Zhejiang SunCo Heat Exchange System Co.,LTD. 浙江三可热交换系统有限公司

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SunGo







Zhejiang SunCo Heat Exchange System Co., Ltd. is specialized in R&D, production and sales of micro channel heat exchanger (MCHE). The company is located at Zhuji city, Zhejiang Province. Company adhering to the "innovation, integrity, leading, cooperation" business concepts, In way of comprehensively introducing ISO9001&IATF16949quality management system, with an excellent R&D team, reliable products quality and high efficient service to target the markets.

Company has strong design and development capability, specializes in designing many fields of air conditioning system, heat pipe heat exchange system. Involved a variety Industries, such as, bus, tel-communications, commercial and industry refrigeration, frozen storage, rail transportation, wood drying, high-voltage substation, aerospace, etc. SunCo technology has won customers deep trust.

The company already has a number of invention patents and utility model patents, and was invited to become one of "Micro channel heat exchanger for condenser used for air conditioning and refrigeration equipment" national standard drafting units. With excellent management team and leading technology, the products have been exported to Europe, South America, North America, Southeast Asia and Oceania, etc.

"Create value for customers" is the company's pursuing goal, with the continuous promotion and application of micro channel technology, we will provide a wide field with high efficiency, low carbon environmental protection products and excellent service.

浙江三可热交换系统有限公司是一家专业研发、生产、销售微通道换热器系列产品的公司。公司位于美丽的西施故里——浙江省诸暨市,公司秉承"创新、诚信、领先、合作"的经营理念,全面导入IS09001、IATF16949质量管理体系,以优秀的设计团队,可信赖的产品质量,高效的服务面向市场。

公司技术团队具备较强的设计开发能力,擅长多种领域的空调系统、热管系统换热器的设计,涉及行业包括大巴空调、通讯、轻商、冷冻冷藏、轨道交通、木材干燥、高压变电、航空航天等,技术能力深受客户信赖。

目前公司已拥有多项发明专利和实用新型专利,并受邀成为《冷冻空调设备冷凝器用微通道热交换器》国家标准起草单位之一。凭借优秀的管理团队与领先的技术水平,目前公司产品已经远销欧洲、南美洲、北美洲、东南亚、大洋洲等。

"为客户创造价值"是公司永恒追求的目标,随着微通道技术的不断推广与应用,我们将为更广泛领域提供高效、低碳环保的产品和优质的服务。

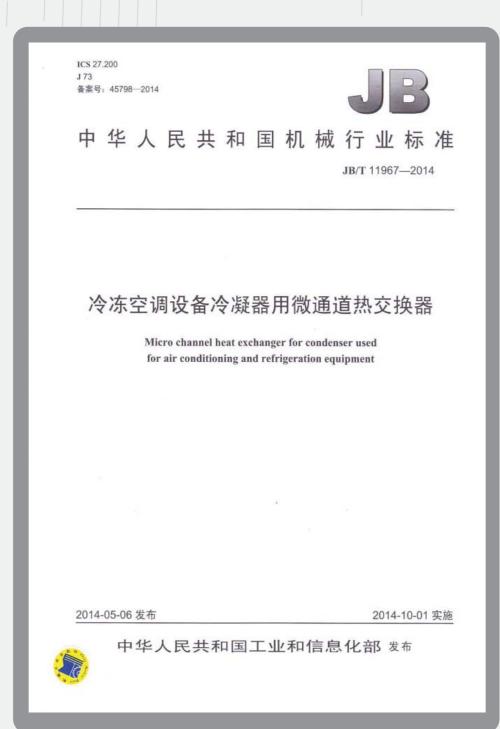




HONOR CERTIFICATE





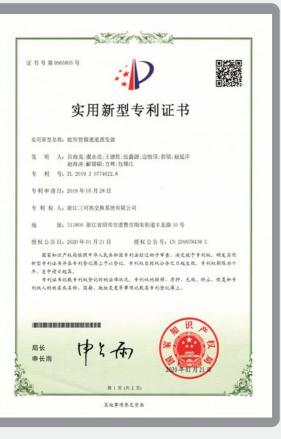












































ENTERPRISE CULTURE

Business tenet 经营宗旨 Reliable technology 可靠的技术

Trustworthy quality 可靠的质量

Honest service 可靠的服务

Quality policy 质量方针

开拓创新求发展 Creating brand through scientific management

Seeking development relying on innovation

科学管理创品牌

Providing best service for customers 优质服务为顾客

Management concept 经营理念

Innovation Honesty

诚信

Leading 领先

Cooperating 合作





BUSINESS ADVANTAGE

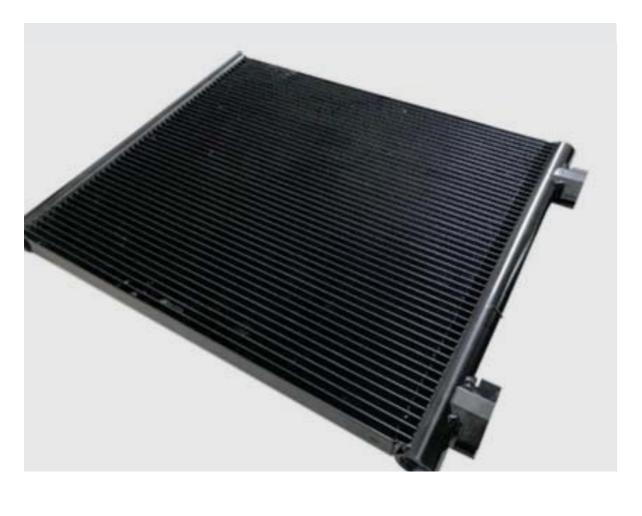
企业优势



TECHNOLOGY ADVANTAGE

技术优势

- SunCo is one of the China MCHE industry "national standard" drafting units.
- With a 15 engineers R&D team, 75% of them with 5 year MCHE industry experience.
- With more than 20 items MCHE invention patents and utility patents.
- 三可是中国微通道换热器国家标准的起草单位之一。
- 公司拥有一个15人的设计研发团队, 其中75%以上有5年以上的微通道行业工作经验。
- 拥有超过20项的发明专利和实用专利。



