Technical Bulletin 162(03)

IPEX System 1738® PVC and CPVC Venting

PURPOSE: To announce the approval of IPEX System 1738® PVC and CPVC Venting for internal (indoor) models of Tankless Water Heaters, I-Series Plus Boilers, I-Series Boilers, and M-Series Boilers.

APPLICABLE MODELS

Tankless Water Heaters	Boilers
Internal (Indoor) Models: • **Residential:** RU199i, RU180i, RU160i, RU130i, RX199i, RX180i, RX160i, RX130i • **Residential with Pump:** RUR199i, RUR160i, RSC199i, RSC160i, RXP199i, RXP160i • **Commercial:** CU199i, CU160i, CX199i, CX160i, CXP199i, CXP160i	**I-Series Plus:** • **Combi:** IP060160C, IP090099C, IP090160C, IP090199C, IP120199C, IP150199C, IP175199C, IP199199C • **Heat-Only:** IP060S, IP090S, IP120S, IP150S, IP175S, IP199S **I-Series:** • **Combi:** i060C, i090C, I120c • **Heat-Only:** i060S, i090S, i120S, i150S **M-Series:** • **Combi:** M060C, M090C, M120C, M160C • **Heat-Only:** M060S, M090S, M120S, M160S

DETAILS

The tankless water heater and boiler models listed above are approved for use with IPEX System 1738® PVC and CPVC (2 in., 3 in., and 4 in.). System 1738® is a PVC and CPVC venting system certified to UL 1738. Highlights include:

- UL 1738 certified vent system for Categories II and IV gas burning appliances
- Certified as a complete system of pipe, fittings, cement, and venting accessories
- PVC is rated for flue gas temperatures up to and including 149°F (65°C)
- CPVC is rated for flue gas temperatures up to and including 194°F (90°C)
- Uses specially-formulated cement, which includes an optical brightener additive that is visible under a UV light for identification of the proper cement for the application
- Cannot be mixed with vent components from other manufacturers
- Termination options include:
  - Low Profile Side Wall Termination Kits (Twin Pipe, 2 in., 3 in., and 4 in. PVC)
  - Concentric Vent Termination Kits (2 in., 3 in., and 4 in. PVC and CPVC)

Approved Vent Manufacturer

Manufacturer	Listed and Tested Vent Product	Website
IPEX	System 1738® PVC and CPVC	www.ipexna.com

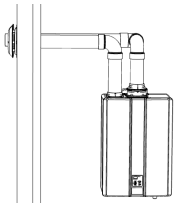
Contact information and part numbers in this technical bulletin are correct at time of publication and are subject to change without notice. Contact IPEX for questions related to the System 1738® PVC and CPVC vent system.

Low Profile Side Wall Termination Kits (Twin Pipe, 2 in., 3 in., and 4 in. PVC)

IPEX Part Number	Product Description	Horizontal Venting	Vertical Venting	Equivalent Length (Ft)
397984	2 in. Low Profile Side Wall Termination Kit	✓		5
397985	3 in. Low Profile Side Wall Termination Kit	✓		5
397986	4 in. Low Profile Side Wall Termination Kit	✓		5

IMPORTANT: A 4 in. vent diameter is permitted ONLY for common venting applications.

Example Configuration



Orientations

Maximum Vent Length

Vent Size	2 in. (51 mm)	3 in. (76 mm)	4 in. (102 mm)
Vent Length	65 ft (20 m)	150 ft (46 m)	*
45° elbow is equivalent to 3 ft (1 m) 90° elbow is equivalent to 6 ft (2 m)			

Concentric Vent Termination Kits (2 in., 3 in., and 4 in. Exhaust PVC and CPVC)

IPEX Part Number	Product Description	Horizontal Termination	Vertical Termination	Equivalent Length (Ft)
2 in.				
397005/392005	16 in. Length Concentric Vent Kit-PVC/CPVC	✓	✓	20
397105/392105	28 in. Length Concentric Vent Kit-PVC/CPVC	✓	✓	20
397125/392125	40 in. Length Concentric Vent Kit-PVC/CPVC	✓	✓	20
3 in.				
397006/392006	20 in. Length Concentric Vent Kit-PVC/CPVC	✓	✓	20
397106/392106	32 in. Length Concentric Vent Kit-PVC/CPVC	✓	✓	20
397116/392116	44 in. Length Concentric Vent Kit-PVC/CPVC	✓	✓	20
4 in.				
397021/392021	36 in. Length Concentric Vent Kit-PVC/CPVC	✓	✓	20

Example Configurations

Side Wall

Vertical

Maximum Vent Length

Vent Size	2 in. (51 mm)	3 in. (76 mm)	4 in. (102 mm)
Vent Length	65 ft (20 m)	150 ft (46 m)	*
45° elbow is equivalent to 3 ft (1 m) 90° elbow is equivalent to 6 ft (2 m)			

* For the maximum vent length of 4 in. (102 mm) vent systems, refer to the common venting manual for the applicable water heater or boiler. The maximum length varies depending on the number of units connected to the common vent system.

The installation must conform to local codes or, in the absence of local codes, to the current editions of the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

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