



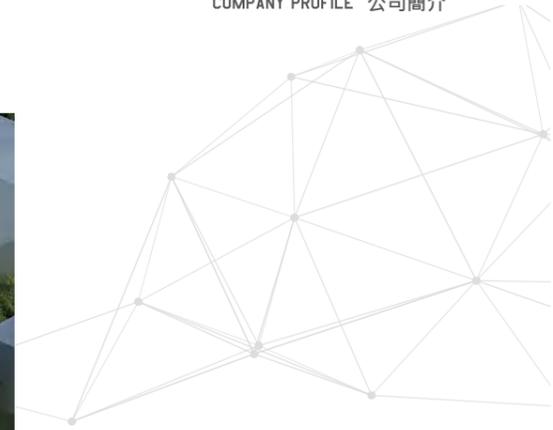
MICRO CHANNEL HEAT EXCHANGER
— PROFESSIONAL MANUFACTURER
微通道換熱器專業製造商

XUANYO TECHNOLOGY Co., Ltd.
旋佑股份有限公司

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XUANYO TECHNOLOGY Co., Ltd.

旋佑股份有限公司



COMPANY
PROFILE

公司簡介

核心價值

- ◆ 專業創新：不斷提升技術與產品創新，為客戶提供領先的散熱解決方案。
- ◆ 品質保證：選用優質材料，嚴格控管生產流程，確保每一件產品都符合國際標準。
- ◆ 環保永續：致力於設計與製造環保節能的產品，支持永續發展，減少對地球資源的消耗。
- ◆ 客戶導向：從需求出發，精準設計與規劃，提供量身定制的解決方案。

旋佑股份有限公司 創立於2022年，專注於提供高效、環保的散熱解決方案服務。

產品範圍包含：板式熱交換器、微通道、風扇、泵浦等...散熱元件，廣泛應用於電子、通信、工業設備等領域。

具備Alfa Laval 在台灣地區的授權經銷商，擁有全球領先的熱交換技術及產品，旨在提供「專業設計、高效產品」，無論是標準化產品或量身訂製的散熱系統，我們始終以品質為本，精益求精，致力於幫助客戶提升產品效能與穩定性。

使命與願景

旋佑將持續推動技術創新，拓展市場應用，為各種應用需求提供精確、長效的散熱解決方案。並以卓越的服務與產品品質，以成為客戶企業發展上，最有力的合作夥伴。

BUSINESS ADVANTAGE
企業優勢



TECHNOLOGY ADVANTAGE
技術優勢

- With a 15 engineers R&D team,75% of them with 5 year MCHE industry experience.
- Whit more than 20 items MCHE invention patents and utility patense.
- 公司擁有一個15人的設計研發團隊，其中75%以上有5年以上的微通道行業工作經驗。
- 擁有超過20項的發明專利和實用專利。

PRODUCTS ADVANTAGE
產品優勢

- Product is with CE,UL,ROHS certificate.
- 100% of the products must pass the helium leak inspection before delivery.
- Product can be E-coating,Dacromet,Surface passivation,Epoxy,Powder Spraying or Painting surface treatment.
- 產品CE,UL,認證。
- 100%產品出貨前必須氦檢。
- 可提供電泳、達克羅、表面鈍化、環氧樹脂、噴粉以及噴漆等表面處理。