PRODUCTS ADVANTAGE

产品优势

- Product is with CE, UL, ROHS certificate.
- 100% of the products must pass the helium leak inspection before delivery.
- Products can be E-coating, Dacromet, Surface passivation, Epoxy,
 Powder Spraying or Painting surface treatment.
- 产品有CE,UL 认证。
- 100%产品出货前必须氦检。
- 可以提供电泳、达克罗、表面钝化、环氧树脂,喷粉以及喷漆等表面处理。

SERVICE ADVANTAGE 服务优势

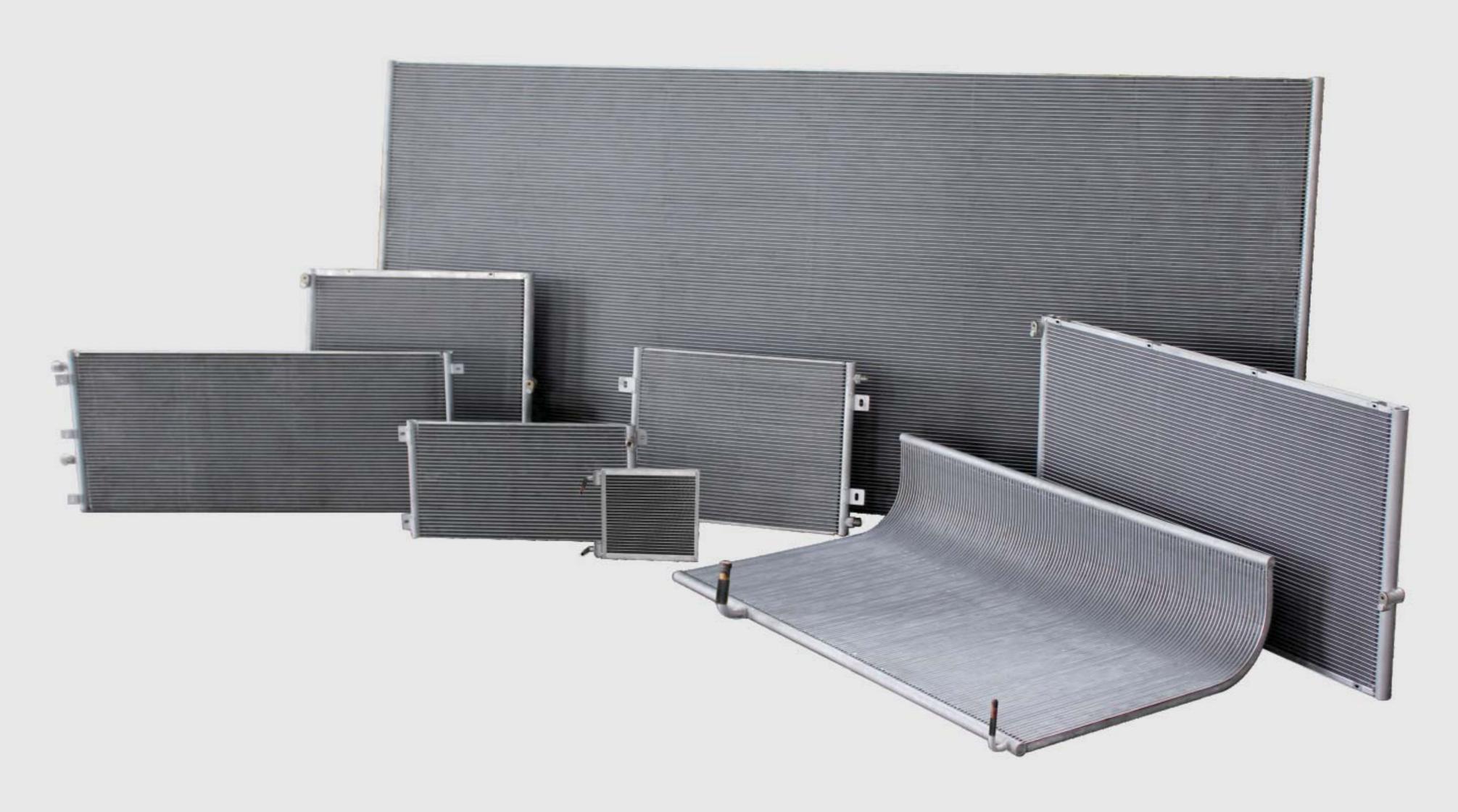


PRODUCTS

产品展示

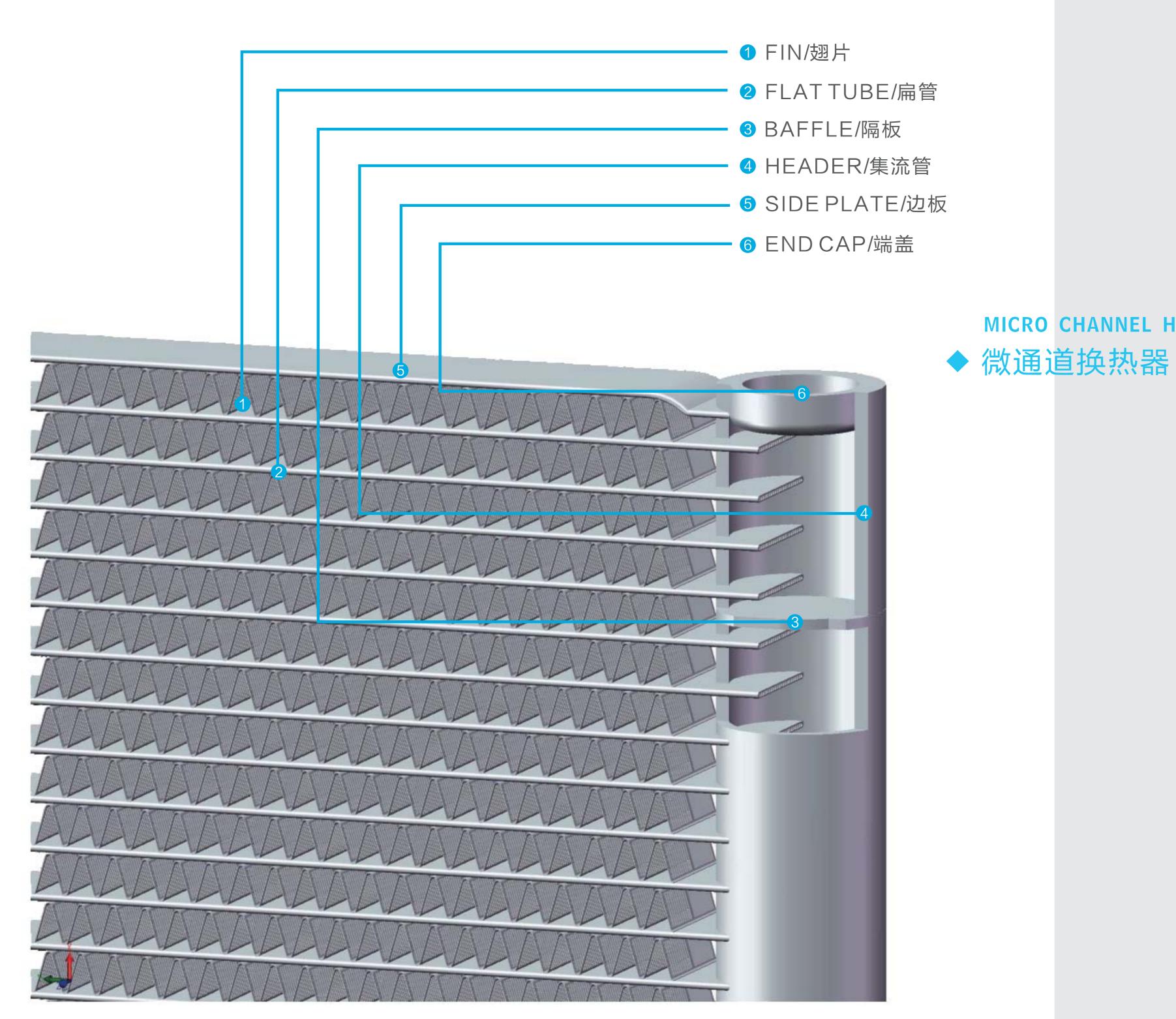
WITH SCIENTIFIC MANAGEMENT CONCEPT OF INNOVATION TO PROVIDE CUSTOMERS WITH QUALITY PRODUCTS AND SERVICES

以科学管理的创新理念为客户提供优质产品及服务

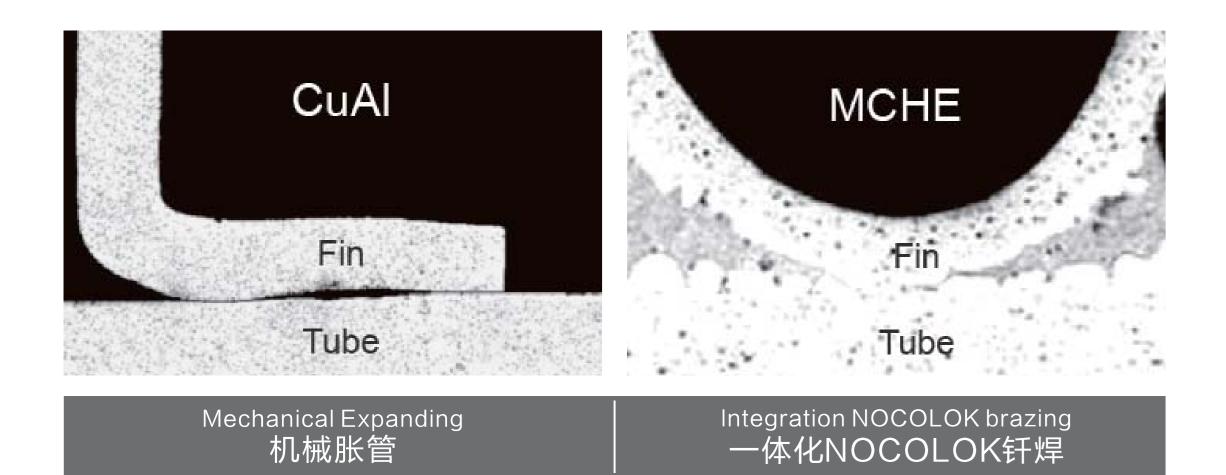


Micro channel heat exchanger suits for all kinds of normal refrigerant and new refrigerants. 微通道换热器适用于各种常规制冷剂和新型制冷剂。

- Working pressure 工作压力: 3.0Mpa-4.5Mpa (30bar-45bar).
 Burst pressure 爆破压力: 13.5Mpa (135bar).
 Normal refrigerant 常规制冷剂: R22, R134A, R404A, R407C, R410A, R600, R507A etc.
 New refrigerant 新型制冷剂: R448A, R449A, R32, R290, R452 etc.
- Dry cooler for water or water and ethylene glycol mixture liquid.
 干冷器(水或水和乙二醇的混合液).
 Working Pressure工作压力: 0.5Mpa-1Mpa (5bar–10bar).
 Burst Pressure爆破压力: 3.0Mpa-5.0Mpa (30bar–50bar).
- SunCo can offer bending MCHE coils, L, U, C shape. 三可提供折弯产品L, U, C型。



