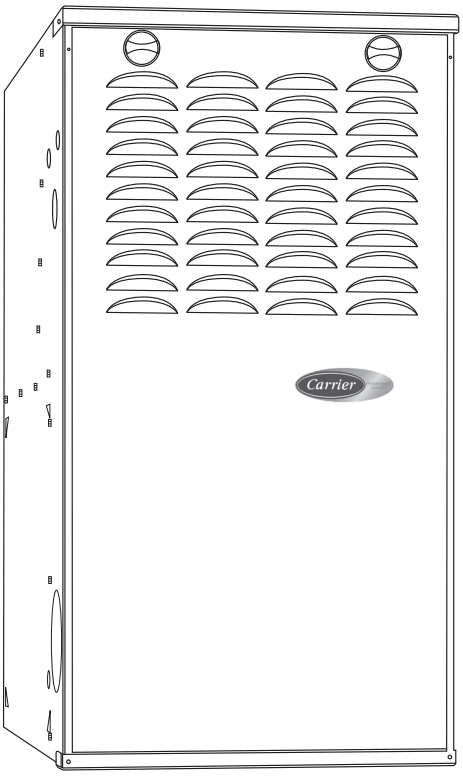
58PHA/PHX PERFORMANCE™ BOOST 80 4–WAY MULTIPOISE INDUCED–COMBUSTION GAS FURNACE Input Capacities: 45,000 thru 135,000 Btuh Series 110

Product Data



A10251

THE CARRIER PERFORMANCE™ BOOST 80 GAS FURNACE

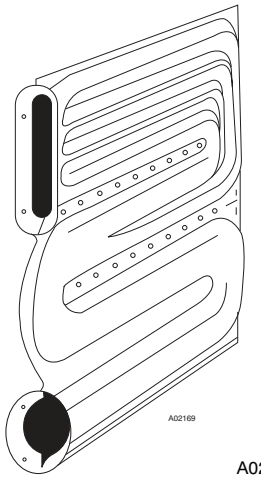
The 58PHA/PHX 4-way Multipoise Gas Furnaces offer deluxe features not found in other single-stage 80% gas furnaces. The ECM motor and Carrier's control logic combine to provide a SEER BOOST of up to 1.5 points.* Carrier's QuieTech™ noise reduction system makes the Performance™ Boost 80 an incredibly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

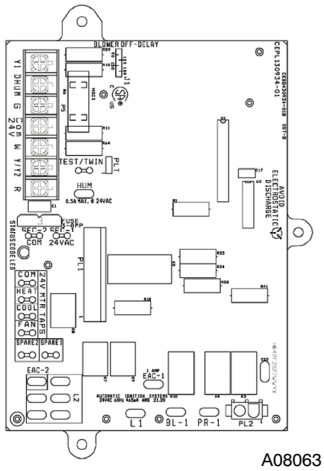
- **ECM Blower Motor included**
- **QuieTech™ noise reduction system**
- **SmartEvap™—Humidity control when using a Thermidistat™ Control**
- **ComfortFan™—adjustable constant fan speed from the thermostat**
- **Microprocessor based control center**
  Enhanced diagnostics with LED and reflective sight 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, air outlets, and condensate drain port(s) 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.



