

Service Bulletin

SF-025

DATE: December 3, 2008
 TO: All Service and Parts Managers
 SUBJECT: Revised 90% Furnace Venting Tables

We have received several requests to expand the 90% furnace venting tables and allow the use of 2 ½” vent pipe in all locations. Currently these tables show values for 2” and 3” pipe only. The 90% furnace venting tables have been revised and now allow the use of 2 ½” vent pipe

All 90% model furnaces are affected. Please use the tables listed below for properly sizing 2 ½” vent systems. The installation instructions, service manuals and technical manuals are being updated to reflect the change. This bulletin may be used to verify installations with local code officials and inspectors.

Non-Direct Vent (Single Pipe)								
Maximum Allowable Length of Vent/Flue Pipe (ft) ^{(1) (2)}								
Models (kBTU_Tons)	Pipe Size ⁽⁴⁾ (in.)	Number of Elbows ^{(3) (5)}						
		2	3	4	5	6	7	8
045_3	2 or 2 1/2	68	65	62	59	56	53	50
070_3	2 or 2 1/2	36	33	30	27	24	21	18
	3	68	65	62	59	56	53	50
070_4	2 or 2 1/2	55	52	49	46	43	40	37
	3	68	65	62	59	56	53	50
090_4	2 or 2 1/2	37	34	31	28	25	22	19
	3	68	65	62	59	56	53	50
090_5	2 or 2 1/2	39	36	33	30	27	24	21
	3	68	65	62	59	56	53	50
115_5	3	68	65	62	59	56	53	50

1. One 90° elbow should be secured to the combustion air intake connection.
2. Minimum requirement for each vent pipe is five (5) feet in length and one elbow/tee.
3. Tee used in the vent/flue termination must be included when determining the number of elbows in the piping system.
4. 2 ½” and 3” diameter pipe can be used in place of 2” diameter pipe.
5. Increased clearance configurations using two (2) 45 degree long sweep elbows should be considered equivalent to one 90 degree elbow.

Direct Vent (Dual Pipe)									
Maximum Allowable Length of Vent/Flue & Combustion Air Intake Pipe (ft)									
Unit Input (Btu)	Vent/Flue/Air Intake Termination	Pipe Size ⁽⁴⁾ (in.)	Number of Elbows ⁽¹⁾⁽²⁾⁽³⁾⁽⁵⁾						
			2	3	4	5	6	7	8
045_3	Standard	2 or 2 1/2	68	65	62	59	56	53	50
	Alternate	2 or 2 1/2	55	52	49	46	43	40	37
070_3	Standard	2 or 2 1/2	36	33	30	27	24	21	18
	Alternate	2 or 2 1/2	23	20	17	14	11	8	5
	Standard	3	68	65	62	59	56	53	50
	Alternate	3	55	52	49	46	43	40	37
070_4	Standard	2 or 2 1/2	55	52	49	46	43	40	37
	Alternate	2 or 2 1/2	42	39	36	33	30	27	24
	Standard	3	68	65	62	59	56	53	50
	Alternate	3	55	52	49	46	43	40	37
090_4	Standard	2 or 2 1/2	37	34	31	28	25	22	19
	Alternate	2 or 2 1/2	24	21	18	15	12	9	6
	Standard	3	68	65	62	59	56	53	50
	Alternate	3	55	52	49	46	43	40	37
090_5	Standard	2 or 2 1/2	39	36	33	30	27	24	21
	Alternate	2 or 2 1/2	26	23	20	17	14	11	8
	Standard	3	68	65	62	59	56	53	50
	Alternate	3	55	52	49	46	43	40	37
115_5	Standard	3	68	65	62	59	56	53	50
	Alternate	3	55	52	49	46	43	40	37

1. One 90° elbow should be secured to the combustion air intake connection.
2. Minimum requirement for each vent pipe is five (5) feet in length and one elbow/tee.
3. Tee used in the vent/flue termination must be included when determining the number of elbows in the piping system.
4. 2 1/2" and 3" diameter pipe can be used in place of 2" diameter pipe.
5. Increased clearance configurations using two (2) 45 degree long sweep elbows should be considered equivalent to one 90 degree elbow.

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