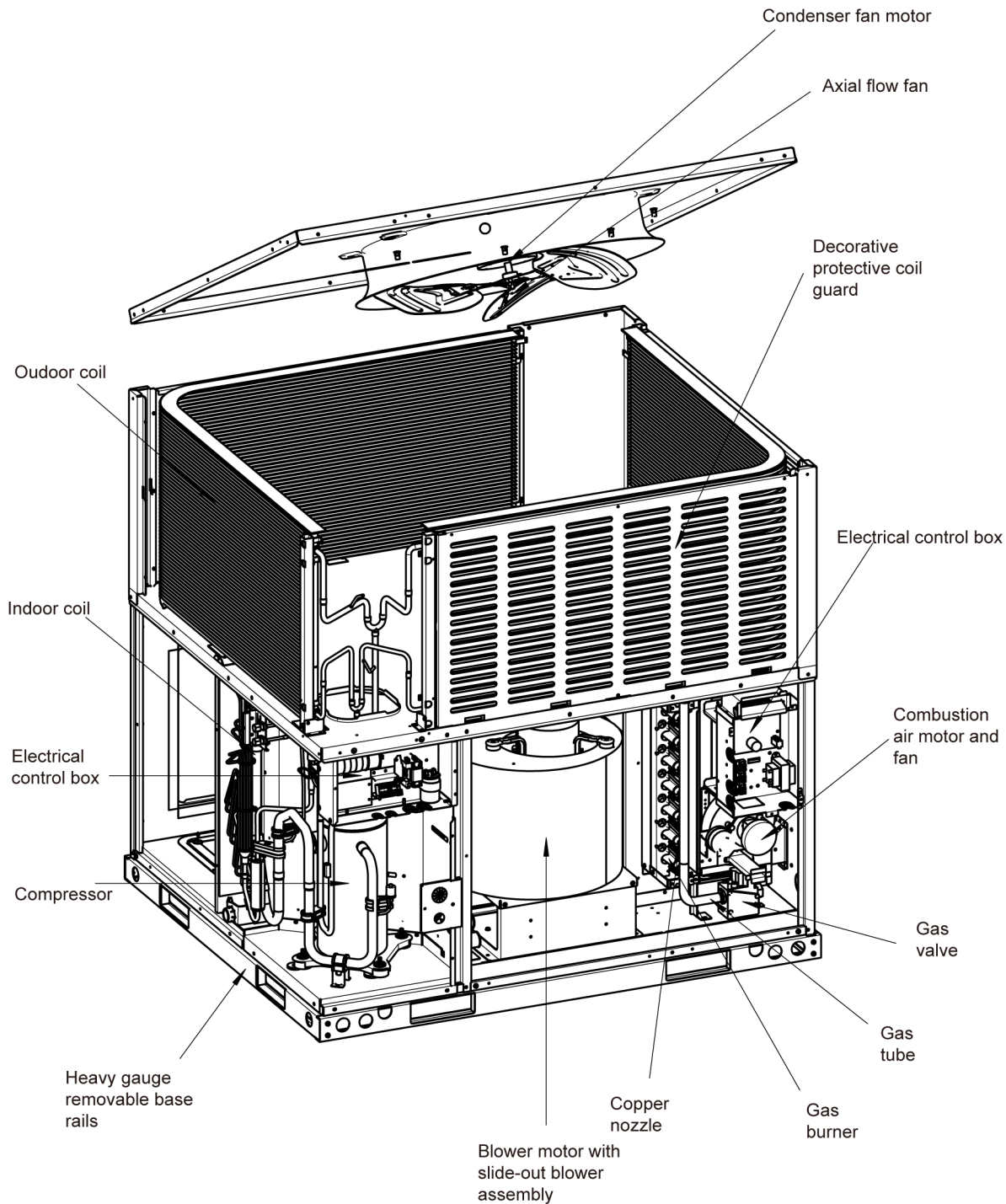


Fig. 2-3 Component Location

\* The above figure for reference purpose only.