



1.1.21. TABLE 1: ALLOWABLE VENT LENGTHS

Vent Configuration	Pipe Size	Minimum Length Vertical and Horizontal for Vent Run	Max Equivalent length Vertical and Horizontal for vent run	Gas Type	Exhaust Vent	Intake Vent
Co-axial vent	Ø2.3/3.9" (Ø60/100 mm)	1 ft (0.3 m) + elbow	19 ft (6 m) + elbow*	Natural or Propane	Polypropylene	Polypropylene
Co-linear vent (2 Separate pipes)****	2" (60 mm)	3.3 ft (1 m)	65 ft (20 m)**	Natural or Propane	PVC, CPVC, Polypropylene	PVC, CPVC, Polypropylene, ABS
Co-linear vent (2 Separate pipes)****	3" (80 mm)	3.3 ft (1 m)	150 ft (46 m)	Natural or Propane	PVC, CPVC, Polypropylene	PVC, CPVC, Polypropylene, ABS
Single vent	2" (60 mm)	1.6 ft (0.5 m)	36 ft (11 m)***	Natural or Propane	PVC, CPVC, Polypropylene	PVC, CPVC, Polypropylene, ABS
Single vent	3" (80 mm)	1.6 ft (0.5 m)	100 ft (30 m)	Natural or Propane	PVC, CPVC, Polypropylene	PVC, CPVC, Polypropylene, ABS

* The domestic fan maximum speed adjustment (P11) must be changed to a value of 198 Hz and the heating fan maximum speed adjustment (P13) must be changed to a value of 183 Hz with a total vent run of above 10 ft (3 m).

** The domestic fan maximum speed adjustment (P11) must be changed to a value of 198 Hz and the heating fan maximum speed adjustment (P13) must be changed to a value of 183 Hz with a total vent run of above 22 ft (7 m).

*** The domestic fan maximum speed adjustment (P11) must be changed to a value of 198 Hz and the heating fan maximum speed adjustment (P13) must be changed to a value of 183 Hz with a total vent run of above 19 ft (6 m).

**** Vent run consists of allowable vent length for exhaust pipe and an additional allowable vent length for combustible air.

NOTE: In Canada, exhaust vent must be approved to ULC S636 standard.

EQUIVALENT LENGTHS

Each 2"/3" (60 mm / 80 mm) 45° elbow equates to 2.5 linear feet to vent pipe.

Each 2"/3" (60 mm / 80 mm) 90° short radius elbow equates to 7.5 linear feet to vent pipe.

Each 2"/3" (60 mm / 80 mm) 90° long radius elbow equates to 5 linear feet to vent pipe.

Each Ø2.3/3.9" (Ø60/100 mm) co-axial 90° short radius elbow equates to 5 linear feet to vent pipe.

The total maximum equivalent vent pipe distance cannot exceed the maximum length listed for horizontal and vertical venting distance. The maximum lengths are not including elbows unless otherwise stated. Exceeding the maximum venting distances will cause the appliance to malfunction or cause an unsafe condition.