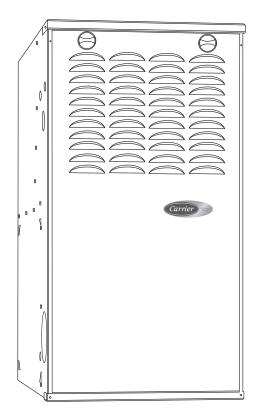
58PHA/PHX PERFORMANCE™ BOOST 80 4-WAY MULTIPOISE

INDUCED-COMBUSTION GAS FURNACE Input Capacities: 45,000 thru 135,000 Btuh Series 110/120



Product Data



A10251

THE CARRIER PERFORMANCE™ BOOST 80 GAS FURNACE

The 58PHA/PHX 4-way Multipoise Gas Furnaces offer deluxe features not found in other single-stage 80% gas furnaces. The ECM motor and Carrier's control logic combine to provide a SEER BOOST of up to 1.5 points.* Carrier's QuieTech $^{\text{TM}}$ noise reduction system makes the Performance $^{\text{TM}}$ Boost 80 an incredibly quiet induced-draft gas furnace.

The gas furnace control system provides a dehumidification mode, a motor speed selection for continuous fan operation selectable at the thermostat, and fault code storage in the event of power outages. Applications are easy with 4-way multipoise design, through-the-furnace downflow venting, 13 different venting options, and a design for easy service access. An inner blower door is provided for tighter sealing in sensitive applications. The

58PHA/PHX furnaces are approved for use with natural or propane gas, and the 58PHX is approved for use in Low NOx Air Quality Management Districts.

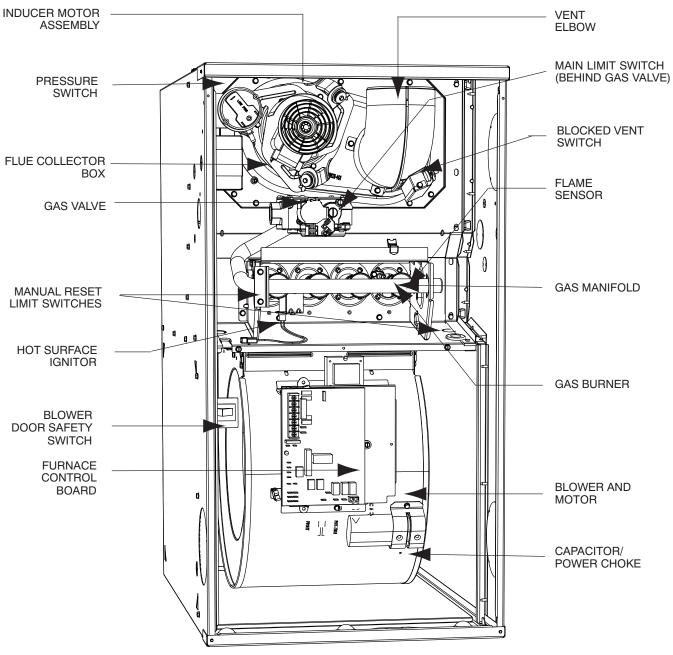
STANDARD FEATURES

- ECM Blower Motor included
- QuieTech™ noise reduction system
- SmartEvap[™]—Humidity control when using a Thermidistat[™] Control
- ComfortFan [™]—adjustable constant fan speed from the thermostat
- Microprocessor based control center
 Enhanced diagnostics with LED and reflective sight glass.

 Stores fault codes during power outages
 Adjustable heating air temperature rise
 Adjustable cooling airflow
 Dehumidification selection for summer-time cooling
- 4-way Multipoise furnace, 13 vent applications
- Compact design only 33-1/3 in. (847 mm) tall
- Power Heat SiN™ Igniter
- Draft safeguard switch to ensure proper furnace venting
- Insulated blower compartment
- · Inner door for tighter sealing
- Certified to leak 2 percent or less of its nominal air conditioning CFM delivered when pressurized to 1-In.
 Water Gauge with all present air inlets and air outlet sealed.
- HYBRID HEAT® Dual Fuel System compatible
- All models are chimney friendly when used with accessory vent kit
- Residential installations eligible for consumer financing through the Retail Credit Program

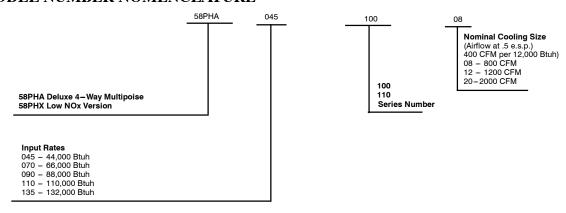
^{*}as compared to the Air Conditioning Heating and Refrigeration Institute's standard coil - only rating when paired with selected Carrier evaporator coils.