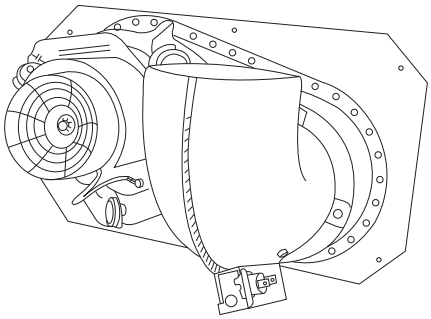
A02169

HEAT EXCHANGER



A08063

CONTROL BOARD



A02170

INDUCER BLOWER

MODEL NUMBER NOMENCLATURE

58PHA 045 100 08

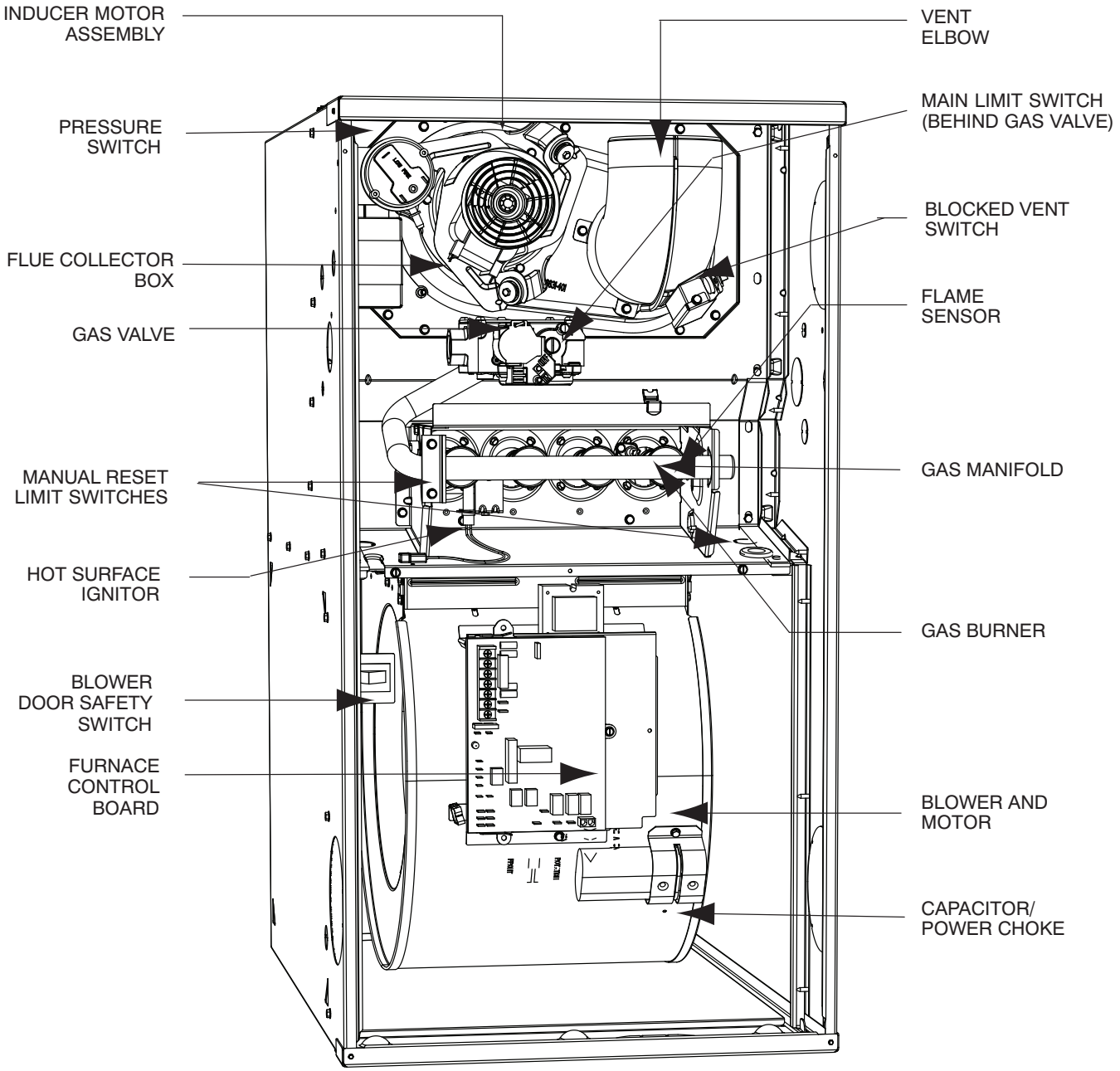
58PHA Deluxe 4–Way Multipoise
58PHX Low NOx Version

Input Rates
045 – 44,000 Btuh
070 – 66,000 Btuh
090 – 88,000 Btuh
110 – 110,000 Btuh
135 – 132,000 Btuh

100
110
Series Number

Nominal Cooling Size
(Airflow at .5 e.s.p.)
400 CFM per 12,000 Btuh)
08 – 800 CFM
12 – 1200 CFM
20 – 2000 CFM

FURNACE COMPONENTS

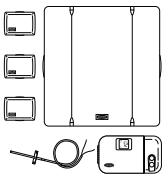


A10314

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.

58PHA

CARRIER ACCESSORIES

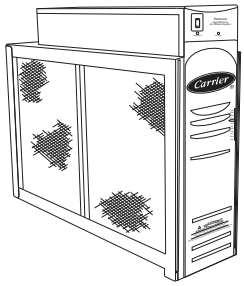


A97432

CONTROLS: THERMOSTATS AND ZONING

Available in programmable and non-programmable models, Carrier thermostats maintain a constant, comfortable temperature level in the home.