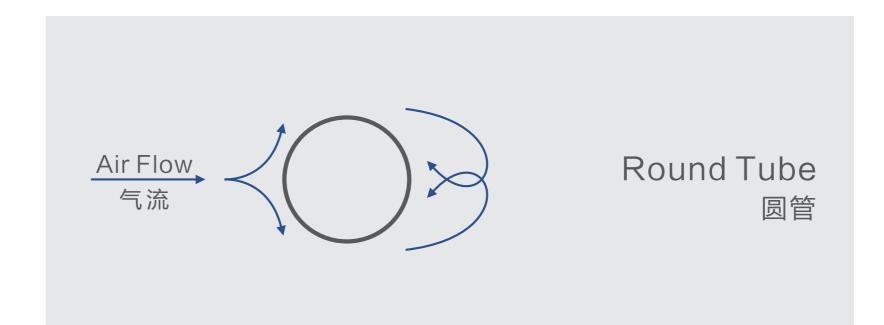
MICRO CHANNEL HEAT EXCHANGER

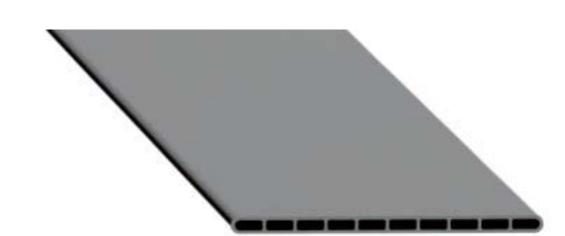


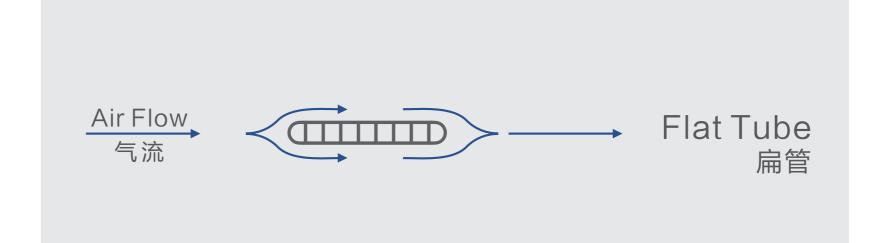
Integral NOCOLOK Brazing, low thermal contact resistance. Improve the heat transfer performance perfectly, AL-AL structure, without electric potential difference, high corrosion resistance.

一体化NOCOLOK 钎焊焊接,翅片与铝合金扁管 冶金结合,接触热阻小,能显著提高传热性,铝扁 管与铝翅片间,无电位差腐蚀,抗腐蚀性强。

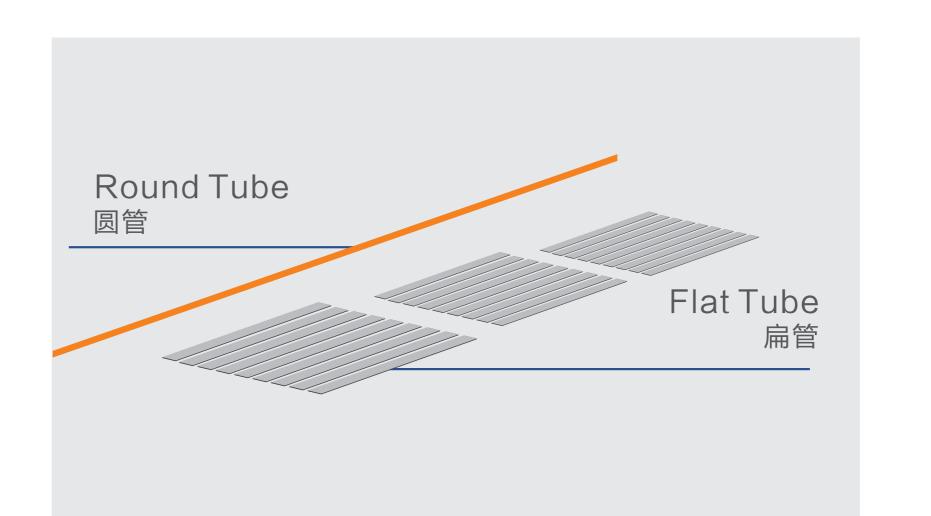
TECHNOLOGY OF MICRO CHANNEL HEAT EXCHANGER ◆ 微通道换热器技术







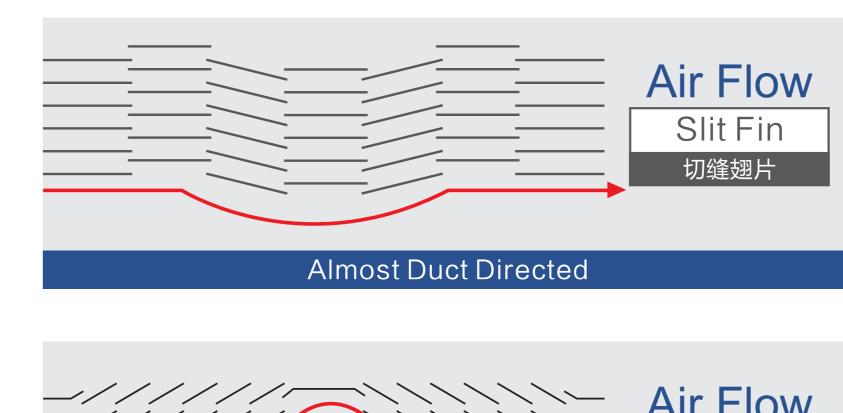
- Smaller diameter, more tube holes and larger internal surface intensify unit capacity as per volume.
- Small cross sectional area, low air flow resistance, small eddy area, low noise.
- 孔径小,孔数多,内表面积大,单位体积换热量大。
- 横截面积小,空气流动阻力小,涡流区域小,噪音低。



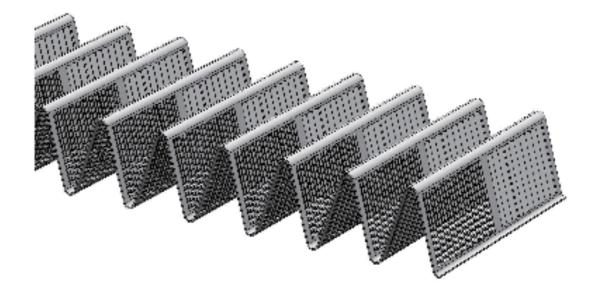


- Parallel arrangement of flat tubes enlarge refrigerant circulation
- Adjust the position and quantity of baffles to adapt to the refrigerant phase transition and optimize heat transfer and pressure drop.
- 多根扁管平行布置,制冷剂流通面积大。

