

## Venting With Flexible Pipe for chimney

Only listed manufacture specified vent parts may be used for this appliance.

Refer to the manufacture's literature for detailed information.

DuraVent® - Flex Through Chimney w/ Air Intake	
Exhaust	Flex Chimney Lining Kit (3") : 3PPS-FKL, Flex Length (3") : 3PPS-FLEXxx
Intake	Aluminum Flex Length (3") : 3DFA-xx, Coupler (3") : 3DFA-FCP
Exhaust & Intake*	Elbow (3") : 3PPS-E45L, 3PPS-E90L, Single-Wall Pipe (3") : 3PPS-xxL Appliance Adapter for PVC Coupler (2") : 2PPS-ADL, Increaser : 2PPS-X3L

Centrotherm - InnoFlue® PP	
Exhaust	Chimney Kit (3") : IFCK03xx, Flexible Pipe PP (3") : IFVL03xxx
Intake*	Termination** : ISELL0387UV, ISTT0320, Bird Screen : IASPP03
Exhaust & Intake*	Single Wall Pipe (3") : ISVL03xx(UV), ISEP03xx Elbow (3") : ISELL0387UV, ISELL0345UV, ISEL0387, ISEL0345, Increaser : ISIA0203

\* Recommended items.

\*\* Applicable vent termination are "87 degree elbow" or "Tee type".

Concentric vent termination of polypropylene are prohibited.

## Flexible Pipe Installation Instruction

- Every venting system must be properly planned and installed for optimum performance and safety. A flexible pipe installation always begins with an inspection of the existing masonry chimney (Chimney must be clean, sized correctly, properly constructed and in good condition, if being installed in a chimney as a liner). Inspect chimney to make certain it is constructed according to the latest revision of the NFPA211. Local codes may differ from this code and should be checked. Where there is a conflict, the local code will prevail. In Canada refer to the National Building Code or CSA-A405 as applicable.
- Refer to manufacturer's instructions for assembly of all flexible components including the chimney cap and adaptor to rigid pipe at base of masonry Chimney.
- Ensure none of the vent pipes and chimneys are damaged or blocked.
- Do not use an existing chimney as a raceway for a flue pipe if another appliance or fireplace is vented through the chimney, and do not have any connections inside the chimney chase.
- When using an inoperative chimney as a means of a chase for the vent system, the surrounding space within the chimney cannot be used to draw combustion air or vent another appliance.
- The remaining space surrounding a chimney liner, the flexible pipe within a masonry, metal or factory-built flue shall not be used to supply combustion air to the Water Heater. A separate combustion air intake pipe routed back to the Water Heater can be used in the remaining space if required, the Water Heater venting system is approved for zero clearance, and can be run directly beside the combustion air intake pipe. Bolt or screw joints together to avoid sag.
- Flexible pipe vertical offsets must not exceed 45° and are limited to a maximum number of 2.
- Connect flue pipe to the chimney with the shortest possible length of flue pipe.
- Slope the horizontal vent 1/4" upwards for every 12" (300mm) toward the chimney from the Water Heater.
- Check and confirm that there is no tension to the flexible pipe by hanging or suspending of anything.
- Check vent piping at least once a season. Verify vent pipe connections to chimney are secure and no obstructions are present. If vent piping shows sign of leaking, replace it immediately.



Be sure to do

During the installation, ambient temperatures must be greater than 40 °F (5 °C). Afterwards, installation site ambient temperature must be greater than -4 °F (-20 °C). Flexible vent pipe breakage may occur if these temperature requirements are not observed.



## WARNING

### CARBON MONOXIDE POISONING

- Failure to properly seal the vent system could cause flue products to enter the living space.
- Handle the flexible vent carefully.  
Dropping, Crushing and Stacking may cause damage, and may result in fires, property damage or exposure to Carbon Monoxide.

## <Maximum Vent Length Configurations>

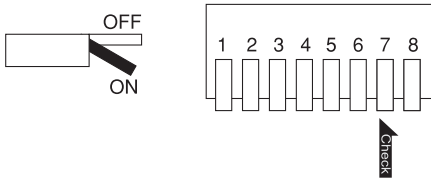
### ●DuraVent® - Flex Through Chimney w/ Air Intake (Only 3")

The vent length condition setting depends on the flexible pipe length, the rigid pipe length and number of elbows. Calculate an each ventilation system equivalent length, then adjust the dip switches.

Vent length condition	Dip switch #7	Maximum equivalent vent length* V (Vertical) + H (Horizontal)	Equivalent Length
Short length	○	– 50 ft (15 m)	Flexible pipe : 1 ft (0.3 m) Rigid pipe : 1 ft (0.3 m)
Long length	●	50 ft (15 m) – 75 ft (22.5 m)	90° elbow : 5 ft (1.5 m) 45° elbow : 3 ft (0.9 m)

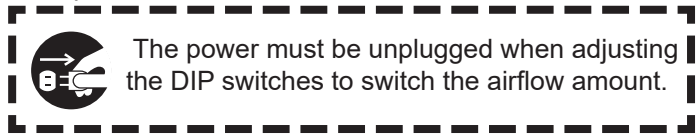
\* The maximum vent length includes elbows.

