



Spiderfire Expanded Venting Tables
See Use and Care Manual AP14729

GHE Venting for 2" Power Direct Vent Two Pipe

Number of 90° Elbows		Number of 45° Elbows	Minimum pipe length	Maximum pipe length
				100-130, 160 & 200 only
Inlet vent	Outlet Vent			↓
None	None	None	5	20
One (1)	One (1)	None	n/a	15
One (1)	One (1)	One (1)	n/a	12.5
Two (2)	Two (2)	None	n/a	10
Two (2)	Two (2)	One (1)	n/a	7.5
Three (3)	Three (3)	None	n/a	5
Three (3)	Three (3)	One (1)	n/a	2.5

"Two Pipe" vent tables

DO NOT exceed the venting distances or the number of elbows listed in this manual. You **MAY** substitute two 45 degree elbows for one 90 degree elbow. The maximum number of elbows allowed is thirteen 45 degree elbows - even split between the intake and exhaust vents.

Exceeding the maximum lengths may cause the water heater to malfunction or cause a lockout condition.

GHE Venting for 3" Power Direct Vent Two Pipe

Number of 90° Elbows		Number of 45° Elbows	Minimum pipe length	Maximum pipe length		
				100-130	100-160	all others
Inlet vent	Outlet Vent			↓	↓	↓
None	None	None	5	60	50	40
One (1)	One (1)	None	n/a	55	45	35
One (1)	One (1)	One (1)	n/a	52.5	47.5	37.5
Two (2)	Two (2)	None	n/a	50	40	30
Two (2)	Two (2)	One (1)	n/a	47.5	37.5	26.5
Three (3)	Three (3)	None	n/a	45	35	25
Three (3)	Three (3)	One (1)	n/a	42.5	32.5	22.5

GHE Venting for 4" Power Direct Vent Two Pipe

Number of 90° Elbows		Number of 45° Elbows	Minimum pipe length	Maximum pipe length			
				100-130	100-160	100-200 & 250	100-300 & 350
Inlet vent	Outlet Vent			↓	↓	↓	↓
None	None	None	5	85	75	65	40
One (1)	One (1)	None	n/a	80	70	60	35
One (1)	One (1)	One (1)	n/a	77.5	67.5	57.5	32.5
Two (2)	Two (2)	None	n/a	75	65	55	30
Two (2)	Two (2)	One (1)	n/a	72.5	62.5	52.5	27.5
Three (3)	Three (3)	None	n/a	70	60	50	25
Three (3)	Three (3)	One (1)	n/a	67.5	57.5	47.5	22.5



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GHE Venting for 2" Power Vent One Pipe

Number of 90° Elbows	Number of 45° Elbows	Minimum pipe length	Maximum pipe length
			100-130, 160 & 200 only
Outlet Vent			↓
None	None	5	20
One (1)	None	n/a	15
One (1)	One (1)	n/a	12.5
Two (2)	None	n/a	10
Two (2)	One (1)	n/a	7.5
Three (3)	None	n/a	5
Three (3)	One (1)	n/a	2.5
Four (4)	None	n/a	n/a
Four (4)	One (1)	n/a	n/a
Five (5)	None	n/a	n/a

"One Pipe" vent tables

DO NOT exceed the venting distances or the number of elbows listed in this manual. You **MAY** substitute two 45 degree elbows for one 90 degree elbow. The maximum number of elbows allowed is ten 45 degree elbows .

Exceeding the maximum lengths may cause the water heater to malfunction or cause a lockout condition.

GHE Venting for 3" Power Vent One Pipe

Number of 90° Elbows	Number of 45° Elbows	Minimum pipe length	Maximum pipe length		
			100-130	100-160	all others
Outlet Vent			↓	↓	↓
None	None	5	60	50	40
One (1)	None	n/a	55	45	35
One (1)	One (1)	n/a	52.5	42.5	32.5
Two (2)	None	n/a	50	40	30
Two (2)	One (1)	n/a	47.5	37.5	27.5
Three (3)	None	n/a	45	35	25
Three (3)	One (1)	n/a	42.5	32.5	22.5
Four (4)	None	n/a	40	30	20
Four (4)	One (1)	n/a	37.5	27.5	17.5
Five (5)	None	n/a	35	25	15

GHE Venting for 4" Power Vent One Pipe

Number of 90° Elbows	Number of 45° Elbows	Minimum pipe length	Maximum pipe length			
			100-130	100-160	100-200 & 250	100-300 & 350
Outlet Vent			↓	↓	↓	↓
None	None	5	85	75	65	40
One (1)	None	n/a	80	70	60	40
One (1)	One (1)	n/a	77.5	67.5	57.5	37.5
Two (2)	None	n/a	75	65	55	35
Two (2)	One (1)	n/a	72.5	62.5	52.5	32.5
Three (3)	None	n/a	70	60	50	30
Three (3)	One (1)	n/a	67.5	57.5	47.5	27.5
Four (4)	None	n/a	65	55	45	25
Four (4)	One (1)	n/a	62.5	52.5	42.5	22.5
Five (5)	None	n/a	60	50	40	20