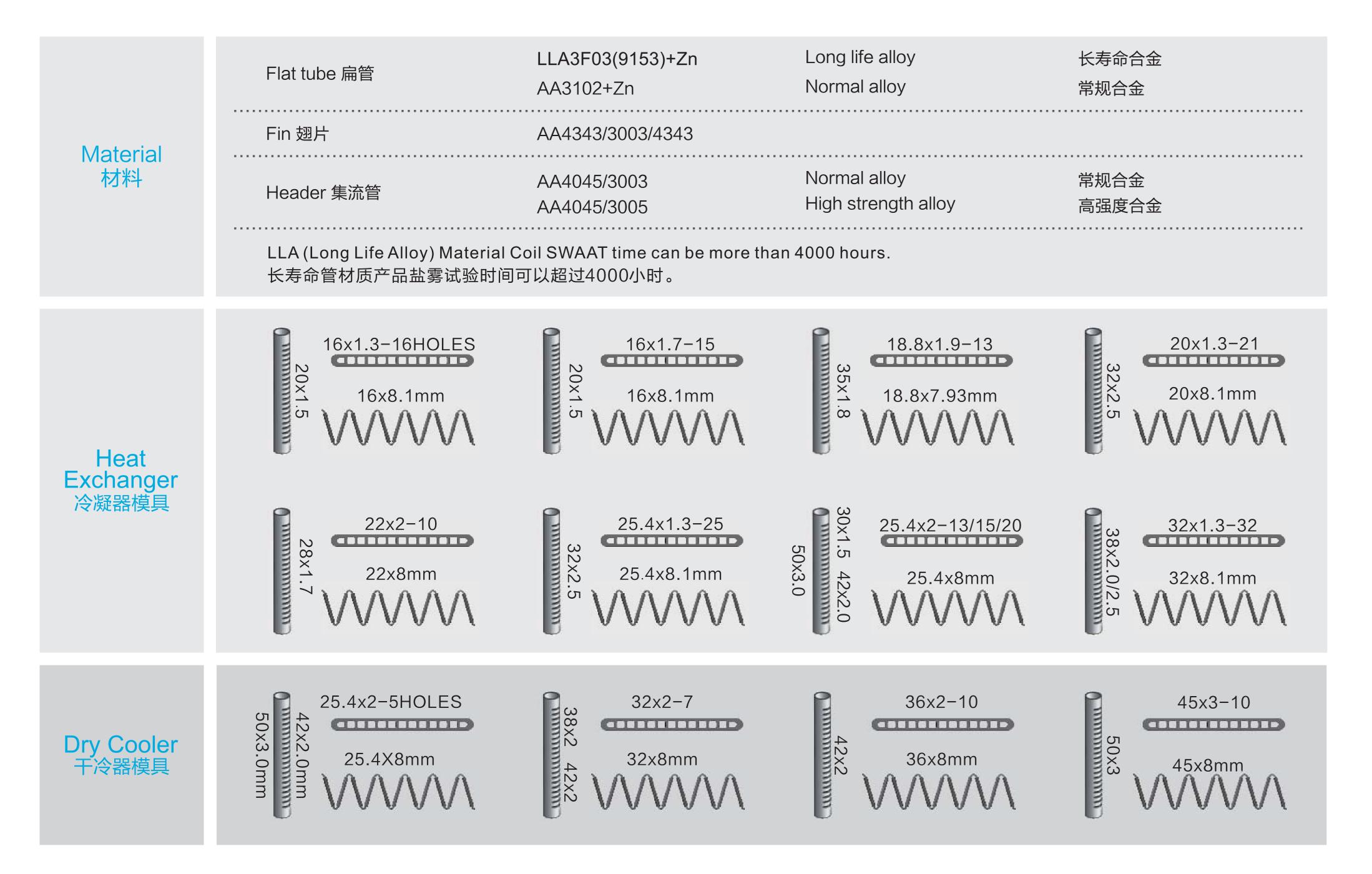
● 调整隔板位置和数量,优化传热和压降。



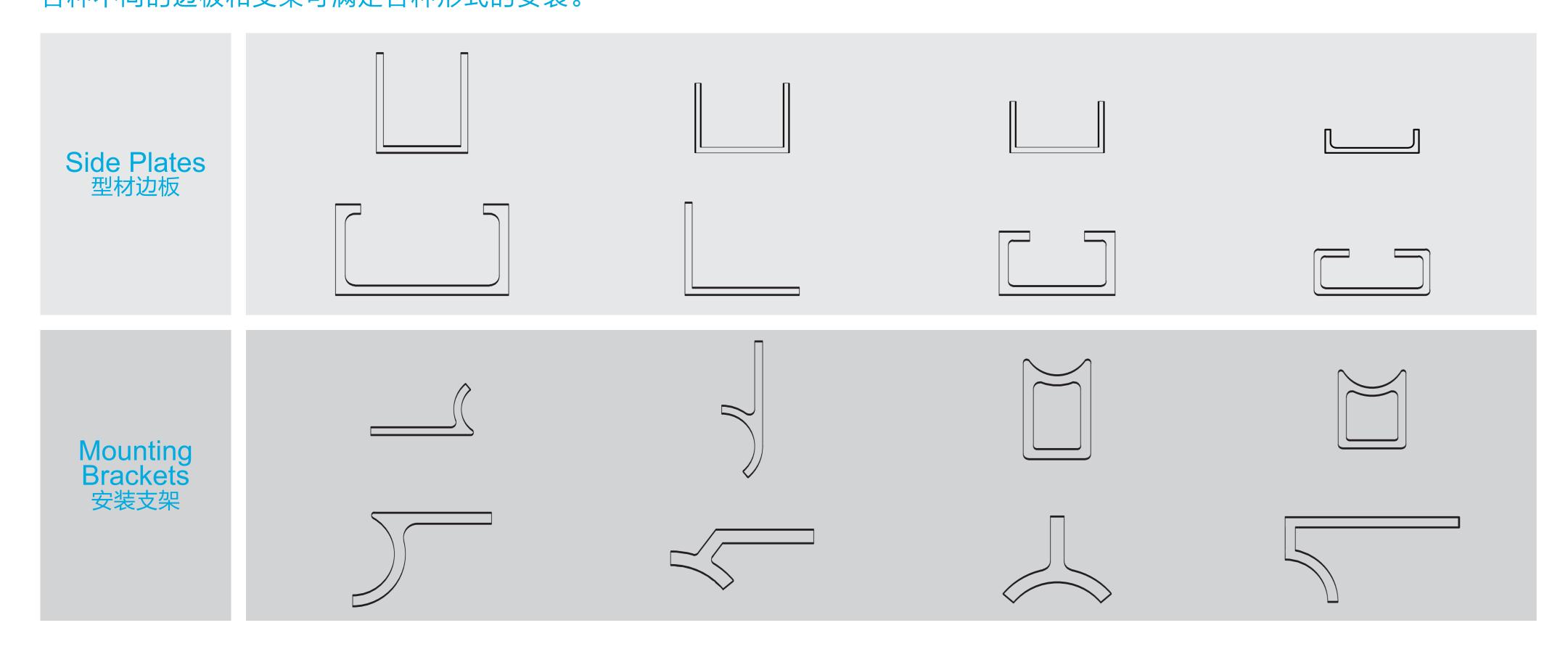




- The structure effectively breaks air thermal boundary layer, reduce heat exchanging resistance.
- Waving path makes the contact longer to intensify heat exchanging.
- 有效打破空气热边界层,降低传热阻力。
- 空气波浪路径流动与翅片接触时间长,强化传热。