SERVICE ADVANTAGE
服務優勢

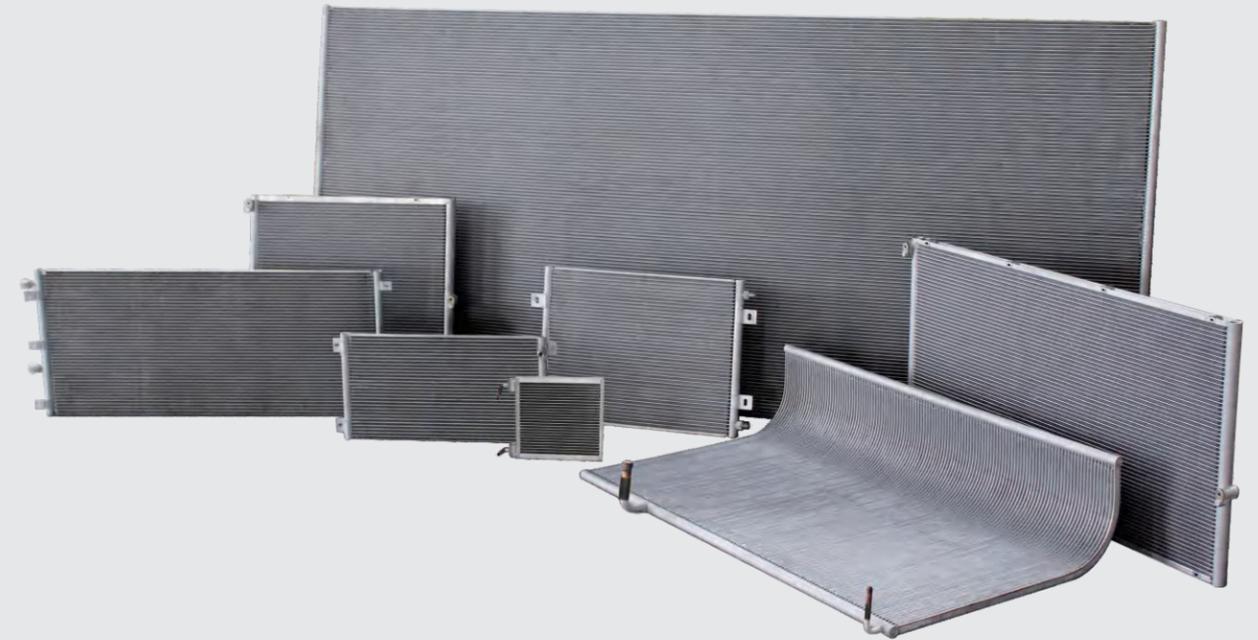
- Offer Customized Product.
- Offer products capacity simulation and products drawings design service.
- Response time is within 4 hours after receive the customer enquiry or complaints, and offer the reasonable solutions within 24 hours.
- Products production time normally within 10 to 15 days.
- 提供定制化產品。
- 提供產品性能模擬和圖紙設計服務。
- 收到客戶需求或者投訴4個小時內反應，24個小時內針對客戶提出需求或者投訴給出合理的解決方案。
- 產品交期，常規品10-15個工作天。

PRODUCTS

產品展示

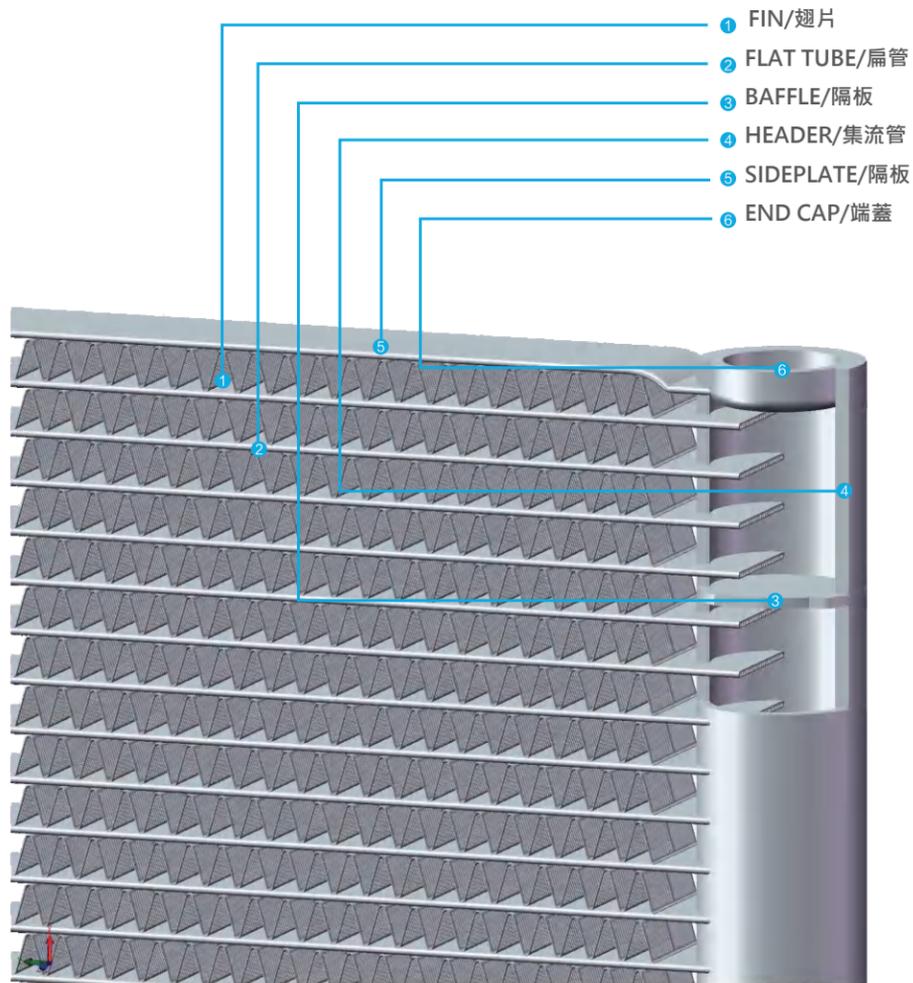
WITH SCIENTIFIC MANAGEMENT CONCEPT OF INNOVATION TO PROVIDE CUSTOMERS WITH QUALITY PRODUCTS AND SERVICES