For the ultimate in home comfort, Carrier's 2, 4, and 8-zone systems allow temperature control of individual "zones" of the home. This is accomplished through a series of electronic dampers and remote room sensors. The 4-zone system is shown.

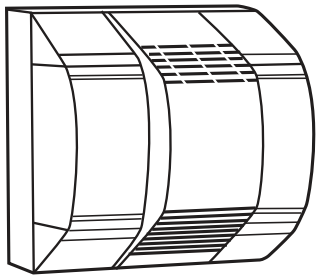


C04008

MECHANICAL OR ELECTRONIC AIR CLEANER

Cleans the air of smoke, dirt, and many pollens commonly found. Saves decorating and cleaning expenses by keeping carpets, furniture, and drapes cleaner.

Electronic air cleaner is shown.



A01484

MODEL HUMCCLFP HUMIDIFIER

By adding moisture to winter-dry air, a Carrier humidifier can often improve comfort and keep furniture, rugs, and draperies in better condition. Moisturizing household air also helps to retain normal body heat and provides comfort at lower temperatures.

A08152

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
THERMOSTAT – NON–PROGRAMMABLE	For use with 1–speed Air Conditioner – deg. F/C, Auto Changeover – TP–NAC, TC–NAC
	For use with 1–speed Heat Pump – deg. F/C, Auto Changeover – TP–NHP, TC–NHP*
	For use with 2–speed Air Conditioner – deg. F/C, Auto Changeover – TP–NRH*
	For use with multi–use / stage configurations – deg. F/C, Auto Changeover/Temperature and Humidity Control – TP–PRH†
THERMOSTAT – PROGRAMMABLE	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*
	For use with 2–speed Air Conditioner – deg. F/C, Auto Changeover, 7–Day Programmable – TP–PRH*
	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†
ZONING CONTROL	Comfort Series™ Three–Zone Kit – ZONECC3ZAC01, ZONECC3ZHP01
	2–Performance™ Series ComfortZone™ Zoning/Temperature and Humidity Control – ZONECC2KIT01–B
	4–Performance™ Series ComfortZone™ Zoning/Temperature and Humidity Control – ZONECC4KIT01–B
	8–Performance™ Series ComfortZone™ Zoning/Temperature and Humidity Control – ZONECC8KIT01–B

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

†Thermidistat™ Control control can be configured for multiple use and staging. It must be configured for each specific application.
‡Dual Fuel thermostat is used with furnace and heat pump application.

CARRIER ACCESSORIES

DESCRIPTION 58PHA/PHX	PART NO.	045–08	070–16	090–16	110–20	135–20
Media Filter Cabinet	FILCABCC0016	X	X			
	FILCABCC0020			X	X	
	FILCABCC0024					X
Cartridge Media Filter	FILCCCAR0016	X	X			
	FILCCCAR0020			X	X	
	FILCCCAR0024					X
EZ Flex Media Filter with End Caps	EXPXXUNV0016	X	X			
	EXPXXUNV0020			X	X	
	EXPXXUNV0024					X
Replacement EZ Flex Filter Media	EXPXXFIL0016	X	X			
	EXPXXFIL0020			X	X	
	EXPXXFIL0024					X
External Bottom Return	KGAFR0401B14	X				
	KGAFR0501B17		X			
Filter Rack	KGAFR0601B21			X	X	
	KGAFR0701B24					X
External Side Return Filter Rack	KGAFR0801SRE	X	X	X	X	X
Unframed Filter 3/4–in. (19 mm)	KGAWF1301UFR †	S	S			
	KGAWF1401UFR			S	S	
	KGAWF1501UFR					S
	KGAWF1306UFR †	X	X			
	KGAWF1406UFR			X	X	
	KGAWF1506UFR					X
Flue Extension	KGAFE0112UPH	X	X	X	X	X
Combustible Floor Base	KGASB0201ALL	X	X	X	X	X
Downflow Vent Guard	KGBVG0101DFG	X	X	X	X	X
Vent Extension Kit	KGAVE0101DNH	X	X	X	X	X
Chimney Adapter Kit	KGACA02014FC	X	X	X	X	
Chimney Adapter Kit	KGACA02015FC					X
Natural–to–Propane Conversion Kit*	KGANP4601ALL	X	X	X	X	X
Propane–to–Natural Conversion Kit*	KGAPN3901ALL	X	X	X	X	X
Label Kit	KGALB0101KIT	X	X	X	X	X
Gas Orifice Kit (Qty 50)	KGAHA0150N42	See Installation Instructions for model, altitude, and heat value usages.				
	KGAHA0250N43 (factory supplied)					
	KGAHA0350N44					
	KGAHA0450N45					
	KGAHA0550N46					
	KGAHA1550N47					
	KGAHA1650N48					
	KGAHA0650P54					
	KGAHA0750P55					
	KGAHA0850P56					
	KGAHA5750125					
	KGAHA5750130					