A variety of side plate and brackets suit for all kinds of installation. 各种不同的边板和支架可满足各种形式的安装。



SunCo with more than 30 kinds different specification main material for heat exchanger and dry cooler. 三可有超过 30种不同的主材微通道换热器规格。

TUBE CONNECTING TYPE

◆ 接管形式

Multiple ways of connection, easy for field connection. 多种连接方式,方便现场连接。







CU-AL welding parts is protected by heat shrinkable tube to avoid the corrosion potential difference. 铜铝焊接点采用热缩套保护,防止电位差腐蚀。

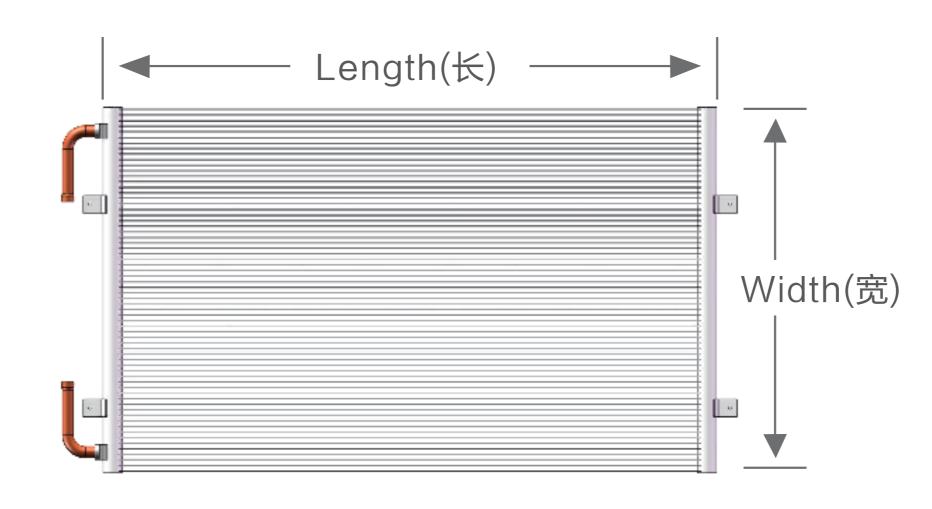




STRUCTURE PARAMETERS

◆ 结构参数

Various mould specification for flat tube and capacity choice: 0.8kw to 100kw for wide application area. 多种扁管和翅片模具,覆盖0.8KW到100KW的换热量,适应各种应用领域。



Coil/芯体

Max.Product Dimension/最大产品尺寸
6000mm*1600mm (L*H)/236"*63"(L*H)

Min.Product Dimension/最小产品尺寸
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 商用空调-风冷冷水机组

Reduce the size of whole machine, easily installation and transportation, long using life and low cost. 能减小整机产品体积,方便安装和运输,更长的使用寿命,成 本低。

CONDENSING UNIT 冷凝机组

Widely used freezing and frozen storage, Such as cold room projects, ice maker, ice cream machine, food display, milk fresh and beer refrigeration etc.

广泛应用于冷冻冷藏行业,冷库工程,制冰机,冰淇淋机,展 示柜, 牛奶保鲜以及啤酒制冷等。



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.

微通道有良好的除湿以及制冷能力, 具有恒温恒湿及耗电量低等 特点,已被广泛使用。

RAILWAY AIR-CON 轨道交通

SunCo is the first supplier for railway air-conditioner in china domestic markets, offer the bulk order MCHE to a number of famous brand companies, such as Faiveley etc.

SunCo是中国国内第一家为列车空调提供微通道换热器的企业, 目前已为法维莱等大批国际知名企业批量供货。



COACH AND TRUCK AIR-CON 客车,卡车空调



AIR TO WATER HEAT PUMP 空气源热泵热水器



NEW ENERGY THERMAL MANAGEMENT 新能源热管理



MEDICAL EQUIPMENT 医疗机械

APPLYING FIELD 应用领域

TRANSPORT REFRIGERATION 冷藏车

Light Weight Structure MCHE products has a good performance in the cold chain transport.

轻量化的结构使得产品在冷藏运输中有着出色的表

TELECOMMUNICATION CONTROL AIR-CON

High energy efficiency, small size and low power

consumption. 能效比高,体积小,耗电量低。

30%-50% Reduce Size from 体积减小30%到50%

Weight Reduce 重量减轻10-60%

通讯控制

10%–60%

Cost Reduce 成本减少5% 到40%

SunCo

5%-40%

Refrigerant Charge Fan Motor Consumption Reduce Reduce more than 制冷剂充注和使用减少50%以上 风机功耗减少50%