FURNACE COMPONENTS

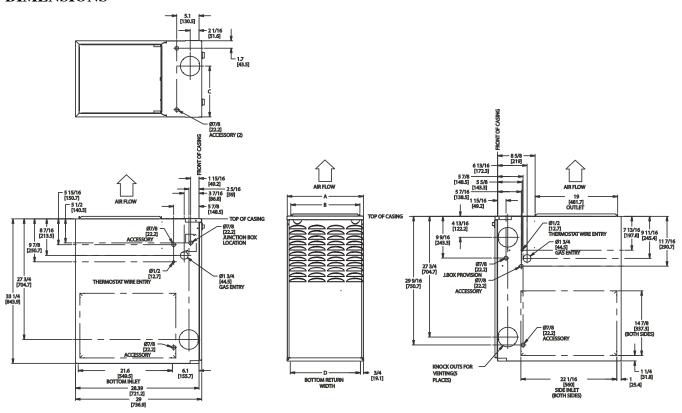


NOTE: The 58PHA/PHX Furnaces are factory shipped for use with natural gas. These furnaces can be field-converted for propane gas with a factory-authorized and listed accessory conversion kit.

MODEL NUMBER NOMENCLATURE



DIMENSIONS



NOTES:

- 1. Two additional 7/8-in. (22 mm) diameter holes are located in the top plate.
- 2. Minimum return—air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
- 3. Minimum return air opening at furnace.
 - a. For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
 - b. For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
 c. For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560mm) rectangle.
 - d. For airflow requirements above 1800 CFM, see Air Delivery table in Product Data literature for specific use of single side inlets. The use of both side inlets, a combination of 1 side and the bottom, or the bottom only will ensure adequate return air openings for airflow requirements above 1800 CFM.

FURNACE SIZE	A CABINET WIDTH)	B OUTLET WIDTH	C TOP AND BOTTOM FLUE COLLAR	D BOTTOM INLET WIDTH	VENT CONNECTION SIZE	SHIP WT. LB. (KG)	ACCESSORY FILTER MEDIA CABINET SIZE IN. (MM)
045-08	14-3/16 (360)	12-9/16 (319)	9-5/16 (237)	12-11/16 (322)	4 (102)	104 (47)	16 (406)
070-16	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16 (406)	4 (102)	126 (57)	16 (406)
090-16	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	140 (64)	20 (508)
110-20	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	152 (69)	20 (508)
135-20	24-1/2 (622)	22-7/8 (581)	15-1/16 (383)	23 (584)	4 (102)*	163 (74)	24 (610)

^{*135} size furnace requires a 5 or 6-in. (127 or 152 mm) vent. Use a vent adapter between furnace and vent stack. See Installation Instructions for complete installation requirements.

