

## Ducted Systems Technical Services: Service Tips Letter

Letter: ST-019-2022

Date: November 16, 2022      Effective: December 01, 2022

To: S1 HVAC Branch and Distributor Principal, Sales Manager, Service Manager, Parts Manager, Warranty Manager, Training Manager, Delegated Administrator.  
Ducted Systems Technical Services, DS Parts/S1, ES Americas, ADTI Channel, Account Representatives, Marketing, Sales, Warranty teams.

Subject: **Condensing Furnace Venting - Approved materials**

Product/s: All 33" condensing furnace models

Summary: **This letter provides updated information regarding previously approved materials used for condensing gas furnace combustion venting.**

Johnson Controls residential condensing gas furnaces are engineered and manufactured to comply with the ANSI Z21.47/CSA 2.3 harmonized standard for gas fired central furnaces. An update to the Standard will go into effect on December 1, 2022, which states, "Cellular core PVC (ASTM F891), cellular core ABS, Radel® (polyphenylsulfone), and Ultem® (polyetherimide), shall not be used in non-metallic venting systems".

References to cellular core venting systems have been removed from the list of approved vent systems for all Johnson Controls residential condensing gas furnace installation manuals as shown in the **RED** strike-out portion to the right. Publication date of the updated installation manuals is November 2022 however this is a running change and equipment in the distribution channel may have outdated installation manuals. Online versions of the updated publications will be available soon. As this is a change to the ANSI standard, this letter is intended to supersede installation manuals that have been printed prior to the change. Furnace installations performed on or after December 1, 2022, should not be vented using cellular core piping.

- All PVC, CPVC, or ABS combustion air and vent pipe must conform to American National Standards Institute (ANSI) and American Society for Testing and Materials (ASTM) standards D1785 (Schedule 40 PVC), D2665 (PVC-DWV), ~~F891 (PVC-DWV-Cellular Core)~~, D2846 (CPVC), F441 (CPVC), F442 (CPVC), D2261 (ABS-DWV), or F628 (Schedule 40 ABS). Pipe cement and primer must conform to ASTM Standard D2546 (PVC), F493 (CPVC), or D2235 (ABS). If ABS pipe is to be used, any joint where ABS pipe is joined to PVC pipe must be glued with cement that is approved for use with BOTH materials. Metallic materials must not be used for venting or air intake.



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