Compared with Cu-Al heat Exchanger. 以上是跟传统铜管换热器对比。





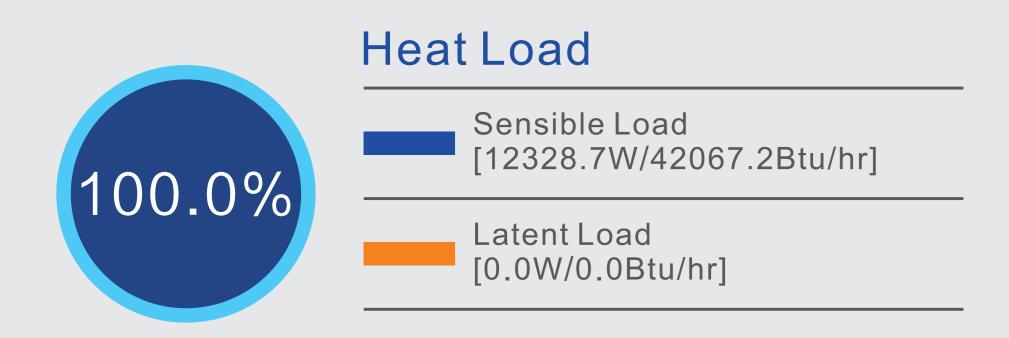
R&D EQUIPMENT

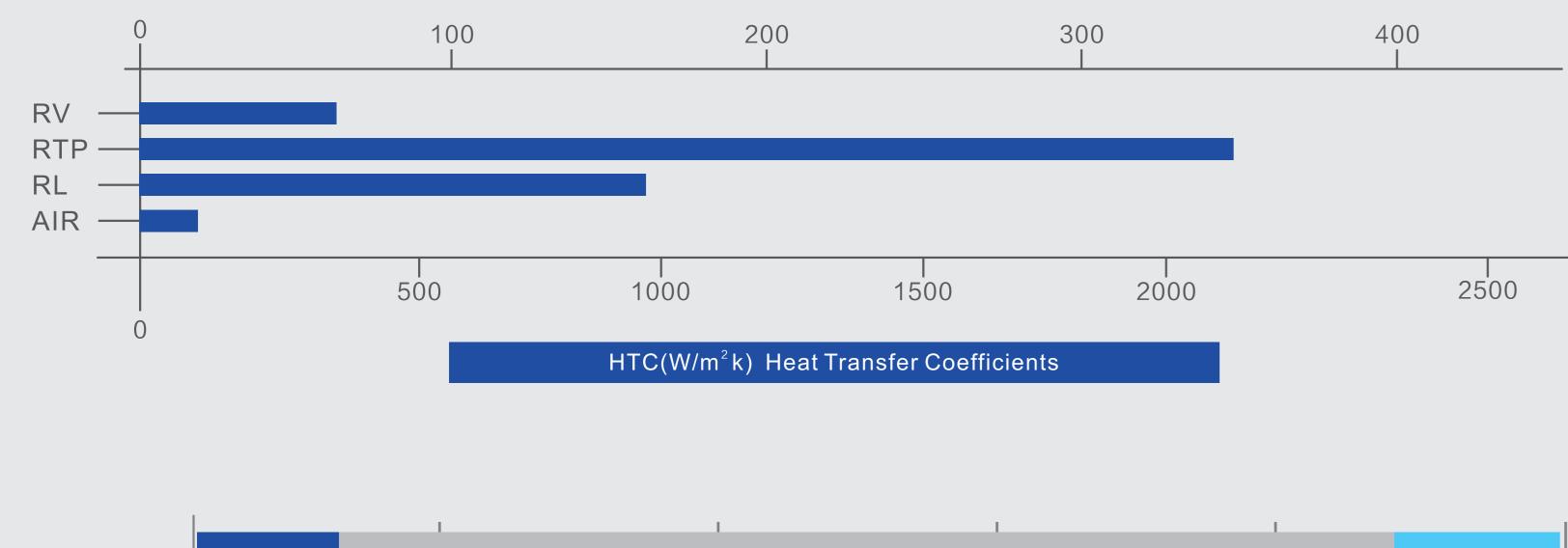
研发设备

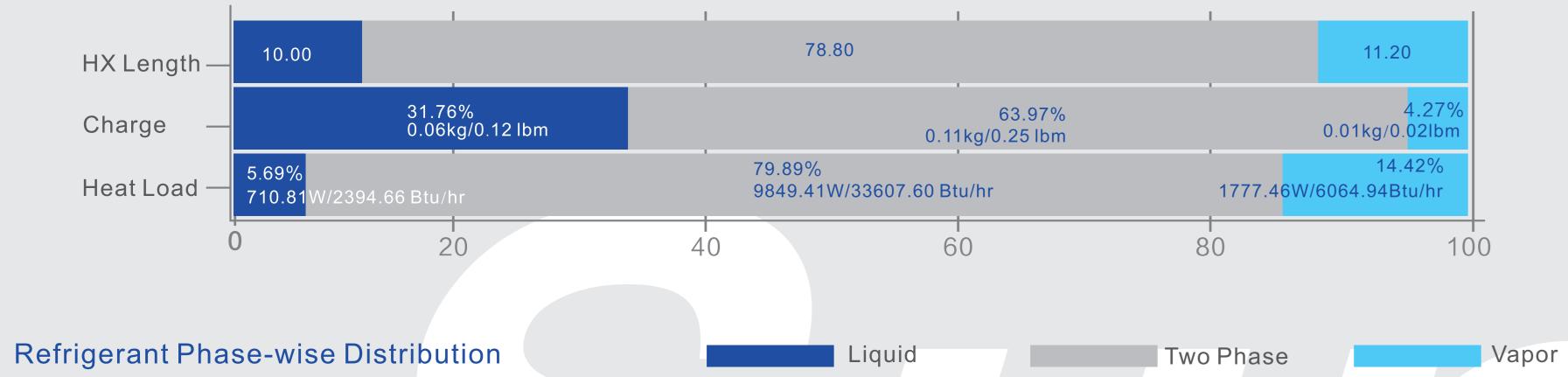
- Products structure design based on CAE, optimize products thermal performance process, improve products R&D efficiency, reduce products design cost.
- efficiency, reduce products design cost.
 Environmental simulation and thermal performance test ensure products function, mechanical strength and chemic al composition analysis ensure product reliability.
- 计算机辅助设计产品结构,优化产品制冷剂传热流程,提高了产品研发效率,降低了产品设计成本。
- 环境模拟和热工性能测试确保产品的性能,机械强度和化学成份分析保证产品的可靠性。