SPECIFICATIONS

UNIT SIZE	04508	070-16	090-16	110-20	13520				
RATINGS AND PERFORMANCE									
Input Btuh*	58PHX Upflow; all 58PHA	44,000	66,000	88,000	110,000	132,000			
Nonweatherized ICS	58PHX Downflow/Horizontal	42,000	63,000	84,000	105,000	126,000			
Output Capacity (Btuh)†	58PHX Upflow; all 58PHA	36,000	53,000	72,000	90.000	107.000			
Nonweatherized ICS	58PHX Downflow/Horizontal	34,000	51,000	69,000	86,000	102,000			
AFUE†		80.0	80.0	80.0	80.0	80.0			
Certified Temperature Rise Range - °	F (°C)	30-60 (17-33)	25-55 (14-31)	35-65 (19-36)	30-60 (17-33)	40-70 (22-39)			
Certified External Static Pressure	Heat/Cool	0.10/0.50	0.12/0.50	0.15/0.50	0.20/0.50	0.20/0.50			
A: () OFM	Heating	735	1230	1345	1890	1865			
Airflow CFM‡	Cooling	1035	1460	1665	2040	2070			
ELECTRICAL									
Unit Volts-Hertz-Phase				115-60-1					
Operating Voltage Range	Min-Max			104-127					
Maximum Unit Amps		8.1	10.8	11.4	14.2	14.2			
Maximum Wire Length (Measure one	way in Ft (M)	34 (10)	26 (8)	25 (7)	31 (9)	31 (9)			
Minimum Wire Size		14 12							
Maximum Fuse or Ckt Bkr Size (Amps		15 20							
Transformer (24v)		40va							
External Control		12va							
Power Available		35va							
Air Conditioning Blower Relay			Standard						
CONTROLS									
Limit Control				SPST					
Heating Blower Control			Solid-State Time Operation						
Burners (Monoport)		2	3	4	5	6			
Gas Connection Size			1/2-in. NPT						
GAS CONTROLS									
Gas Valve (Redundant)	Mfr.		White-Rodgers						
	Min. inlet pressure (In. W.C.)		4.5 (Natural Gas)						
	13.6 (Natural Gas)								
Ignition Device		Hot Surface							
Factory-installed orifice			Size 43						
BLOWER DATA									
Direct-Drive Motor HP (ECM)	1/2	3/4	3/4	1	1				
Motor Full Load Amps	6.8	8.8	8.8	11.5	11.5				
RPM (Nominal)-Speeds		1050-5							
Blower Wheel Diameter x Width - In.	10 x 6 (254 x 152)	11 x 8 (279 x 203)	10 x 10 (254 x 254)	11 x 11 (279 x 279)	11 x 11 (279 x 279				

^{*} Gas input ratings are certified for elevations to 2000 ft. (610 M). In USA, for elevations above 2000 ft. (610 M), reduce ratings 4 percent for each 1000 ft. (305 M) above sea level. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1—2012 Table F.4 or furnace installation instructions.

Capacity in accordance with U.S. Government DOE test procedures.

[‡] Airflow shown is for bottom only return-air supply for the as-shipped speed tap. For air delivery above 1800 CFM, see Air Delivery table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7 percent may occur when using the factory-specified 4-5/16 in. wide, high efficiency media filter.

^{**} Time-delay type is recommended.

ICS Isolated Combustion System

CARRIER ACCESSORIES

DESCRIPTION	PART NO.	045-08	070-16	090-16	110-20	135-20		
	FILCABXL0016	X	Х					
Media Filter Cabinet	FILCABXL0020			Х	Х			
	FILCABXL0024					Х		
	FILCCCAR0016	X	Х					
Cartridge Media Filter	FILCCCAR0020			X	Х			
	FILCCCAR0024					Х		
	EXPXXUNV0016	X	Х					
EZ Flex Media Filter with End Caps	EXPXXUNV0020			Х	Х			
	EXPXXUNV0024					Х		
	EXPXXFIL0016	X	Х					
Replacement EZ Flex Filter Media	EXPXXFIL0020			Х	Х			
	EXPXXFIL0024					Х		
	KGBFR0401B14	X						
Filton Book Bottom Botom	KGBFR0501B17		Х					
Filter Rack Bottom Return	KGBFR0601B21			Х	Х			
	KGBFR0701B24					Х		
External Side Return Filter Rack	KGAFR0201ALL	Χ	Х	Х	Х	Х		
	KGAWF1306UFR †	Χ	Х					
Unframed Filter 3/4-in. (19 mm)	KGAWF1406UFR			X	Х			
	KGAWF1506UFR					Х		
Flue Extension	KGAFE0112UPH	X	Х	Х	Х	Х		
Combustible Floor Base	KGASB0201ALL	X	Х	Х	Х	Х		
Downflow Vent Guard	KGBVG0101DFG	X	Х	X	Х	Х		
Vent Extension Kit	KGAVE0101DNH	Х	Х	X	Х	Х		
Chimney Adapter Kit	KGACA02014FC	X	Х	X	Х			
Chimney Adapter Kit	KGACA02015FC					Х		
Natural–to–Propane Conversion Kit*	KGBNP50011SP	Х	х	х	х	х		
Propane – to – Natural Conversion Kit*	KGBPN42011SP	Х	Х	х	Х	х		
Label Kit	KGALB0301KIT	X	Х	X	Х	Х		
	LH32DB207		1	1	I			
	LH32DB202							
	LH32DB200	See Installation Instructions for model, altitude, and heat value usages.						
	LH32DB205							
	LH32DB208							
One Ouiting	LH32DB078							
Gas Orifice	LH32DB076	See installa	uon instructions	i ior model, altitu	iue, and neat va	iue usages.		
	LH32DB203							
	LH32DB201							
	LH32DB206							
	LH32DB209							
	LH32DB210							