*Factory–authorized and field–installed. Gas conversion kits are CSA (AGA/CGA) recognized.
†Suitable for Side Return Filter Rack
X – Accessory
S – Standard

58PHA

PHYSICAL DATA

UNIT SIZE		045–08	070–16	090–16	110–20	135–20
OUTPUT CAPACITY BTUH (Non–weatherized ICS)	58PHX Upflow; all 58PHA	36,000	53,000	72,000	90,000	107,000
	58PHX Downflow/Horizontal	34,000	51,000	69,000	86,000	102,000
INPUT BTUH	58PHX Upflow; all 58PHA	44,000	66,000	88,000	110,000	132,000
	58PHX Downflow/Horizontal	42,000	63,000	84,000	105,000	126,000
AFUE%	Non–weatherized ICS	80.0	80.0	80.0	80.0	80.0
SHIPPING WEIGHT LB. (KG)		104 (47)	126 (57)	140 (64)	152 (69)	163 (74)
CERTIFIED TEMP 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 EXT STATIC PRESSURE (In. W.C.)	Heating	0.10	0.12	0.15	0.20	0.20
	Cooling	0.50	0.50	0.50	0.50	0.50
AIRFLOW CFM	Heating	735	1230	1345	1890	1865
	Cooling	1035	1460	1665	2040	2070
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 VALVE(Redundant) Manufacturer		White–Rodgers				
Minimum Inlet Pressure (In. W.C.)		4.5 (Natural Gas)				
Maximum Inlet Pressure (In. W.C.)		13.6 (Natural Gas)				
IGNITION DEVICE		Hot Surface				

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 Z223.1–2009 Table F.4 or furnace Installation Instructions.

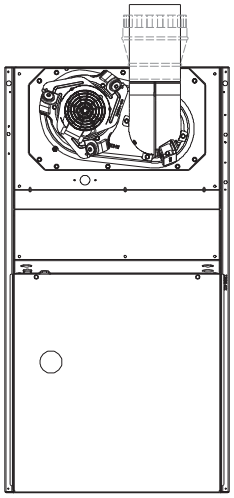
†Capacity in accordance with U.S. Government DOE test procedures.

‡Airflow shown is for bottom only return–air supply. For 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 a Carrier 4–5/16 in. (110 mm) high efficiency media filter.

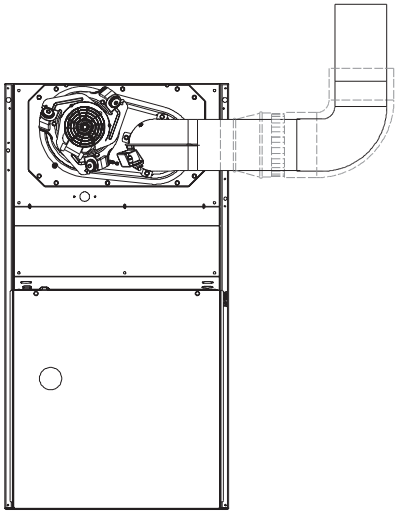
ICS – Isolated Combustion System

BLOWER PERFORMANCE DATA

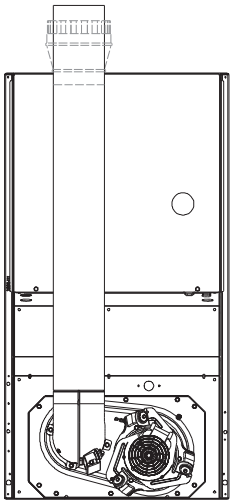
UNIT SIZE	045–08	070–16	090–16	110–20	135–20
DIRECT–DRIVE MOTOR Hp (ECM – 5 Speed)	1/2	3/4	3/4	1	1
MOTOR FULL LOAD AMPS	6.8	8.4	8.4	10.9	10.9
RPM (Nominal) – SPEEDS	1050–5	1050–5	1050–5	1050–5	1050–5
BLOWER WHEEL DIAMETER x WIDTHS – IN (MM)	10 x 6 (254 x 152)	11 x 8 (279 x 203)	10X10 (254 x 254)	11 x 11 (279 x 279)	11 x 11 (279 x 279)



