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Service

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Use of Compression Fittings with Fujitsu Airstage Equipment

This bulletin provides an overview of the application of third-party compression fittings with Fujitsu Airstage equipment. These fittings can be used in place of brazed connections in a VRF refrigerant piping system.

For most applications, Fujitsu recommends the use of traditional copper refrigerant piping and proper brazing techniques. This combination has proven reliability across many applications and over long periods of use. However, Fujitsu understands that in some cases, the use of compression fittings may have an economic or logistical advantage over brazing.

This bulletin does not condone the use of any alternative piping material. Fujitsu Airstage systems may only be piped with high-quality copper refrigerant piping as specified in the Design & Technical Manuals and the Installation Manuals.

Fujitsu is not responsible for field installed piping or piping connections, nor for system warranty issues associated with piping leaks or failures. The approved use of compression fittings is dependent on the following guidelines:

1. The installing contractor must be fully trained and qualified for installation by the manufacturer of the compression fitting components.
2. All of Fujitsu's guidelines related to piping and piping components must be strictly followed, including proper pressure testing and evacuation procedures.
3. The installing contractor may not use any piping branches or separators that are not Fujitsu-provided separation tubes, headers, and/or outdoor unit branch kits.
4. The burst pressure of the refrigerant piping system with compression fittings must be greater than or equal to 1,800 psig.
5. The compression fittings must be in compliance with all applicable local code requirements.
6. The installing contractor must ensure that no foreign substances are introduced into the refrigerant system, including sealants or other liquids provided by the manufacturer of the compression fittings.
7. The installing contractor assumes all responsibility for the quality and reliability of piping and piping components, with the exception of those components provided by Fujitsu.

It is the responsibility of the installing contractor to ensure that good refrigeration practices are carried out when using compression fittings and to follow the guidelines provided by the manufacturer of the compression fittings. Fujitsu General America is not responsible for malfunctions of an Airstage system as a result of installation of the compression fittings, including poor workmanship and/or poor refrigeration practices carried out by the installing contractor.