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|  | **TECHNICAL SERVICE DEPARTMENT**  **Technical Service Bulletin**  **1-800-432-8373**  **Induced Draft/Fan Assist  Gas-Fired Water Heater**  **60,000 Btu/hr.** |  |

**XR90 Venting Requirements**

**The XR90 is a “*Fan-Assisted Combustion Appliance”*** which means it is a water heater equipped with an inducer assembly that draws flue gases out of its combustion system and exhausts them into a venting system.

**IMPORTANT:** Use only Listed Type B, Double Wall, Gas Vent and listed Type B or Single-Wall Vent Connectors for the vent system. **DO NOT** use non-metallic pipe and fittings.

If this water heater is being installed as a replacement, inspect the existing vent system to ensure that the vent pipe and fittings are the correct type and size for the XR90, and there is nothing blocking or obstructing the inside of the vent pipe and fittings. It is also important that the vent system not show any signs of corrosion. If there are signs of corrosion, the vent pipe and/or fittings must be replaced.

The water heater must be vented in accordance with the instructions in the water heater’s Use & Care manual, local codes, utility company requirements, and/or in the absence of local codes, use the current edition of the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

** DANGER: Failure to properly vent the water heater to the outdoors as outlined in the “Venting” section of the Use & Care manual will result in unsafe operation of the water heater causing bodily injury, explosion, fire or death. To avoid the risk of fire, explosion, or asphyxiation from carbon monoxide, NEVER operate the water heater unless it is properly vented and has adequate air supply for proper operation as outlined in the Venting section of the manual.**

The venting system for the XR90 requires the use of three (3) inch or four (4) inch, listed, Type B, Double-Wall vent and listed Type B vent connectors. Vent pipe or vent connector must be securely fastened to the exhaust outlet of the inducer. Use only vent connectors that are the same size or larger (never smaller) in diameter than the exhaust outlet of the inducer.

The following are abbreviated venting tables for reference from the current edition of the National Fuel Gas Code, ANSI Z223.1/NFPA 54 that are applicable to this water heater.

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| --- | --- | --- | --- |
| **Type B Double-Wall Gas Vent** | | | |
| **Number of Appliances: Single** | | | |
| **Appliance Type: Category I** | | | |
| **Appliance Vent Connector: Single-Wall Metal**  **Connector** | | | |
| **3 *(in.)*** | | **4 *(in.)*** | |
| **Height**  **“H” *(ft.)*** | **Height**  **“H” *(ft.)*** | **Height**  **“H” *(ft.)*** | **Height**  **“H” *(ft.)*** |
| 6 | 0 | 6 | 6 |
| 8 | 0 | 8 | 8 |
| 10 | 2 | 10 | 10 |
| 15 | 5 | 15 | 10 |
| 20 | 5 | 20 | 10 |
| 30 | 5 | 30 | 15 |
| 50 | 5 | 50 | 15 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Type B Double-Wall Gas Vent** | | | |
| **Number of Appliances: Single** | | | |
| **Appliance Type: Category I** | | | |
| **Appliance Vent Connector: Connected Directly**  **to Vent** | | | |
| **3 *(in.)*** | | **4 *(in.)*** | |
| **Height**  **“H” *(ft.)*** | **Height**  **“H” *(ft.)*** | **Height**  **“H” *(ft.)*** | **Height**  **“H” *(ft.)*** |
| 6 | 0 | 6 | 6 |
| 8 | 0 | 8 | 8 |
| 10 | 2 | 10 | 10 |
| 15 | 5 | 15 | 15 |
| 20 | 10 | 20 | 20 |
| 30 | 15 | 30 | 30 |
| 50 | 15 | 50 | 30 |

The water heater may also be vented into a lined chimney or common vented with other appliances. Follow local codes, or current edition of the National Fuel Gas Code, ANSI Z223.1/NFPA 54.