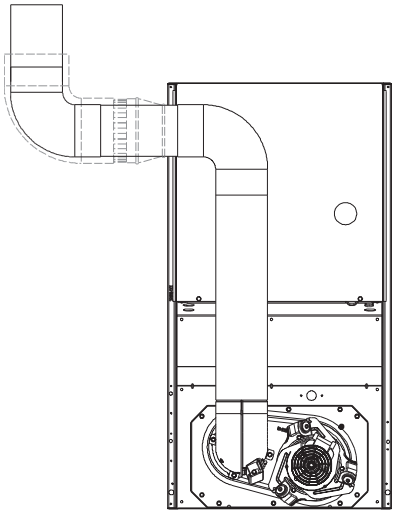
SEE NOTES: 1,2,4,7,8,9
UPFLOW
A02058



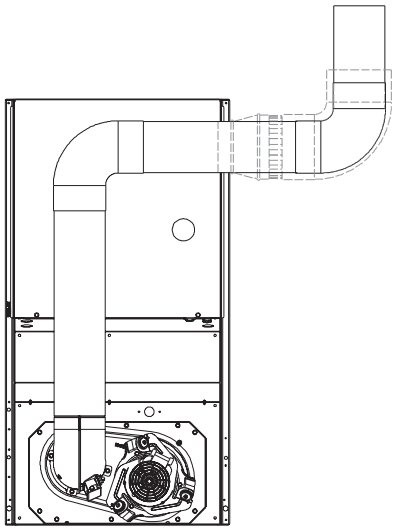
SEE NOTES: 1,2,3,4,7,8,9
UPFLOW
A02059



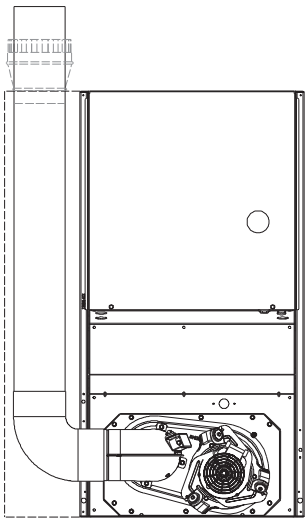
SEE NOTES: 1,2,4,5,7,8,9
DOWNFLOW
A02061



SEE NOTES:1,2,3,4,5,7,8,9
DOWNFLOW
A02060



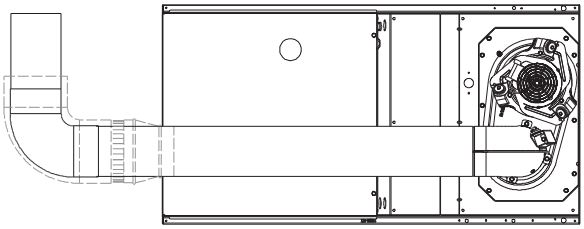
SEE NOTES: 1,2,3,4,7,8,9
DOWNFLOW
A02063



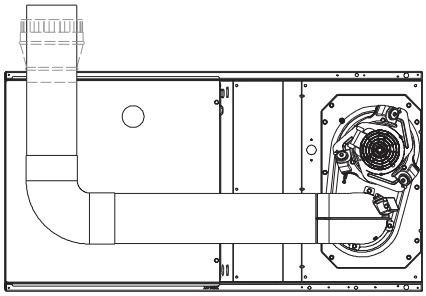
SEE NOTES: 1,2,4,5,6,7,8,9
DOWNFLOW
A02062

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
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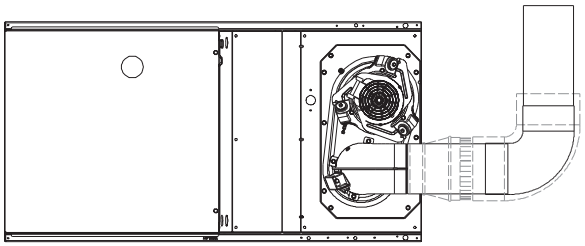
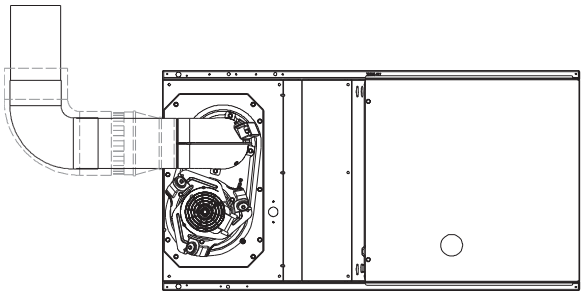
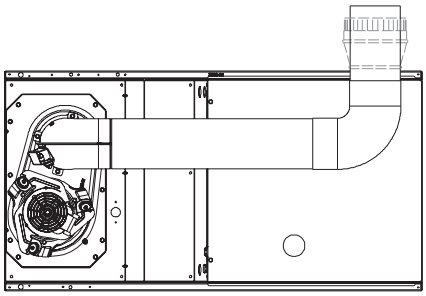
A02070