^{*}Factory—authorized and field—installed. Gas conversion kits are CSA (AGA/CGA) recognized.

[†]Suitable for Side Return Filter Rack

X - Accessory

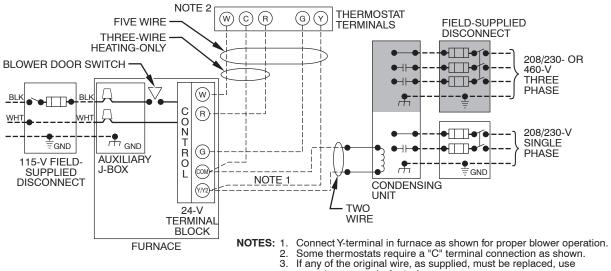
S - Standard

CARRIER ACCESSORIES

	ACCESSORIES
ELECTRONIC AIR CLEANER (EAC)	Model EACB
AIR PURIFIER	Models GAPAAXCC1625, GAPAAXCC2025
MECHANICAL AIR CLEANER	Models EZXCAB, FILCAB
HUMIDIFIER	Model HUM
HEAT RECOVERY VENTILATOR	Model HRV
ENERGY RECOVERY VENTILATOR	Model ERV
UV LIGHTS	Model UVL
	For use with 1-speed Air Conditioner - deg. F/C, Auto Changeover - TP-NAC, TC-NAC
THERMOSTAT -	For use with 1-speed Heat Pump - deg. F/C, Auto Changeover - TP-NHP, TC-NHP*
NON-	For use with 2-speed Air Conditioner - deg. F/C, Auto Changeover - TP-NRH*
PROGRAMMABLE	For use with multi-use / stage configurations - deg. F/C, Auto Changeover/Temperature and Humidity Control - TP-PRH†
	For use with 1-speed Air Conditioner - deg. F/C, Auto Changeover, 7-Day Programmable - TP-PAC
	For use with 1-speed Heat Pump - deg. F/C, Auto Changeover, 7-Day Programmable - TP-PHP*
THERMOSTAT -	For use with 2-speed Air Conditioner - deg. F/C, Auto Changeover, 7-Day Programmable - TP-PRH*
PROGRAMMABLE	For use with 1-speed Air Conditioner - deg. F/C, 5-2 Day Programmable - TP-PAC
	For use with multi-stage applications - deg. F/C, Auto Changeover, 7-Day Programmable - TC-PHP‡
	For multi-use / stage configurations - deg. F/C, Auto Changeover, 7-Day Programmable/Temperature and Humidity Control -TP-PRH†
	Comfort Series™ Three-Zone Kit - ZONECC3ZAC01, ZONECC3ZHP01
ZONING CONTROL	2-Performance™ Series ComfortZone™ Zoning/Temperature and Humidity Control – ZONECC2KIT01-B
ZUNING CONTROL	4-Performance™ Series ComfortZone™ Zoning/Temperature and Humidity Control – ZONECC4KIT01-B
	8-Performance™ Series ComfortZone™ Zoning/Temperature and Humidity Control – ZONECC8KIT01-B

TYPICAL WIRING SCHEMATIC



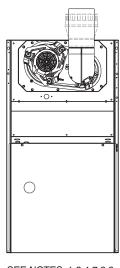


- same type or equivalent wire.

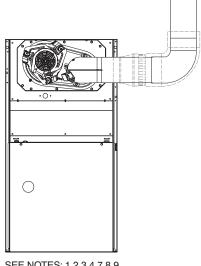
†Thermidistat™ Control control can be configured for multiple use and staging. It must be configured for each specific application.

