



Centrotherm

solutions beyond

InnoFlue® Vent Systems: Specifications

InnoFlue® Single Wall (SW) Residential



InnoFlue® Single Wall (SW) Commercial



Performance

Property	Standard	Results
Maximum Flue Gas Temp.	UL-1738 & ULC-S636 CE EN-14471	230°F (110°C) 248°F (120°C)
Clearance to Combustibles	UL-1738 & ULC-S636	0 at 230°F (110°C)
Leakage	UL-1738	Pass
Pressure	UL-1738 / CE EN-14471	12.5 kPa / HI @ 20 kPa
Pull	UL-1738 & ULC-S636	Min. 101 lb force (.45kg) with Connector Rings
Flame & Smoke with recommended wrap	UL-723, ASTM E-84 & ULC-S102.2	-25 / +50 with recommended wrap
Fire Rating w/ recommended passive fire protection system	ASTM E-814, UL 1479 or ULC S115	2hr with recommended passive fire protection system

Materials & Construction

Low Temperature Handling	UL-1738	Pass at -4°F (-20°C)	
UV Stability	ASTM G23-81	Pass	
Water Absorption	UL-1738	22%	
Diameters	CE EN-14471	2" (60mm), 3" (80mm), 4" (110mm), 5" (125mm)	
Wall Thickness	Internal	Min. Thickness	Max. Thickness
- 2" (60mm)		1.7mm	2.0mm
- 3" (80mm)		1.8mm	2.2mm
- 4" (110mm)		2.7mm	3.0mm
- 5" (125mm)		2.7mm	3.0mm
Deflection Temperature Under Load	ASTM D648-86	302°F (150°C)	

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Materials & Construction

Low Temperature Handling	UL-1738	Pass at -4°F (-20°C)	
UV Stability	ASTM G23-81	Pass	
Water Absorption	UL-1738	22%	
Diameters	CE EN-14471	6" (160mm), 8" (200mm), 10" (250mm), 12" (315mm)	
Wall Thickness	Internal	Min. Thickness	Max. Thickness
- 6" (160mm)		2.9mm	3.5mm
- 8" (200mm)		3.5mm	4.0mm
- 10" (250mm)		3.5mm	4.0mm
- 12" (315mm)		5.0mm	5.8mm
Deflection Temperature Under Load	ASTM D648-86	302°F (150°C)	

InnoFlue® Flex



Performance

Property	Standard	Results
Maximum Flue Gas Temp.	UL-1738 & ULC-5636 CE EN-14471	230°F (110°C) 248°F (120°C)
Clearance to Combustibles	UL-1738 & ULC-5636	0 at 230°F (110°C)
Leakage	UL-1738	Pass
Pressure	UL-1738 / CE EN-14471	12.5 kPa / HI @ 20 kPa
Pull	UL-1738 & ULC-5636	Min. 101 lb force (.45kg)

Materials & Construction

UV Stability	ASTM G23-81	Pass
Water Absorption	UL-1738	22%
Diameters	CE EN-14471	2' (60mm), 3' (80mm), 4' (110mm)
Deflection Temperature Under Load	ASTM D648-86	302°F (150°C)

- × UL-1738 – **InnoFlue®** is the first polymeric vent system tested and listed to UL-1738, the Safety Standard for Category II, & IV, flue gas venting. Listed for use with sustained flue gas temperatures to 230°F (110°C).
- × UL-5636 – **InnoFlue®** is listed to ULC-5636 Type BH Class II C, making it suitable for use where Type BH Class II A, B or C venting is specified in Canada. Listed for use with sustained flue gas temperatures to 230°F (110°C)
- × **Massachusetts Plumbers Board**
Approval code C3-0817-13

InnoFlue® Concentric



Performance

Property	Standard	Results
Maximum Flue Gas Temp.	UL-1738 & ULC-5636 CE EN-14471	230°F (110°C) 248°F (120°C)
Clearance to Combustibles	UL-1738 & ULC-5636	0 at 230°F (110°C)
Leakage	UL-1738	Pass
Pressure	UL-1738 / CE EN-14471	12.5 kPa / HI @ 20 kPa
Pull	UL-1738 & ULC-5636	Min. 101 lb force (.45kg) with included screws

Materials & Construction

Low Temperature Handling	UL-1738	Pass at -4°F (-20°C)	
UV Stability	ASTM G23-81	Pass	
Water Absorption	UL-1738	22%	
Diameters	CE EN-14471	2' / 4' (60/100mm), 3' / 5' (80/125mm), 4' / 6' (110/160mm)	
PP Wall Thickness	Internal	Min. Thickness	Max. Thickness
- 2' (60mm)		1.7mm	2.0mm
- 3' (80mm)		1.8mm	2.2mm
- 4' (110mm)		2.7mm	3.0mm
Metal Wall Thickness	Internal	Min. Thickness	
- 4' (100mm)		1.9mm	
- 5' (125mm)		1.9mm	
- 6' (160mm)		1.9mm	
Deflection Temperature Under Load	ASTM D648-86	302°F (150°C)	



InnoFlue® is the first polymeric vent system tested and listed to ULC-5636 and UL-1738 in North America