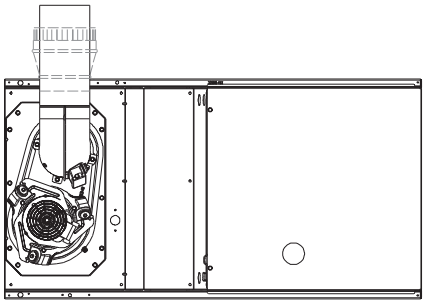
SEE NOTES: 1,2,4,7,8,9
HORIZONTAL RIGHT
A02069



SEE NOTES: 1,2,4,7,8,9
HORIZONTAL LEFT
A02064



SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT
A02065



SEE NOTES: 1,2,4,5,7,8,9
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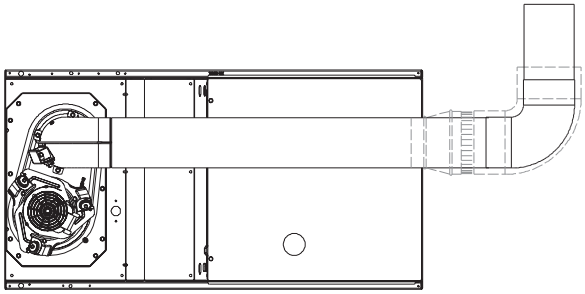
A02066



SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT
A02067

AIR DELIVERY - CFM (WITH FILTER)*

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

– – Indicates unstable operating conditions.

ELECTRICAL DATA

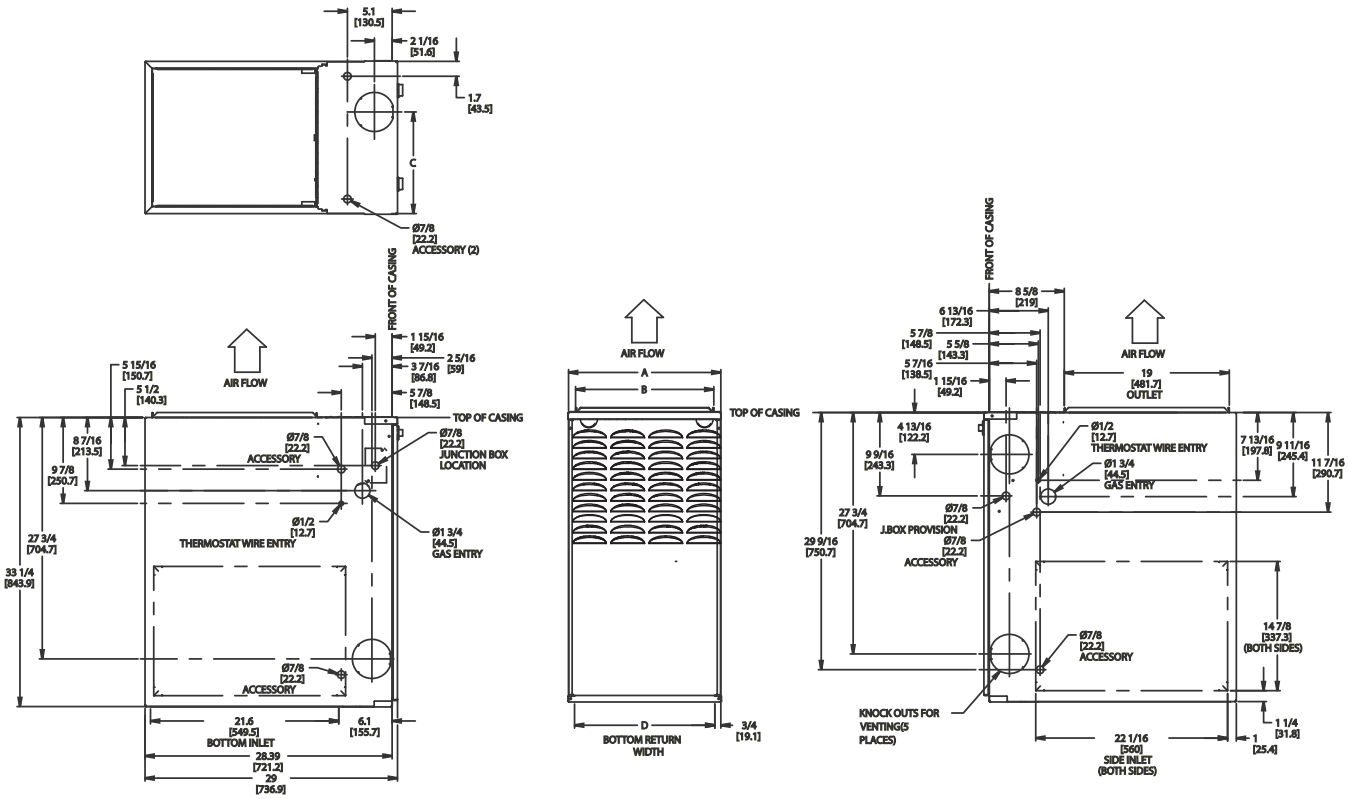
58PHA/ PHX UNIT SIZE	VOLTS–HERTZ–PHASE	OPERATING VOLTAGE RANGE*		MAXIMUM UNIT AMPS	MAXIMUM WIRE LENGTH FT (M)‡	MAXIMUM FUSE OR CKT BKR AMPS†	MINIMUM WIRE GAGE
		Maximum	Minimum				
045–08	115–60–1	127	104	8.1	34 (10)	15	14
070–16	115–60–1	127	104	9.5	29 (9)	15	14
090–16	115–60–1	127	104	10.3	27 (8)	15	14
110–20	115–60–1	127	104	13.1	34 (10)	20	12
135–20	115–60–1	127	104	13.1	34 (10)	20	12