以科學管理的創新理念為客戶提供優質產品與服務

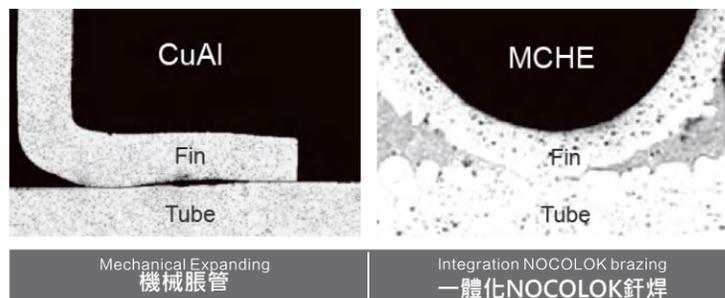


Micro channel heat exchanger suits for all kinds of normal refrigerant and new refrigerants.
微通道換熱器適用於各種常規制冷劑及新型制冷劑。

- Working pressure 工作壓力: 3.0Mpa-4.5Mpa(30bar-45bar).
Burst pressure 爆破壓力: 13.5Mpa(135bar).
Normal refrigerant 常規制冷劑 : R22,R134A,R404A,R407C,R410A,R600,R507A
New refrigerant 新型制冷劑 : R448A,R449A,R32,R290,R452 etc.
- Dry cooler for water or water and ethylene glycol mixture liquid.
乾冷器(水或水和乙二醇混合液).
Working pressure 工作壓力: 0.5Mpa-1Mpa(5bar-10bar).
Burst pressure 爆破壓力: 3.0Mpa-5.0Mpa(30bar-50bar).
- Can offer bending MCHE coils,L,U,C shape. 提供折彎產品L,U,C型。



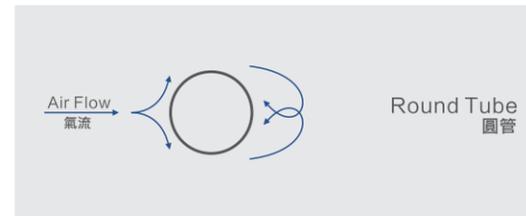
◆ MICRO CHANNEL HEAT EXCHANGER
◆ 微通道熱交換器



