



Technical Bulletin 155 - Z-FLEX Z-DENS Venting for Rinnai Boilers

Purpose: To announce the approval of Z-DENS Polypropylene Venting by Z-FLEX for Rinnai Condensing Boilers.

Approved Vent Manufacturer

Manufacturer	Listed and Tested Vent Products	Telephone	Fax	Contact
Z-FLEX	Z-DENS Polypropylene Venting System	603-669-5136	603-669-0309	www.z-flex.com

Approved 2 in. (60 mm) Z-DENS Polypropylene Vent Products (Item Numbers)

Pipe Lengths	Elbows	2/4 Concentric Termination	2/4 Concentric Adapter	Locking Clamp, Support Bracket
2ZDP212, 2ZDP212UV, 2ZDP224, 2ZDP224UV, 2ZDP236, 2ZDP236UV, 2ZDP272, 2ZDAP2	2ZDE245, 2ZDE245UV, 2ZDE287, 2ZDE287UV	2ZDCTH24, 2ZDCTV24	2ZDACLC2224	2ZDLC2, 2ZDFB2

Approved 3 in. (80 mm) Z-DENS Polypropylene Vent Products (Item Numbers)

Pipe Lengths	Elbows	3/5 Concentric Termination	3/5 Concentric Adapter	Locking Clamp, Support Bracket
2ZDP312, 2ZDP312UV, 2ZDP324, 2ZDP324UV, 2ZDP336, 2ZDP336UV, 2ZDP372, 2ZDAP3	2ZDE345, 2ZDE345UV, 2ZDE387, 2ZDE387UV	2ZDCTH35	2ZDCTV35	2ZDLC3, 2ZDFB3

The installation of the above components must conform to the Rinnai Installation and Operation Manual that is shipped with the unit, local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

Turn page for maximum equivalent vent lengths.

Maximum Equivalent Vent Lengths

Q-Series Boilers		
Model Number	Maximum Equivalent Length 2 in.	Maximum Equivalent Length 3 in.
Q85S	40 ft (12.2 m)	100 ft (30.5 m)
Q130S		
QP85		
QP130		

E-Series Boilers		
Model Number	Maximum Equivalent Length 2 in.	Maximum Equivalent Length 3 in.
E50C/E50CR	40 ft (12.2 m)	100 ft (30.5 m)
E75C/E75CR		
E110C/E110CR		
E60SR		
E85SR		
E110SR		

M-Series Boilers		
Model Number	Maximum Equivalent Length 2 in.	Maximum Equivalent Length 3 in.
M060C	60 ft (18 m)	150 ft (46 m)
M090C	30 ft (9 m)	140 ft (43 m)
M120C		
M160C		
M060S	60 ft (18 m)	150 ft (46 m)
M090S		
M120S	30 ft (9 m)	140 ft (43 m)
M160S		

- Each termination is equivalent to the length of pipe of the termination.
- Each 90-degree elbow counts as six equivalent feet.
- The installer must determine the number of 90-degree elbows in the vent system (two 45-degree elbows count as one 90-degree elbow).