* Permissible limits of the voltage range at which the unit operates satisfactorily.

† Time–delay type is recommended.

‡Length shown is as measured 1 way along wire path between unit and service panel for maximum 2 percent voltage drop.

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.

⚠ WARNING

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.

⚠ CAUTION

Check entire gas assembly for leaks after lighting this appliance.

INSTALLATION

1. 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.
2. 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.
2. 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).

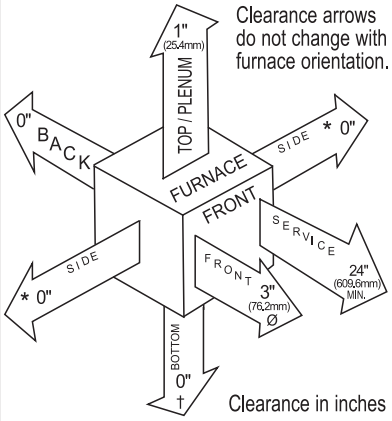
An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.

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.

Ø 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.

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58PHA

Certified System ISO 9001 QMI-SAI Global

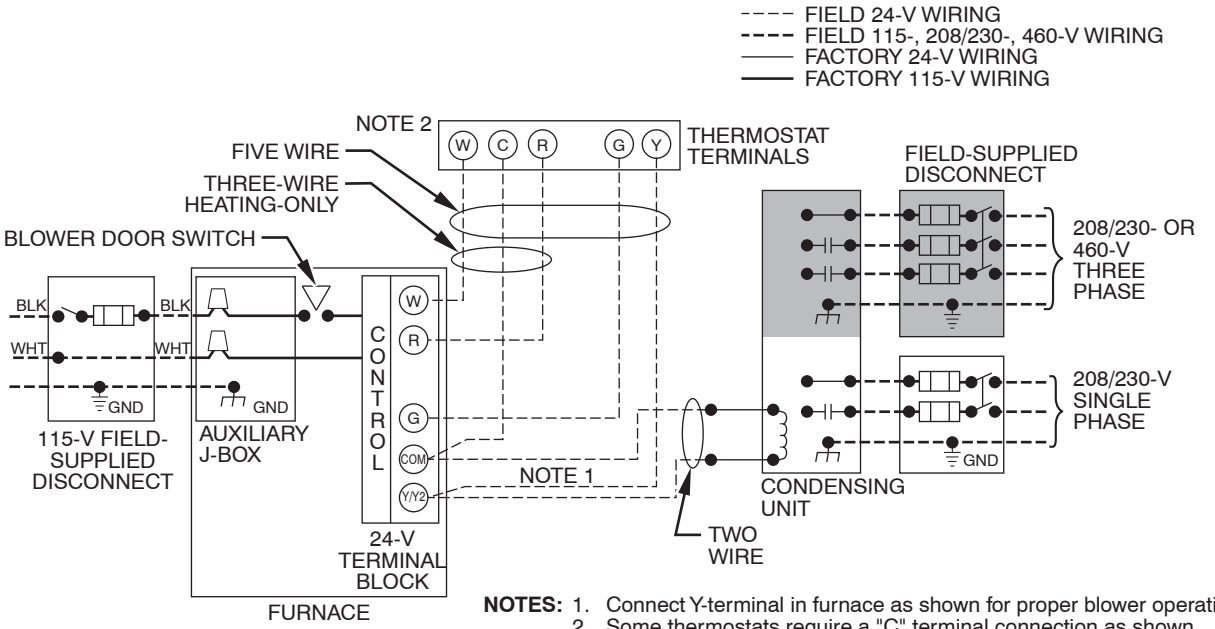
AHRI CERTIFIED www.ahridirectory.org

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.

DESIGN CERTIFIED

Always Ask For FACTORY AUTHORIZED PARTS

TYPICAL WIRING SCHEMATIC



NOTES: 1. Connect Y-terminal in furnace as shown for proper blower operation.