^{*}Model HP and 2S thermostat must be field converted to air conditioner operation.

[‡]Dual Fuel thermostat is used with furnace and heat pump application.

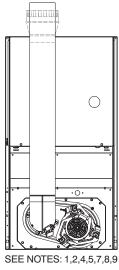


SEE NOTES: 1,2,4,7,8,9 UPFLOW A02058



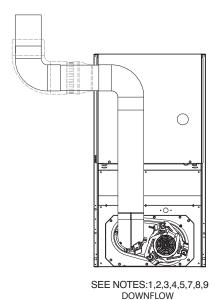
SEE NOTES: 1,2,3,4,7,8,9 **UPFLOW**

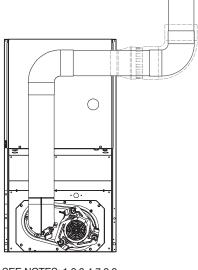




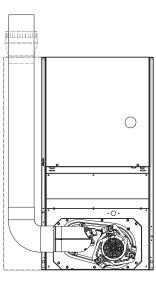
DOWNFLOW

A02061







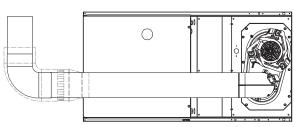


SEE NOTES: 1,2,4,5,6,7,8,9 DOWNFLOW

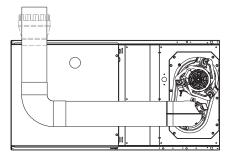
Venting Notes

- 1. For common vent, vent connector sizing and vent material: United States, latest edition of the National Fuel Gas Code (NFGC), NFPA54/ANSI Z223.1.
- 2. Immediately increase to 5-in. (127 mm) vent connector outside furnace casing when 5-in. (127 mm) vent connector required, refer to Note 1.
- 3. Side outlet vent for upflow and downflow installations must use Type B vent immediately after exiting the furnace, except when Downflow Vent Guard is used in downflow position.
- 4. Type B vent where required, refer to Note 1.

- 5. 4-in. (102 mm) single wall vent must be used inside furnace casing and the Downflow Vent Guard Kit.
- 6. Accessory Downflow Vent Guard Kit required in downflow installations with bottom vent configuration.
- 7. Chimney Adapter Kit required for exterior masonry chimney applications. Refer to Chimney Adapter Kits for sizing and complete application details.
- 8. Secure vent connector to furnace elbow with (2) corrosion-resistant sheet metal screws, space approximately 180° apart.
- 9. Secure all other single wall vent connector joints with (3) corrosion-resistant screws spaced approximately 120° apart. Secure Type B vent connectors per vent connector manufacturer's recommendations.

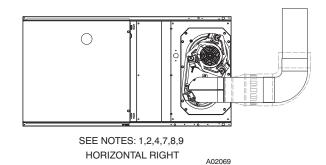


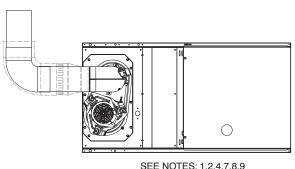
SEE NOTES: 1,2,4,5,7,8,9 HORIZONTAL RIGHT A02068



SEE NOTES: 1,2,4,5,7,8,9 HORIZONTAL RIGHT

A02070

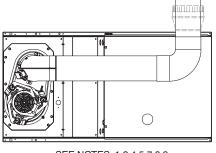




SEE NOTES: 1,2,4,7,8,9 HORIZONTAL LEFT

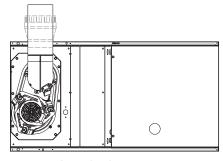
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A02066