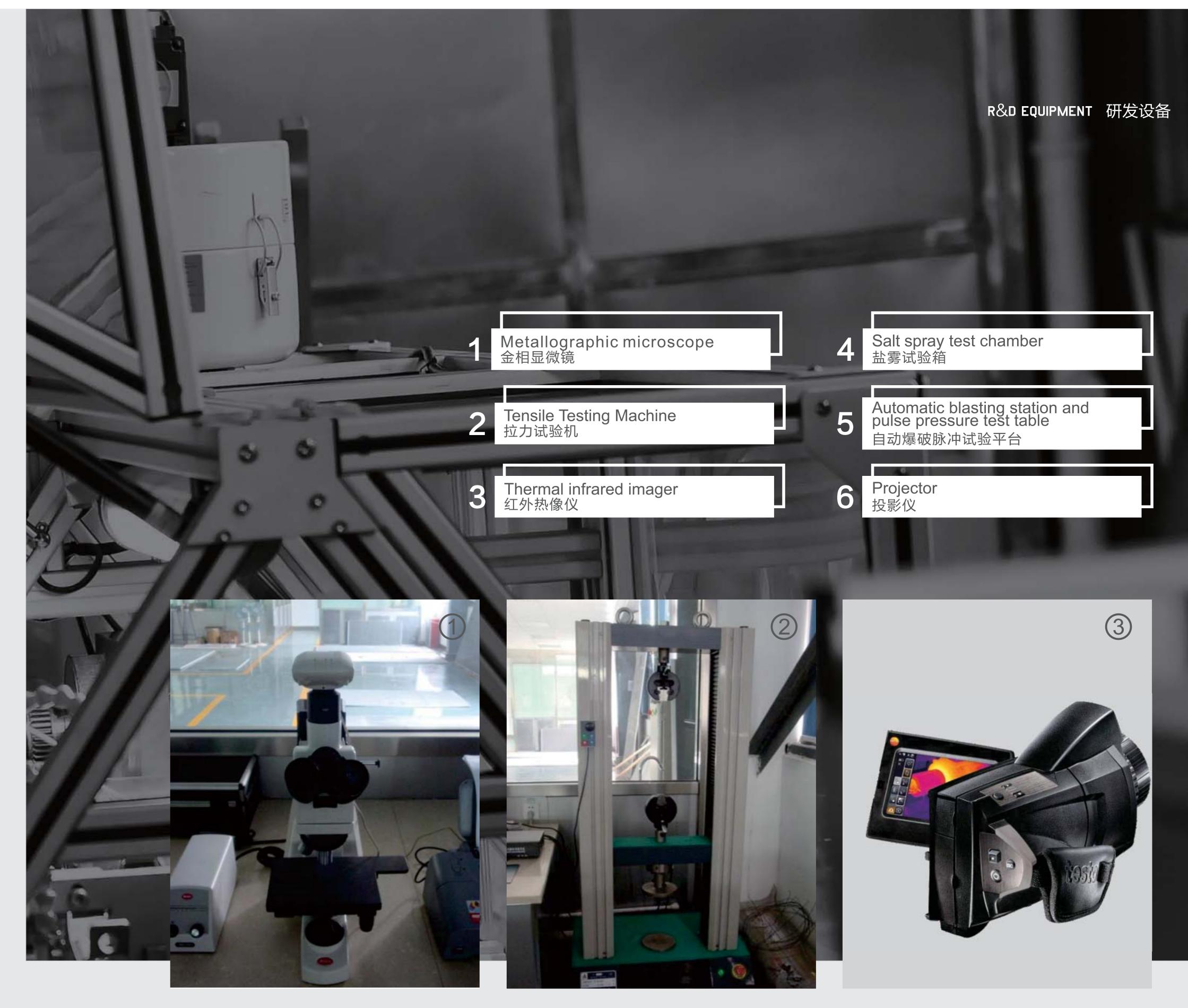
Thermal performance design results

◆热工性能设计结果



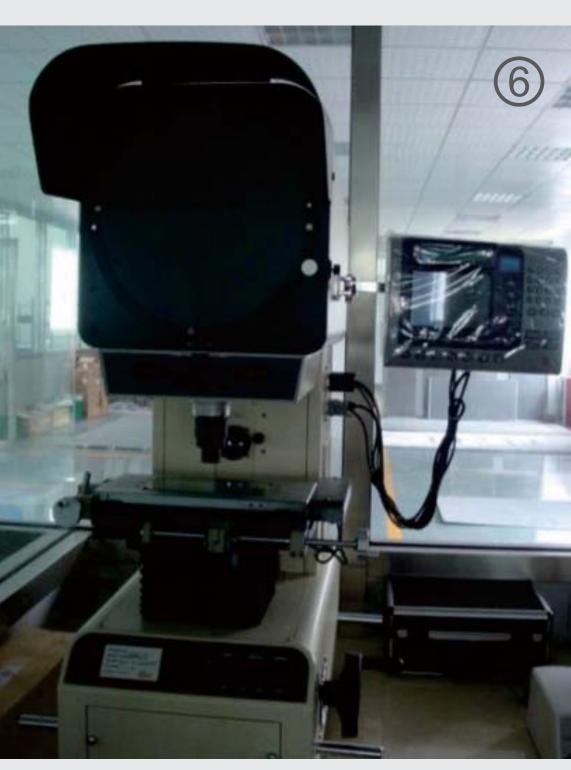












We cooperate with one of the best refrigeration labs in china--Shanghai Jiaotong Unitersity lab for parts of the test, Such as the real refrigeration capacity test and vibration test etc.
部分测试如性能测试以及震动测试与中国上海交通大学实验室合作。



PRODUCTION EQUIPMENT

生产设备





HELIUM LEAK INSPECTION MACHINE 氦检仪

Each of coil need helium inspection to ensure there is without any leak when customers get the goods. 每台产品发货前100%氦检,确保客户收到无泄漏产品。



NOCOLOK BRAZING FURNACE NOCOLOK 钎焊炉

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.

最大的产品尺寸6000mm*1600mm。高精度,高自动化, 能保证产品的品质和订单交货及时率。



FAST FIN FORMING MACHINE AND COIL AUTOMATIC ASSEMBLE TABLE 翅片快速成型机和自动组装台

Fast fin forming and automatic assembling speed, with the good quality and high assembly consistency. 翅片成型和自动组装速度快, 装配质量和一致性高。



SunCo Will Be Your Best Choice

三可是您最好的选择

- To create value for customers is our pursuit. Provide customer the most professional products and service.
- 为客户创造价值是我们的追求,为客户提供专业的产品和服务。
- Based on professional technology and reliable products quality, SunCo has offered products to 270 customers in 30 countries and areas.
- 凭借专业的技术优势和可信赖的产品品质,SunCo已为全球超过30个国家和地区270多家客户提 供产品和服务。



Canada

South Africa

Australia

Africa:

Oceania:



Mexico

WE HAVE MORE THAN 30 COUNTRIES AND REGIONS OVERSEA CUSTOMERS!

*

New Zealand

我们有超过30个国家和地域的客户!