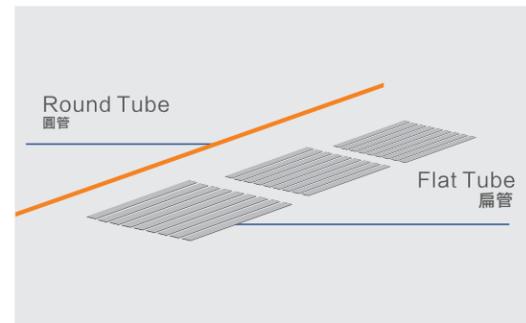
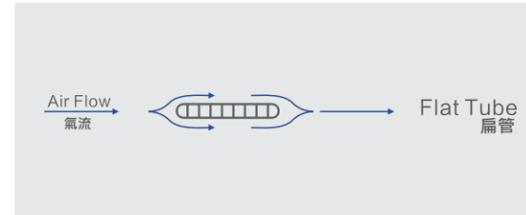
Integral NOCOLOK Brazing, low thermal contact resistance. Improve the heat transfer performance perfectly, AL-AL structure, without electric potential difference, high corrosion resistance.

一體化NOCOLOK釦焊焊接，翅片與鋁合金扁管冶金結合，接觸熱阻小，能顯著提高傳熱性，鋁扁管與翅片間，無電位差腐蝕，抗腐蝕強。

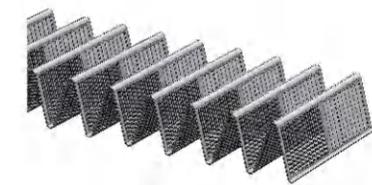
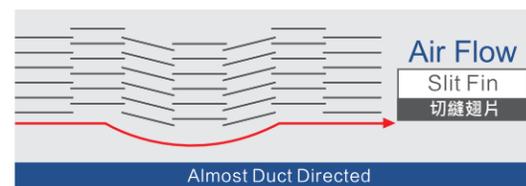
TECHNOLOGY OF MICRO CHANNEL HEAT EXCHANGER
◆ 微通道熱交換器技術



- Smaller diameter, more tube holes and larger internal surface intensify unit capacity as per volume.
- Small cross sectional area, low air flow resistance, small eddy area, low noise.
- 孔徑小·孔數多·內表面積大·單位體積換熱量大。
- 橫截面積小·慶流動阻力小·渦流區域小·噪音低。



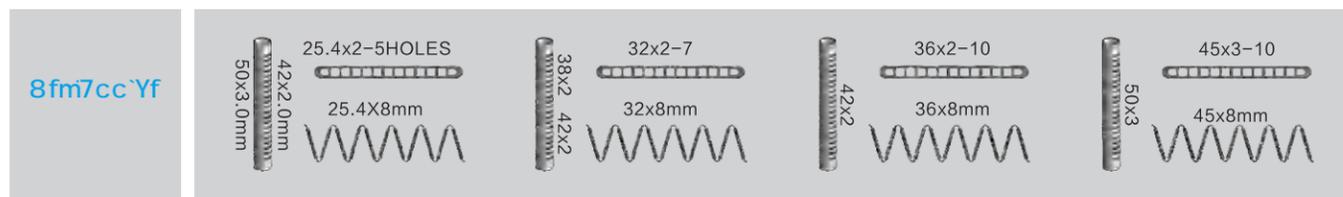
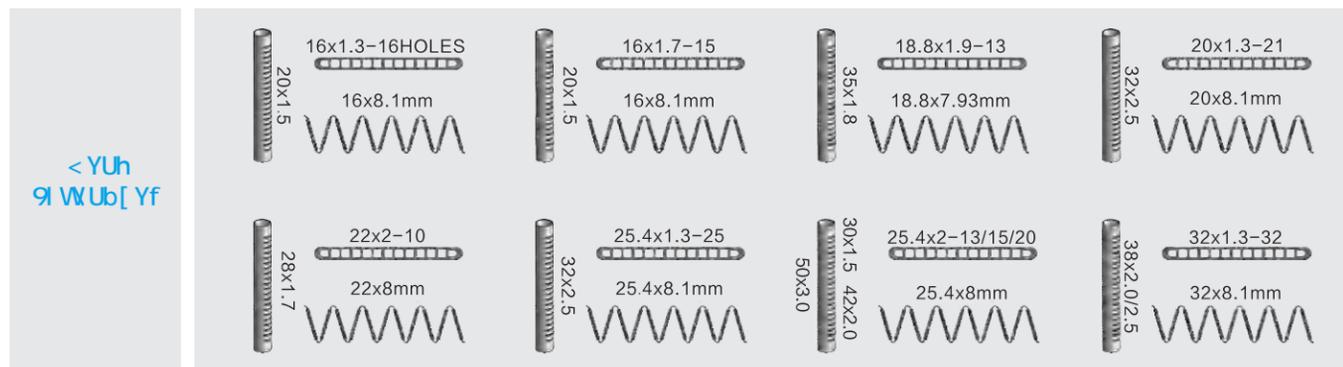
- Parallel arrangement of flat tubes enlarge refrigerant circulation area.
- Adjust the position and quantity of baffles to adapt to the refrigerant phase transition and optimize heat transfer and pressure drop.
- 多根扁管平行佈置，制劑流通面積大。
- 調整隔板位置和數量，優化傳熱和壓降。