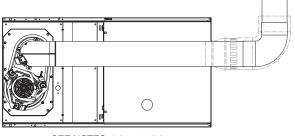


SEE NOTES: 1,2,4,5,7,8,9 HORIZONTAL LEFT

A02065



SEE NOTES: 1,2,4,5,7,8,9 HORIZONTAL LEFT



SEE NOTES: 1,2,4,5,7,8,9 HORIZONTAL LEFT

AIR DELIVERY - CFM (WITH FILTER)*

UNIT SIZE	COLOR	SPEED	EXTERNAL STATIC PRESSURE (In. W.C.)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
	Gray	5	1185	1145	1115	1075	1035	980	905	820	720	580
	Yellow	4	920	880	835	800	755	720	680	645	605	540
045-08	Blue	3	735	685	625	585	530	490	435	395	345	295
	Orange	2	820	765	725	670	630	580	545	490	455	405
	Red	1	650	595	535	490	430	390	330	280	235	
	Gray	5	1625	1585	1535	1495	1460	1415	1365	1295	1220	1125
	Yellow	4	1405	1360	1320	1280	1240	1195	1155	1115	1070	1030
070-16	Blue	3	1240	1200	1155	1110	1065	1020	975	935	895	850
	Orange	2	1190	1140	1095	1050	1000	955	915	870	830	790
	Red	1	1035	985	930	885	835	785	745	695	650	600
090-16	Gray	5	1845	1800	1755	1710	1665	1595	1500	1400	1275	1105
	Yellow	4	1590	1545	1500	1455	1410	1365	1315	1270	1180	1000
	Blue	3	1365	1320	1270	1215	1170	1125	1070	1025	955	900
	Orange	2	1225	1160	1110	1060	1010	950	895	830	770	710
	Red	1	1100	1030	960	875	805	730	645	570	505	425
	Gray	5	2255	2205	2150	2100	2040	1985	1920	1835	1735	1615
	Yellow	4	1600	1525	1465	1400	1335	1275	1210	1150	1080	1015
110-20	Blue	3	1945	1890	1830	1770	1715	1655	1600	1545	1480	1430
	Orange	2	1420	1340	1280	1200	1140	1065	1005	925	865	790
	Red	1	1280	1205	1140	1055	990	910	840	760	695	630
135–20	Gray	5	2295	2240	2185	2125	2070	2005	1925	1805	1670	1545
	Yellow	4	1725	1660	1605	1545	1460	1395	1340	1285	1230	1170
	Blue	3	1910	1865	1800	1745	1685	1610	1545	1485	1435	1380
	Orange	2	1630	1575	1510	1435	1365	1300	1245	1185	1130	1065
	Red	1	1430	1355	1285	1200	1125	1075	1015	945	855	800

^{*}A filter is required for each return—air inlet. Airflow performance included 3/4—in. (19 mm) washable filter media such as contained in factory—authorized accessory filter rack. To determine airflow performance without this filter, assume an additional 0.1 ln. W.C. available external static pressure.

⁻⁻ Indicates unstable operating conditions.

MARNING

FIRE, EXPLOSION, ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance, or installation can cause serious injury or death.

Read and follow instructions and precautions in User's Information Manual provided with this furnace. Installation and service must be performed by a qualified service agency or the gas supplier.

A CAUTION

Check entire gas assembly for leaks after lighting this appliance.

INSTALLATION

- This furnace must be installed in accordance with the manufacturer's instructions and local codes. In the absence of local codes, follow the National Fuel Gas Code ANSI Z223.1 / NFPA54 or CSA B-149. 1 Gas Installation Code.
- This furnace must be installed so there are provisions for combustion and ventilation air. See manufacturer's installation information provided with this appliance.

OPERATION

This furnace is equipped with manual reset limit switch(es) in burner compartment to protect against overheat conditions that can result from inadequate combustion air supply or blocked vent conditions.

- 1. Do not bypass limit switches.
- If a limit opens, call a quallified serviceman to correct the condition and reset limit switch.

INSTALLATION

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

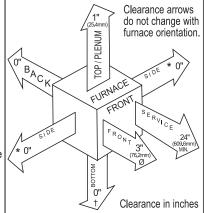
This forced air furnace is equipped for use with natural gas at altitudes 0 - 10,000 ft (0 - 3,050m).

An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.

This furnace is for indoor installation in a building constructed on site.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance as indicated by the diagram from combustible material.

This furnace may be used with a Type B-1 Vent and may be vented in common with other gas fired appliances. This furnace is approved for UPFLOW, DOWNFLOW, and HORIZONTAL installations.



Vent Clearance to combustibles:

For Single Wall vents 6 inches (6 po). For Type B-1 vent type 1 inch (1 po).