2. Some thermostats require a "C" terminal connection as shown.
3. If any of the original wire, as supplied, must be replaced, use same type or equivalent wire.

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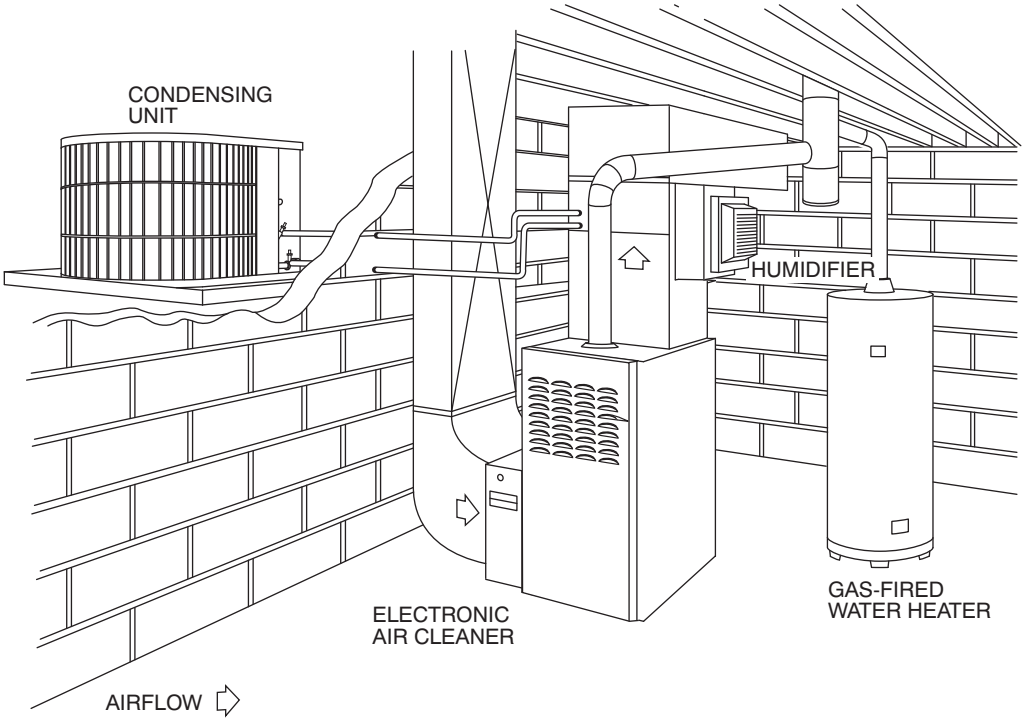
TYPICAL INSTALLATION



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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. Blower motor shall be soft mounted to the blower scroll to reduce vibration transmission.

Filters

Furnace may have reusable-type filters. Filter shall be _____ in (x) _____in. (mm). An accessory high efficiency Media Filter is available as an option. _____ Media Filter.

Casing

Casing shall be of .030-in. (.76 mm) thickness minimum, pre-painted galvanized 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 be _____ Btuh input; _____ Btuh output capacity.

Fuel Gas Efficiency shall be 80% AFUE.

Air delivery shall be _____ CFM minimum at 0.50 In. W.C. external static pressure.

Dimensions shall be: depth _____ in. (mm); width _____ in. (mm); height_____in. (mm) (casing only). Height shall be_____in. (mm) with A/C coil and _____ in. (mm) overall with plenum.

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.

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