

AIRSTAGE

H-SERIES, J-SERIES, V-SERIES

ProCore™
High Corrosion-Resistant Copper



PROCORE™
High Corrosion-Resistant Technology



FUJITSU GENERAL AMERICA, INC

Fujitsu continues to innovate!

Over time, copper tubing used in a HVAC system can corrode with constant exposure to dampness and Volatile Organic Compounds (VOC's) that are in the air. Over the years we've made improvements in copper that allow us to actively manage corrosion with little or no effect to the heat transfer systems reliability and characteristics.

From 2015 – 2018 we incorporated Oxygen Free Copper (OFC) into our systems, which greatly reduced the risk of formicary corrosion. We have taken additional steps to further improve the reliability of our systems by using a special type of copper.

In 2019 we moved to High Corrosion-Resistant Copper tubing, that we call ProCore™. This tubing is manufactured using a unique formulation which inhibits pitting and corrosion and maximizes the heat transfer system's reliability. Fujitsu's ProCore™ technology helps prevent system degradation and performance deficiencies.

ProCore™ High Corrosion Resistant Copper

Corrosion forms horizontally across the surface of the tube which inhibits oxidization from penetrating deeper into the copper and eventually causing a leak. In the most severe environments, our ProCore™ copper tubing would corrode on the surface maintaining the integrity of the refrigeration system with no reduction in capacity or service to the end user. Just one more way Fujitsu is bringing you Infinite Comfort!

What is VOC? (Volatile Organic Compound)

Volatile Organic Compounds are compounds that have a high vapor pressure and low water solubility. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, pharmaceuticals, and refrigerants.

Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and floor shines all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing, and hobby products. Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.

Testing and Research

Through testing and research, Fujitsu General has confirmed the manufacturing process of ProCore™ Copper, which include copper quality, purity and consistency of copper thickness. All test results indicate that these items are within specification and showed no abnormalities while maintaining system cooling and heating reliability.

Strength and Reliability

Through accelerated lab tests, testing has proven to show that ProCore™ Copper is resilient and stronger than the standard and OFC (Oxygen Free Copper) when exposed to corrosive environments.



Standard
Copper Tubing



Oxygen-Free
Copper Tubing



ProCore™
Copper Tubing

Coil Cleaning

In extreme environments, it is recommended that a contractor or installer follows industry preventative maintenance procedures and clean the coils of the indoor unit on an annual or bi-annual basis using a spray cleaner. Fujitsu recommends specially formulated alkaline detergent with the strength to dissolve grease, oil, dirt, tar, lint, nicotine, etc. without attacking aluminum fins. When mixed properly and when used in conjunction with a chemical neutralizer, this combination will ensure your system is properly cleaned. Mini-Split Neutralizer is used to neutralize the alkalinity of mini-split cleaner after cleaning and to prevent possible damage to aluminum fins from improper rinsing.

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