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

DOWNFLOW POSITIONS:

- † Installation on non-combustible floors only.
 - For Installation on combustible flooring only when installed on special base, Part No. KGASB0201ALL or NAHA01101SB, Coil Assembly, Part No. CAR, CAP, CNPV, CNRV, END4X, ENW4X, WENC, WTNC, WENW OR WTNW.
- \varnothing 18 inches front clearance required for alcove.
- Indicates supply or return sides when furnace is in the horizontal position. Line contact only permissible between lines formed by intersections of the Top and two Sides of the furnace jacket, and building joists, studs or framing.



336996-101 REV. C

A10269



ISO 9001



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



Always Ask For FACTORY AUTHORIZED PARTS

58PHA

GUIDE SPECIFICATIONS

Gas Furnace 58PHA/PHX

GENERAL

System Description

Furnish a ______ fixed capacity gas-fired furnace for use with natural gas or propane (factory authorized conversion kit required for propane); furnish cold air return plenum; furnish external accessory media cabinet for use with accessory media filter or standard filter.

Quality Assurance

Unit will be designed, tested and constructed to the current ANSI Z 21.47/CSA 2.3 design standard for gas-fired central furnaces.

Unit will be 3rd party certified by CSA to the current ANSI Z 21.47/CSA 2.3 design standard for gas-fired central furnaces.

Unit will carry the CSA Blue Star® label.

Unit efficiency testing will be performed per the current DOE test procedure as listed in the Federal Register.

Unit will be certified for capacity and efficiency and listed in the latest AHRI Consumer's Directory of Certified Efficiency Ratings.

Unit will carry the current Federal Trade Commission Energy Guide efficiency label.

Delivery, Storage and Handling

Unit shall be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

U.S. only. Warranty certificate available upon request.

PRODUCTS

Equipment

Components shall include: slow-opening gas valve to reduce ignition noise, regulate gas flow, with electric switch gas shut-off; flame proving sensor, hot surface igniter, pressure switch assembly; flame rollout switch, blower and inducer assembly, 40va transformer; low-voltage (heating) (heating/cooling) thermostat.

Blower Wheel and Blower Motor

Galvanized blower wheel shall be centrifugal type, statically and dynamically balanced. Blower motor of ECM type shall be permanently lubricated with sealed bearings, of _____hp, and shall be multiple-speed direct drive. shall be soft mounted to the blower scroll to reduce vibration transmission.

Filters

Furnace may have rei	ısable-type filters. Filter shall be	in
(x)in. (mm).	An accessory high efficiency Media F	ilter is
available as an option	Media Filter.	

Casing

Casing shall be of .030-in. (.76 mm) thickness minimum, pre-painted steel.

Inducer Motor

Inducer motor shall be soft mounted to reduce vibration transmission.

Draft Safeguard Switch

Draft Safeguard Switch (blocked vent safeguard) shall be factory installed to reduce the possibility of vent gas infiltration due to a blocked or restricted vent pipe.

Heat Exchangers

Heat exchangers shall be a 4-Pass 20 gage aluminized steel of fold-and-crimp sectional design when applied operating under negative pressure.

Controls

Control shall include a micro-processor based integrated electronic control board with at least 11 service troubleshooting codes displayed via enhanced flashing LED diagnostic light on the control, a self-test feature that checks all major functions of the furnace within one minute, and a replaceable automotive-type circuit protection fuse. Multiple operational settings available including, separate blower speeds for heating, cooling and continuous fan. Continuous fan speed may be adjusted from the thermostat. Features will also include temporary reduced airflow in the cooling mode for improved dehumidification when a Thermidistat™ Control is selected as the thermostat.

Operating Characteristics

Heating Capacity shall beoutput capacity.	Btuh input; Btuh
Fuel Gas Efficiency shall be 80% A	AFUE.
Air delivery shall be W.C. external static pressure.	_ CFM minimum at 0.50 In
Dimensions shall be: depth in. (mm); height	in. (mm); width
Height shall beinin. (mm) overall wi	(mm) with A/C coil and

Electrical Requirements

Electrical supply shall be 115 volts, 60 Hz, single-phase (nominal). Minimum wire size shall be _____AWG; maximum fuse size or circuit breaker shall be _____Amps.

Special Features

Refer to section of the product data sheet identifying accessories and descriptions for specific features and available enhancements.