

Quantech fluid-to-air microchannel heat exchangers

Quantech microchannel heat exchangers (MCHXs) have been carefully designed and tested for the unique conditions a building's HVAC system will experience. The advantages of this technology combined with coating options for corrosive environments – available with a 5-year warranty – make it the preferred choice.

Microchannel design

Quantech MCHXs use parallel flow aluminum alloy tubes, metallurgically brazed to enhanced aluminum alloy fins. The proprietary aluminum alloys used are carefully selected – the result of rigorous laboratory testing, field trials and thousands of installations in the most severe climate conditions around the globe. The MCHX is easy to clean and designed to lower the complexity and cost of routine maintenance.



Easy to maintain – only water and a hose required to clean the coils.

Advantages:



Performance

- Improved heat transfer properties
- Reduced air-side pressure drop



Sustainability

- Smaller size, lower weight and reduced carbon footprint
- Up to 50% reduced refrigerant charge



Reliability

- Improved mechanical durability
- Easier to clean and maintain



Protection from harsh environments with an industry-leading warranty

Environment Guard and Environment Guard Premium are designed to protect the microchannel heat exchangers from the harshest environments. Exceptionally flexible and durable, these coatings are designed to protect the coil with no impact on thermal performance.

These coatings, when applied during the manufacturing process, provide increased reliability in harsh, corrosive environments, and allow for a complete and uniform coating over the entire heat exchanger exterior surface for a superior resistance to industrial, coastal and other challenging environments.

5-year warranty against corrosion

An industry-best 5-year warranty against corrosion is available with all microchannel heat exchangers coated in the factory, protecting your investment and reducing your total cost of ownership.

When is Environment Guard recommended?

Product location determines if Environment Guard and which level of protection to consider based on proximity to known corrosive environments.

Environment Guard Basic is recommended:

- within 5 miles (8 km) of the seacoast,
- in high humidity environments more than 5 miles (8 km) from seacoast without additional corrosive conditions such as agricultural, construction or industrial sites,
- in desert environments where corrosive compounds may be present.

Environment Guard Premium is recommended:

- for installations where direct salt water contact is expected, such as on a pier,
- for installations within 5 miles (8 km) of the seacoast where additional corrosive conditions may exist, such as agricultural, construction or industrial sites,
- for installations with corrosive environments such as agricultural, construction or industrial environment, where there is evidence of severe corrosion damage to existing equipment.

ONLY FROM QUANTECH

Ready to learn more about the microchannel heat exchangers from Quantech?

Contact your Quantech Sales Rep for an MCHX application guide or visit www.quantech-hvac.com

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