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 design for good refrigerant distribution
Special fin design 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).
Micro-Channel Heat Exchangers (MCHE)

**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)

**MANUFACTURING CAPABILITIES**
- **ASSEMBLY**
- **FIN MACHINE**
- **FIN PROCESS**
- **FIN PROCESS**
- **FURNACES**
- **SHIPPING PALLET**
- **HELIUM DETECTOR**