

SANHUA



Micro-Channel Heat Exchangers MCHE

BENEFITS

- No galvanic corrosion (100% aluminum)
- Refrigerant charge reduction – up to 70%
- Long life alloy for very aggressive environments
- Helps manufacturers to meet high SEER (Seasonal Efficiency Ratio) and HSPF (Heating Seasonal Performance Factor) requirements.
- MCHE is more than 30% higher HT efficiency
- Up to 30% lower airside dP
- MCHE is lighter in weight, smaller in volume: up to 50%
- 100% Aluminum, easy to cycle
- Minimum performances decrease with lifetime (100% brazed)
- Special tube bending structure for A-coil
- Special desing for good refrigerant distribution
- Special fin desing for good water drainage.



SANHUA MCHE Evaporator

Over 100,000 coils on the market since 2011

The Sanhua MCHE Evaporator

- Performs in both heating, cooling and as a dehumidifier.
- Operates in both condensing and evaporating mode.

Applications

- Commercial cooling and heating.
- Residential air conditioning and heating.
- Commercial retail refrigeration.

SANHUA MCHE Heat Pump Coil

The Sanhua MCHE Heat Pump Coil

- Designed to perform in both cooling and heating functions.

Applications

- Commercial heating and cooling applications (Rooftop and chiller units).
- Residential air conditioning units.
- Heating Heat pump units.

SANHUA MCHE Condenser

Over 1 million coils on the market since 2008

The Sanhua MCHE Condenser

- Developed with a superior design and performance in cooling mode.

Applications

- Commercial cooling application for chillers units .
- Residential air conditioning for outdoor units.
- Refrigeration application (transport and retail refrigeration).



COMMERCIAL AC

Key benefits

- Raise product efficiency or reduce footprint
- Save money on raw material, transport, storage
- Improve environmental performance and meet regulations
- Attract customers with lean, MCHE-based products

TRANSPORT REFRIGERATION

Key benefits

- Create high-capacity products for transport
- Attract customers with reduced fuel costs and more cargo space
- Improve environmental performance and meet regulations

PRECISION COOLING

Key benefits

- Precise temperature control to safeguard sensitive equipment
- Compact, space-saving units
- Low energy consumption
- Meet environmental regulations

COLD ROOMS

Key benefits

- Hygiene – very easy to clean
- Build compact space saving units
- Reliable temperature control
- Meet environmental regulations
- Low energy consumption

RESIDENTIAL AC and Heating Heat Pump

Key benefits

- Higher system efficiency
- Better environmental performance
- Lower noise levels

APPLICABILITY

Refrigerant:

R410A, R134a, R22, R407C, R404A

Design pressure:

4.5MPa

Ambient air temperature:

-30°C to 72°C (-22°F to 161.6°F)

Expected refrigerant temperature:

-30°C to 121°C (-22°F to 250°F)

Storage temperature:

-30°C to 121°C (-22°F to 250°F)

ASSEMBLY



SHIPPING PALLET



FIN PROCESS



FIN MACHINE



HELIUM DETECTOR



FURNACES

Manufacturing capabilities



SANHUA

CHILLING *IDEAS* WORLDWIDE

FOR DETAILED
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