

Model	HZ40E-NG1	HZ40E-LP1		
Fuel Type	Natural Gas	Propane		
Minimum Supply Pressure	5" W.C. (1.25 kPa)	11" W.C. (2.73 kPa)		
Manifold Pressure - High	3.5" W.C. (0.87 kPa)	10" W.C. (2.48 kPa)		
Manifold Pressure - Low	1.6" W.C. (0.41 kPa)	6.4" W.C. (1.59 kPa)		
Orifice Size -Altitude 0-4500 ft.	#40 DMS	#53 DMS		
Minimum Input Altitude 0-4500 ft. (0-1372m)	18,000 BTU/h (5.28 kW)	21,000 BTU/h (6.15 kW)		
Maximum Input Altitude 0-4500 ft. (0-1372m)	26,000 BTU/h (7.61 kW)	25,500 BTU/h (7.47 kW)		
Vent Sizing	4" Inner / 6-5/8" Outer	4" Inner / 6-5/8" Outer		

Approved Venting Systems		
Flex Vent Systems:	FPI AstroCap™ Flex Vent	
Rigid Pipe Vent Systems:	Simpson Direct Vent Pro® Selkirk Direct-Temp™ Metal-Fab® Sure Seal ICC Excel	











Inner and outer faceplate dimensions



4 piece faceplate dimensions



FRAMIING DIMENSIONS:

Framing Dim	Description	HZ40E	
А	Framing Height	42" (1067mm)	
В	Framing Width	49-7/8" (1266mm)	
С*	Framing Depth*	C1 Horizontal Vent 19-7/16" (495mm) C2 Vertical Vent 23-7/16" (596mm) Vertical rise -terminating horizontal	
D	Minimum Height to Combustibles	43-7/8" (1004mm)	
E	Corner Wall Depth	57-3/8" (1457mm)	
F	Corner Facing Wall Width	81-1/8" (2061mm)	
G	Vent Centerline Height	36 - 1/4" (921mm)	
Н	Non-combustible facing height	17" (432mm)	
I	Gas Connection Opening Height	2" (51mm)	
J	Gas Connection Height	4 - 3/16" (106mm)	
К	Gas Connection Inset	8 - 5/16" (211mm)	
L	Gas Connection Opening Width	3 - 1/2" (89mm)	
as possi The naili materia	deptrimeasurement is noted with the ble. ng strips can be adjusted back up to 1" to I & wall finishes.	allow for varying thicknesses in non-combustible	
Note: All other framing may be of wood construction.			





MANTEL CLEARANCES

Due to the extreme heat this fireplace emits, the mantel clearances are critical. Combustible mantel clearances from top of front facing are

shown in the diagram on the right.

Note: Ensure the paint that is used on the mantel and the facing is "high quality" or the paint may discolour.



MANTEL LEG CLEARANCES

Combustible mantel leg clearances as per diagram:





CLEARANCES

The clearances listed below are Minimum distances unless otherwise stated:

A major cause of chimney related fires is failure to maintain required clearances (air space) to combustible materials. It is of the greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

Caution Requirements

The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

Heat Wave	The <i>HeatWave</i> Duct Kit and the Heat Release Kit have different clearance and framing requirements, check the <i>HeatWave</i> and Heat Release manual
	neatwave and neat Release manual

WARNING

Fire hazard is an extreme risk

if these clearances (air space) to combustible materials are not

adhered to. It is of greatest importance that this fireplace and vent

system be installed only in accordance with these instructions.

	Heat	Release	Kit	fo
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and	framing requirements, check the
Hea	t Wave and Heat Release manual

Flue Clearances to Combustibles			
Horizontal - Top	3"		
Horiztonal - Side	2"		
Horiztonal - Bottom	2"		
Vertical	2"		
Passing through wall/ floor/ceiling - when firestop is used.	1-1/2"		











VENTING ARRANGEMENT FOR HORIZONTAL TERMINATIONS

The diagram shows all allowable combinations of vertical runs with horizontal terminations, <u>using one 90° </u> (two 45° elbows equal one 90° elbow). (Not including the starting 45° elbow at the flue collar when using rigid venting.)

Note: Must use optional rigid pipe adapter (Part# 510-994) when using Rigid Pipe Venting Systems.



VENTING ARRANGEMENT FOR VERTICAL TERMINATIONS Vertical Venting with One(1) 90° Elbows (1 - 90° = 2 -

45°)

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using one 90° elbow, with **Rigid Pipe Venting Systems**.