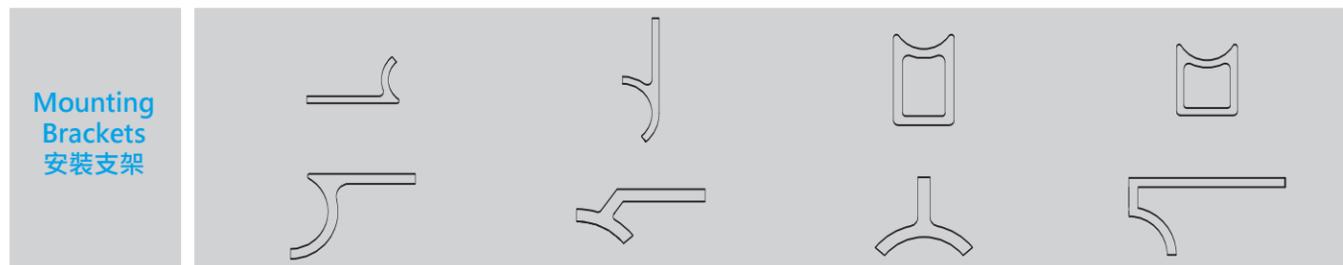
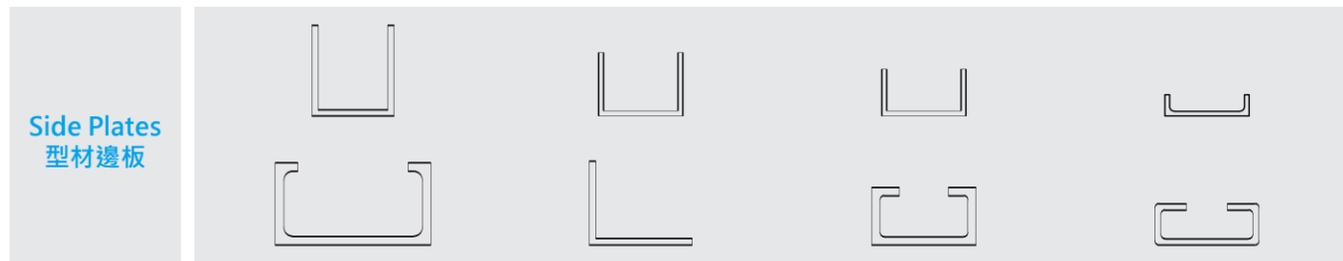
- The structure effectively breaks air thermal boundary layer, reduce heat exchanging resistance.
- Waving path makes the contact longer to intensify heat exchanging.
- 有效打破空氣熱邊界層，降低傳熱阻力。
- 空氣波浪路徑流動與翅片接觸時間長，強化傳熱。

A UHfjU	Flat tube 扁管	LLA3F03(9153)+Zn AA3102+Zn	Long life alloy Normal alloy	長壽命合金 常規合金
	Fin 翅片	AA4343/3003/4343		
	Header 集流管	AA4045/3003 AA4045/3005	Normal alloy High strength alloy	常規合金 高強度合金

LLA (Long Life Alloy) Material Coil SWAAT time can be more than 4000 hours.
長壽命管材質產品鹽霧試驗時間可以超過4000小時。