ON = ● OFF = ○



Do not change any other dip switch.

Refer to the unit's installation manual for the location of the dip switch bank.



### Equivalent vent length calculation example

#### Example 1

Vent Size : 3 inch  
V (Vertical length) : 20 ft  
H (Horizontal length) : 6 ft  
90° elbow : 2

$$1 \text{ ft} \times 20 + 1 \text{ ft} \times 6 + 5 \text{ ft} \times 2 = 36 \text{ ft}$$

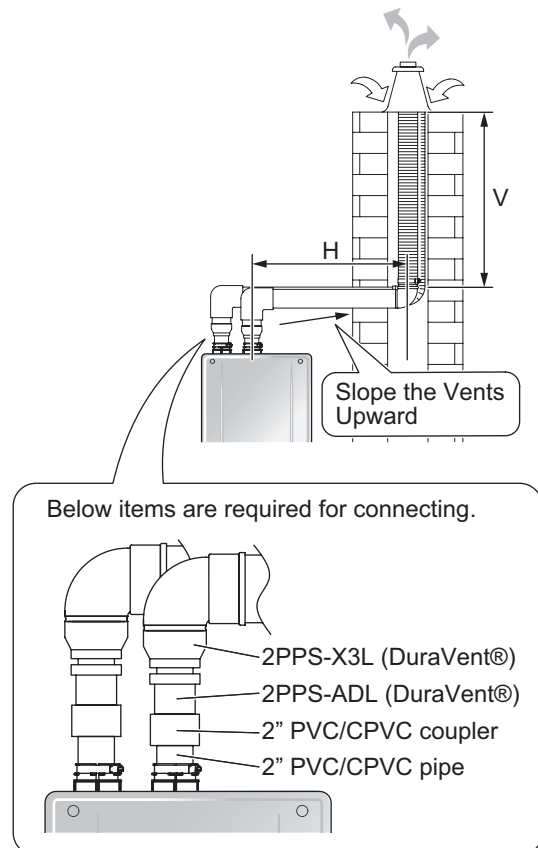
Total equivalent length ≤ 50 ft  
→ Select "Short length".

#### Example 2

Vent Size : 3 inch  
V (Vertical length) : 35 ft  
H (Horizontal length) : 10 ft  
90° elbow : 3

$$1 \text{ ft} \times 35 + 1 \text{ ft} \times 10 + 5 \text{ ft} \times 3 = 60 \text{ ft}$$

50 ft < Total equivalent length ≤ 75 ft  
→ Select "Long length".



## <Maximum Vent Length Configurations>

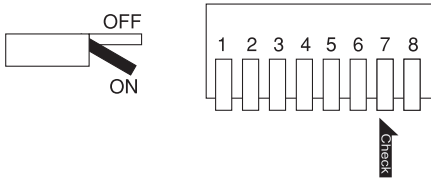
### ●Centrotherm® - Flex Through Chimney w/ Air Intake (Only 3")

The vent length condition setting depends on the flexible pipe length, the rigid pipe length and number of elbows. Calculate an each ventilation system equivalent length, then adjust the dip switches.

Vent length condition	Dip switch #7	Maximum equivalent vent length*		Equivalent Length
Short length	○	Exhaust vent V (Vertical) + H (Horizontal)	- 50 ft (15 m)	Flexible pipe : 1 ft (0.3 m) Rigid pipe : 1 ft (0.3 m) 87° elbow : 5 ft (1.5 m) 45° elbow : 3 ft (0.9 m)
		Air Intake	- 50 ft (15 m)	
Long length	●	Exhaust vent V (Vertical) + H (Horizontal)	50 ft (15 m) – 75 ft (22.5 m)	
		Air Intake	- 75 ft (22.5 m)	

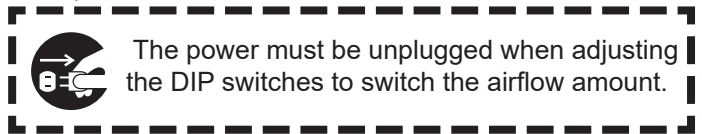
\* The maximum vent length includes elbows.

ON = ● OFF = ○



Do not change any other dip switch.

Refer to the unit's installation manual for the location of the dip switch bank.



### Equivalent vent length calculation example

#### Example 1

Vent Size : 3 inch  
V (Vertical length) : 25 ft  
H (Horizontal length) : 5 ft  
87° elbow : 2

$$1 \text{ ft} \times 25 + 1 \text{ ft} \times 5 + 5 \text{ ft} \times 2 = 40 \text{ ft}$$

Total equivalent length ≤ 50 ft  
→ Select "Short length".

#### Example 2

Vent Size : 3 inch  
V (Vertical length) : 30 ft  
H (Horizontal length) : 10 ft  
87° elbow : 3

$$1 \text{ ft} \times 30 + 1 \text{ ft} \times 10 + 5 \text{ ft} \times 3 = 55 \text{ ft}$$

50 ft < Total equivalent length ≤ 75 ft  
→ Select "Long length".