Two $\,45^\circ$ elbows equal to one 90° elbow, not including the starting 45° elbow at the flue collar.

- Vent must be supported at offsets.
- Minimum distance between elbows is 1 ft. (305mm).
- Maintain clearances to combustibles as listed in the "Clearances" section.
- · Horizontal vent must be supported every 3 feet.
- Firestops are required at each floor level and whenever passing through a wall.
- Must use optional rigid pipe adaptor (Part# 510-994) when using rigid pipe vent systems.
- Refer to the "Vent Restrictor Position" section for details on how to change the vent restrictor from the factory setting of Set 0 to Set 1 or Set 2 if required.





HORIZONTAL TERMINATIONS FLEX VENT 4" X 6-7/8"

These venting systems, in combination with the HZ40E Direct Vent Gas Fireplace, has been tested and listed as a direct vent heater system by Warnock Hersey/Intertek. The location of the termination cap must conform to the requirements in the Vent Terminal Locations diagram in "Exterior Vent Termination Locations" section.

Regency® Direct Vent (Flex) System Termination Kits includes all the parts needed to install the HZ40E using a flexible vent.

FPI Kit #	Length	Contains:
#946-513	2 Feet	 6-7/8" flexible outer liner (Kit length) 4" flexible inner liner (Kit length) spring spacers
#946-515	4 Feet	 thimble <i>AstroCap</i> termination cap screws tube of Mill Pac
#946-516	10 Feet	 a) plated screws b) S.S. screws #8 x 1-1/2" drill point



HORIZONTAL TERMINATIONS

RIGID PIPE 4" X 6-5/8"

Flat Wall Installation			
Wall Thickness (inches)	Vent Length Required (inches)		
4" - 5-1/2"	6"		
7" - 8-1/2"	9"		
10" - 11-1/2"	12"		
9" - 14-1/2'	11" - 14-5/8" Adj. Pipe		
15" - 23-1/2" 17" - 24" Adj. Pipe			





VERTICAL TERMINATIONS RIGID PIPE 4" X 6-5/8"

The minimum components required for a basic vertical termination are:

- 1 Vertical Termination Cap
- 1 45° Elbow
- 1 Rigid Pipe Adaptor (510-994)
- 1 Ceiling Firestop
- 1 Flashing
- 1 Storm Collar
- 1 Length of pipe to suit wall thickness (see chart)

Galvanized pipe is desirable above the roofline due to its higher corrosion resistance. Continue to add pipe sections through the flashing until the height of the vent cap meets the minimum height requirements specified in Dia. 4 or local codes. Note that for steep roof pitches, the vertical height must be increased. A poor draft, or down drafting can result from high wind conditions near big trees or adjoining roof lines, in these cases, increasing the vent height may solve the problem.

Roof Pitch	Minimum Vent Height	
	Feet	Meters
flat to 7/12	2	0.61
over 7/12 to 8/12	2	0.61
over 8/12 to 9/12	2	0.61
over 9/12 to 10/12	2.5	0.76
over 10/12 to 11/12	3.25	0.99
over 11/12 to 12/12	4	1.22
over 12/12 to 14/12	5	1.52
over 14/12 to 16/12	6	1.83
over 16/12 to 18/12	7	2.13
over 18/12 to 20/12	7.5	2.29
over 20/12 to 21/12	8	2.44

WARNING:

Do not combine venting components from different venting systems.

However use of the the AstroCap[™] and FPI Riser is acceptable with all systems.

This product has been evaluated by Intertek for using a Rigid Pipe Adaptor in conjunction with Duravent Direct-Vent, Selkirk Direct-Temp, Ameri Vent Direct Venting, ICC Excel Direct and Security Secure Vent systems. Use of these systems with the Rigid Pipe adaptor is deemed acceptable and does not affect the Intertek WHI listing of components.

Vent Height

> When using Rigid Vent other than Simpson Dura-Vent, 3 screws must be used to secure rigid pipe to adaptor.

The FPI AstroCap[™] and FPI Riser Vent terminal are certified for installations using FPI venting systems as well as Simpson Dura-Vent[®] Direct Vent, American Metal Products Ameri Vent Direct Vent, Security Secure Vent[®], ICC Excel, Selkirk Direct-Temp. AstroCap[™] is a proprietary trademark of FPI Fireplace Products International Ltd. Dura-Vent[®] and Direct Vent are registered and/or proprietary trademarks of Simpson Dura-Vent Co. Inc.