A variety of side plate and brackets suit for all kinds of installation.
各種不同邊板和支架可滿足各種形式的安裝。



TUBE CONNECTING TYPE ◆ 接管形式

Multiple ways of connection, easy for field connection.
多種連接方式，方便現場連接。

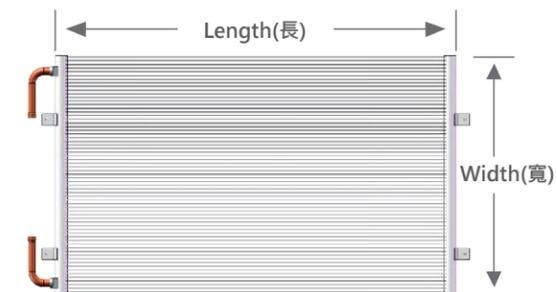


CU-AL welding parts is protected by heat shrinkable tube to avoid the corrosion potential difference.
銅鋁焊接點採用熱縮套保護，防止電位差腐蝕。



STRUCTURE PARAMETERS ◆ 結構參數

Various mould specification for flat tube and capacity choice: 0.8kw to 100kw for wide application area.
多種扁管翅片模具，覆蓋0.8KW到100KW的換熱量，適應各種應用領域。



Coil/芯體

Max.Product Dimension/最大產品尺寸

6000mm*1600mm (L*H)/236"*63"(L*H)

Min.Product Dimension/最小產品尺寸

80mm*80mm(L*H) /3.15"*3.15"(L*H)

Coil thickness from 12mm, 16mm....., 32mm, 36mm, 45mm.

COMMERCIAL AIR-CONDITIONER-AIR COOLED WATER CHILLER 商用空調-風冷冷水機組

Reduce the size of whole machine, easily installation and transportation, long using life and low cost.
能減少整機產品體積·方便安裝運輸·更長的使用壽命·成本低。

CONDENSING UNIT 冷凝機組

Widely used freezing and frozen storage, Such as cold room projects, ice maker, ice cream machine, food display, milk fresh and beer refrigeration etc.
廣泛應用於冷凍冷藏行業·冷庫工程·製冰機·冰淇淋機·展示櫃·牛奶綁先以及啤酒制冷等。

PRECISION DATA CENTER AIR-CON 精密機房空調

MCHE is with better dehumidification and refrigeration capacity, which can keep a better constant temperature and humidity effect, also with a low electric consumption, which is widely used in the world.
微通道有良好的除濕以及制冷能力·具有恆溫恆濕及耗電量低等特點·已被廣泛使用。

RAILWAY AIR-CON 軌道交通

APPLYING FIELD 應用領域

TRANSPORT REFRIGERATION 冷藏車

Light Weight Structure MCHE products has a good performance in the cold chain transport.
輕量化的結構使得產品在冷藏運輸中有著出色的表現。

