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## MINIMUM AND MAXIMUM VENT LENGTHS

**Note:** Vent pipe size should not be mixed for venting these units. Use same size pipe for all venting of the unit.

**Notice:** Vent terminals need to be mounted horizontally a minimum of 24 inches (center to center) horizontally apart and a maximum of 36 inches apart (center to center). See Figure 12 for venting multiple units.

Power Direct Vent				
Vent Pipe Size ( In. )	2	3	4	6
Model	Maximum Vent Length for Inlet or Outlet ( ft. )			
*GHEXXX-130	20	60	120	n/a
GHEXXX-150,160	20	60	120	n/a
GHEXXX-200	20	60	120	n/a
GHEXXX-250	n/a	50	120	n/a
GHEXXX-300	n/a	50	120	120
GHEXXX-350	n/a	50	70	120
GHEXXX-400	n/a	50	70	120
For each 90° elbow, reduce pipe length by five ( 5 ) feet. For each 45° elbow, reduce pipe length by five ( 2.5 ) feet.				
Example of Venting for 2" Power Direct Vent Setup : Refer to the chart above, " Power Direct Vent", for actual vent length allowed on each model.				
Number of 90° Elbows excluding Vent Terminals		Number of 45° Elbows	Minimum Pipe Length Required (ft)	Maximum Pipe Length (ft)
Inlet Vent	Outlet Vent			
None	None	None	5.0	20.0
One ( 1 )	One ( 1 )	None	-----	15.0
One ( 1 )	One ( 1 )	One ( 1 )	-----	12.5
Two ( 2 )	Two ( 2 )	None	-----	10.0
Two ( 2 )	Two ( 2 )	One ( 1 )	-----	7.5
Three ( 3 )	Three ( 3 )	None	-----	5.0
Three ( 3 )	Three ( 3 )	One ( 1 )	-----	2.5

Power Vent				
Vent Pipe Size ( In. )	2	3	4	6
Model	Maximum Vent Length for Outlet ( ft. )			
*GHEXXX-130	20	120	170	n/a
GHEXXX-150,160	20	120	170	n/a
GHEXXX-200	20	120	170	n/a
GHEXXX-250	n/a	80	130	n/a
GHEXXX-300	n/a	80	130	120
GHEXXX-350	n/a	50	100	120
GHEXXX-400	n/a	50	100	120
For each 90° elbow, reduce pipe length by five ( 5 ) feet. For each 45° elbow, reduce pipe length by five ( 2.5 ) feet.				
Example of Venting for a 4" Power Vent Setup (GHE100-130) Refer to the chart above, " Power Vent", for actual vent length allowed on each model.				
Number of 90° Elbows, excluding Vent Terminals	Number of 45° Elbows	Minimum Pipe Length Required (ft)	Maximum Pipe Length (ft)	
Outlet Vent				
None	None	5.0	170	
One ( 1 )	None	-----	165	
One ( 1 )	One ( 1 )	-----	162.5	
Two ( 2 )	None	-----	160	
Two ( 2 )	One ( 1 )	-----	157.5	
Three ( 3 )	None	-----	155	
Three ( 3 )	One ( 1 )	-----	152.5	
Four ( 4 )	None	-----	150	
Four ( 4 )	One ( 1 )	-----	147.5	
Five ( 5 )	None	-----	145	

\*NOTICE: The GHE Prefix on the model numbers above can also be THE. XXX represents 100, 100ES, 80, or 80ES gallons, except on 250/300 models. The new vent lengths for GHEXXX-250/300 are only for the 80ES and 100ES models.

### Equivalent lengths for Concentric Vent Kits

When utilizing a 3" concentric vent the maximum vent lengths are reduced by the length below:

- When utilizing 2" & 3" diameter vent, reduce the maximum venting length by 3 feet.
- When utilizing 4" diameter venting, reduce the maximum vent length by 17 feet.

**TABLE 1**

**DO NOT exceed the venting distances listed in this manual.**

**Exceeding the maximum lengths may cause the water heater to malfunction or cause a lock-out condition.**

To be added to product bags for manual AP14729-3.

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