

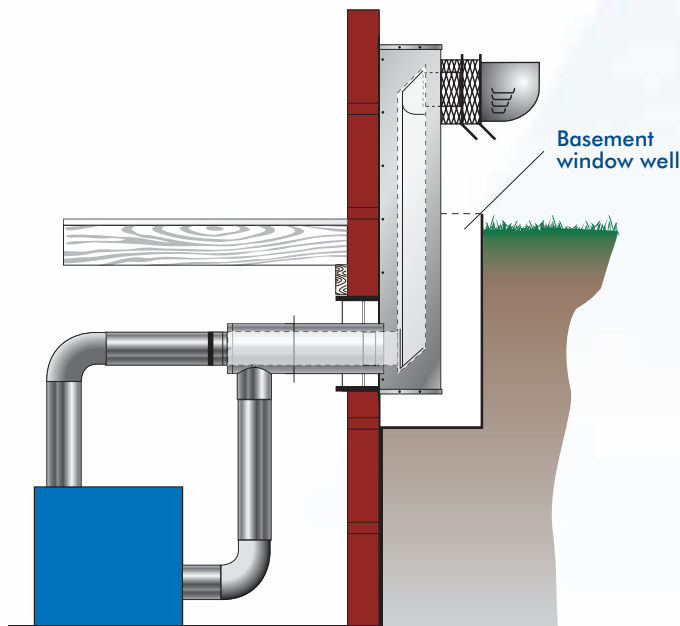
Introducing the new

Vent Riser™

from Field Controls

Sub-grade Venting Just Got Easier!

- Ensures the vent termination is above grade and in compliance with codes
- Perfect for basement installations where a window well must be used or when a vent terminal cannot be mounted to maintain a minimum 12" clearance above grade
- Stainless steel construction
- Combustion air connection rotates 360° for easier installation



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Sizing the Vent Riser™

How to determine total equivalent feet

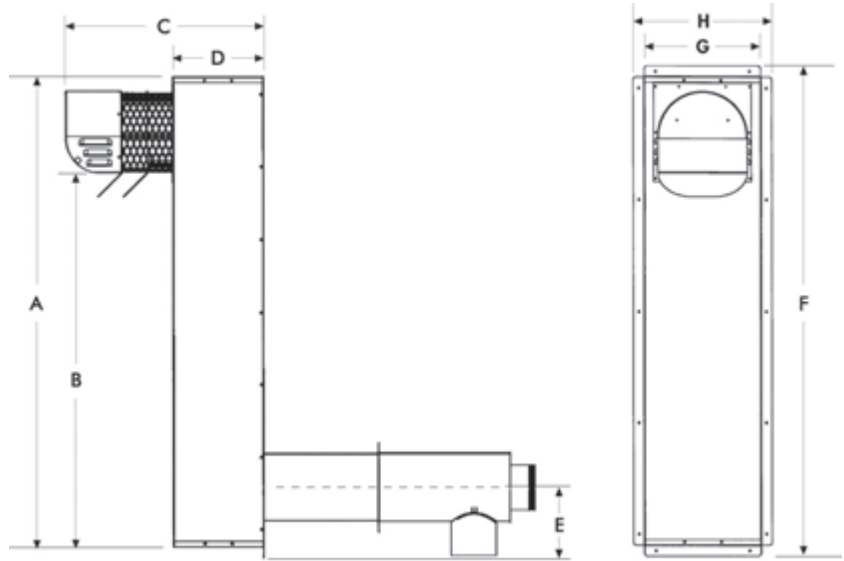
1. Determine the total equivalent feet for each type of fitting used in the venting system from [Tables 1 and 2](#).
2. Calculate the total feet for the straight lengths of pipe.
3. Add the equivalent feet of the fittings to the total amount of feet of straight length pipe. This will approximate the total equivalent feet of the vent system.
4. Find your total equivalent feet in [Table 3](#) to determine the proper model for your installation.

Example: System Pipe Size = 4"

Step 1 2-90° Elbows (4") = 14 Ft.

Step 2 10-2 Ft. Lengths of 4" Pipe = 20 Ft.

Step 3 Total Equivalent Feet = 14 Ft. + 20 Ft. = 34 Ft.



Dimensions

Model	A	B	C	D	E	F	G	H
CV-4VR	42 1/16"	33 1/2"	17 3/4"	9"	6 3/8"	44"	10 1/2"	12 1/2"
CV-5VR	42 1/16"	32 1/4"	20 3/8"	9 5/8"	6 7/8"	44"	10"	12 7/8"

Specifications

Model	Volts	Hz	Amps	Watts	RPM	Thermal Protection
CV-4VR	115	60	1.7	138	3000	YES
CV-5VR	115	60	1.3	144	3100	YES

Table 1-Equivalent Feet for Vent Pipe Fittings

VENT PIPE FITTINGS	VENT PIPE DIAMETER			
	4"	5"	6"	7"
Tee	25	31	38	44
Y-Connection	13	16	20	23
90° Elbow	7	9	11	12
45° Elbow	4	4	5	6

Table 2-Equivalent Feet for a Reducer/Increaser

		PIPE SIZE	
		Small	
		4"	5"
Large	4"	0	-
	5"	2	0
	6"	4	2
	7"	5	4

To estimate the equivalent foot length of the Reducer/Increaser chart, find the figure at the intersection of the small pipe size and the large pipe size.

Table 3-Sizing The Vent Riser (Use Maximum GPH Input)

MODEL	MAX* OIL GPH INPUT 100psi	MAX* OIL GPH INPUT 140psi	Maximum Equivalent Feet of Vent Pipe		COMBUSTION AIR OPTION	VENT PIPE SIZE
			AT MAX GPH INPUT	AT 60% OF MAX GPH INPUT		
CV-4VR	1.10	.90	18	83	YES	4"
			48	100		5"
			100	100		6"
			100	100		7"
CV-5VR	1.85	1.55	-	25	YES	4"
			32	81		5"
			76	100		6"
			100	100		7"

* Select vent riser according to the actual rated maximum GPH input. ComboVent GPH ratings at 100 psi. Do not exceed maximum oil GPH input. For multiple venting system applications add the input for each. Unit sizing may vary depending on specific application. Consult your dealer or factory representative for the proper sizing for your particular application.

Note: In Table 3, the maximum equivalent footage allowable for the vent pipe is given for two points, the maximum GPH venting capacity and at 60% of the maximum. This allows for estimating values between the two given points.



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