TELECOMMUNICATION CONTROL AIR-CON 通訊控制

High energy efficiency, small size and low power consumption.
能效比高·體積小·耗電量低。

Reduce Size from 30%-50%
體積減少30%到50%

Weight Reduce 10%-60%
重量減輕10-60%

Cost Reduce 5%-40%
成本減少5%到40%

Refrigerant Charge Reduce more than 50%
制冷劑充注和使用減少50%以上

Fan Motor Consumption Reduce 50%
風機功耗減少50%

Compared with Cu-Al heat Exchanger. | 以上為跟傳統銅管換熱器比較。



COACH AND TRUCK AIR-CON
客車、卡車空調



AIR TO WATER HEAT PUMP
空氣源熱泵熱水器



NEW ENERGY THERMAL MANAGEMENT
新能源熱管理



MEDICAL EQUIPMENT
醫療機械



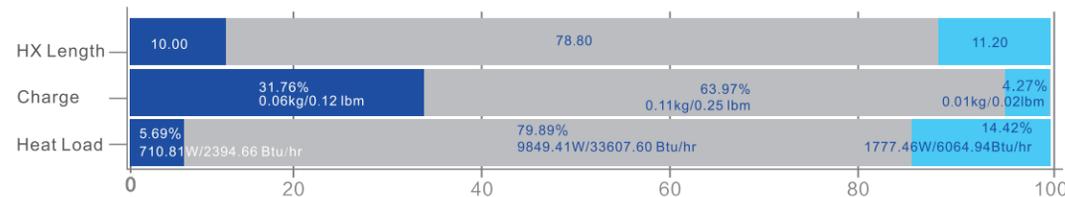
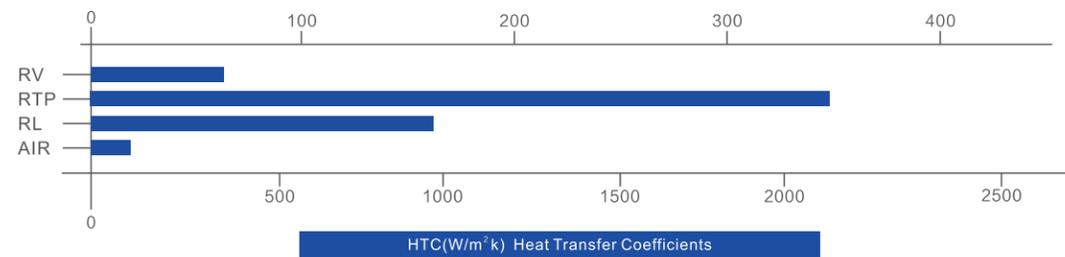
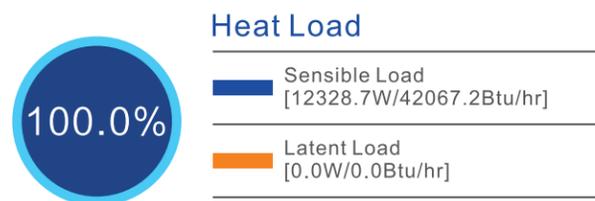
R&D EQUIPMENT

研發設備

- Products structure design based on CAE, optimize products thermal performance process, improve products R&D efficiency, reduce products design cost.
- Environmental simulation and thermal performance test ensure products function, mechanical strength and chemical composition analysis ensure product reliability.
- 計算機輔助設計產品結構·優化產品制冷劑傳熱流程·提高產品研發效率·降低設計成本·
- 環境模擬和熱工性能測試確保產品性能·機械強度和化學成份分析保證產品可靠性·

THERMAL PERFORMANCE DESIGN RESULTS

◆ 熱工性能設計結果



Refrigerant Phase-wise Distribution

■ Liquid ■ Two Phase ■ Vapor



- 1 Metallographic microscope
金相顯微鏡
- 2 Tensile Testing Machine
拉力試驗機
- 3 Thermal infrared imager
紅外熱像儀
- 4 Salt spray test chamber
鹽霧試驗箱
- 5 Automatic blasting station and pulse pressure test table
自動爆破脈沖試驗平台
- 6 Projector
投影儀





PRODUCTION EQUIPMENT

生產設備



HELIUM LEAK INSPECTION MACHINE

氦檢儀

Each of coil need helium inspection to ensure there is without any leak when customers get the goods.
每台產品發貨前100%氦檢，確保客戶收到無洩漏產品。



NOCOLOK BRAZING FURNACE

NOCOLOK鈎焊爐

Max. products dimension for 6000*1600mm for single coil. High Precision, High automation brazing machine to ensure the high quality products and order delivery timely rate.
最大的產品尺寸6000mm*1600mm。高精度、高自動化，能保證產品的品質和訂單交貨即時率。



FAST FIN FORMING MACHINE AND COIL AUTOMATIC ASSEMBLE TABLE

翅片快速成型機和自動組裝台

Fast fin forming and automatic assembling speed, with the good quality and high assembly consistency.
翅片成行和自動組裝速度快，裝備質量 and 一致性高。

A light gray world map serves as the background for the slide. A small white rectangular box is positioned over the Southeast Asian region of the map.

XUYO Will Be Your Best Choice 旋佑是您最好的選擇

-
- To create value for customers is our pursuit. Provide customer the most professional products and service.
 - 為客戶創造價值並提供專業的產品與服務是我們的追求。