

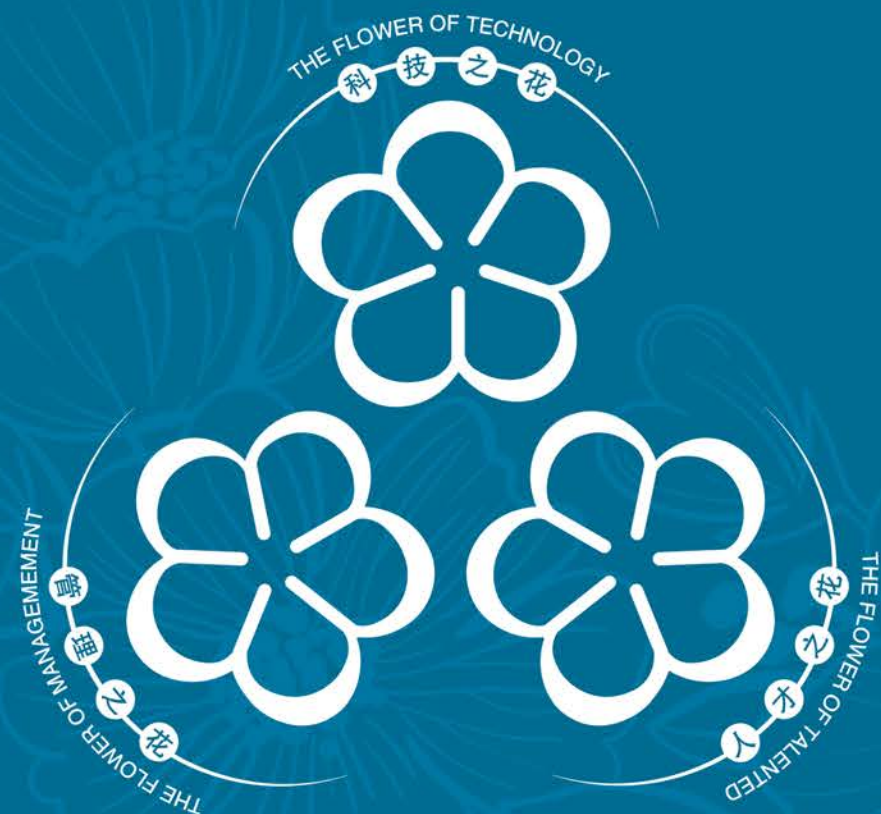
**杭州三花微通道换热器有限公司**  
SANHUA (HANGZHOU) MICRO CHANNEL HEAT EXCHANGER CO.,LTD.

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# 管理之花 · 科技之花 · 人才之花

THE FLOWER OF TECHNOLOGY · THE FLOWER OF MANAGEMENT · THE FLOWER OF TALENTED



# CATALOG

## 视环保为己任

ENVIRONMENTALLY AND SOCIALLY RESPONSIBLE

Facing the challenge of Climate Change, Sanhua offers the best solution with the finest balance of energy efficiency, reliability and overall cost.

## 迅速反应、立即行动

QUICK RESPONSE AND IMMEDIATE ACTION

Sanhua style shows clearly with orientation of customer and market, and the quickest solution with immediate response

## 精益求精、追求卓越

CONTINUOUS IMPROVEMENT AND PURSUIT OF EXCELLENCE

Innovation is the key component of the Sanhua's enterprise culture. The essence of "Keep moving and self-surpassing, pursuing excellence" is to make every aspect of management reasonable and standardized through constant innovation and surpassing, so that it will continually develop.

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SANHUAMC

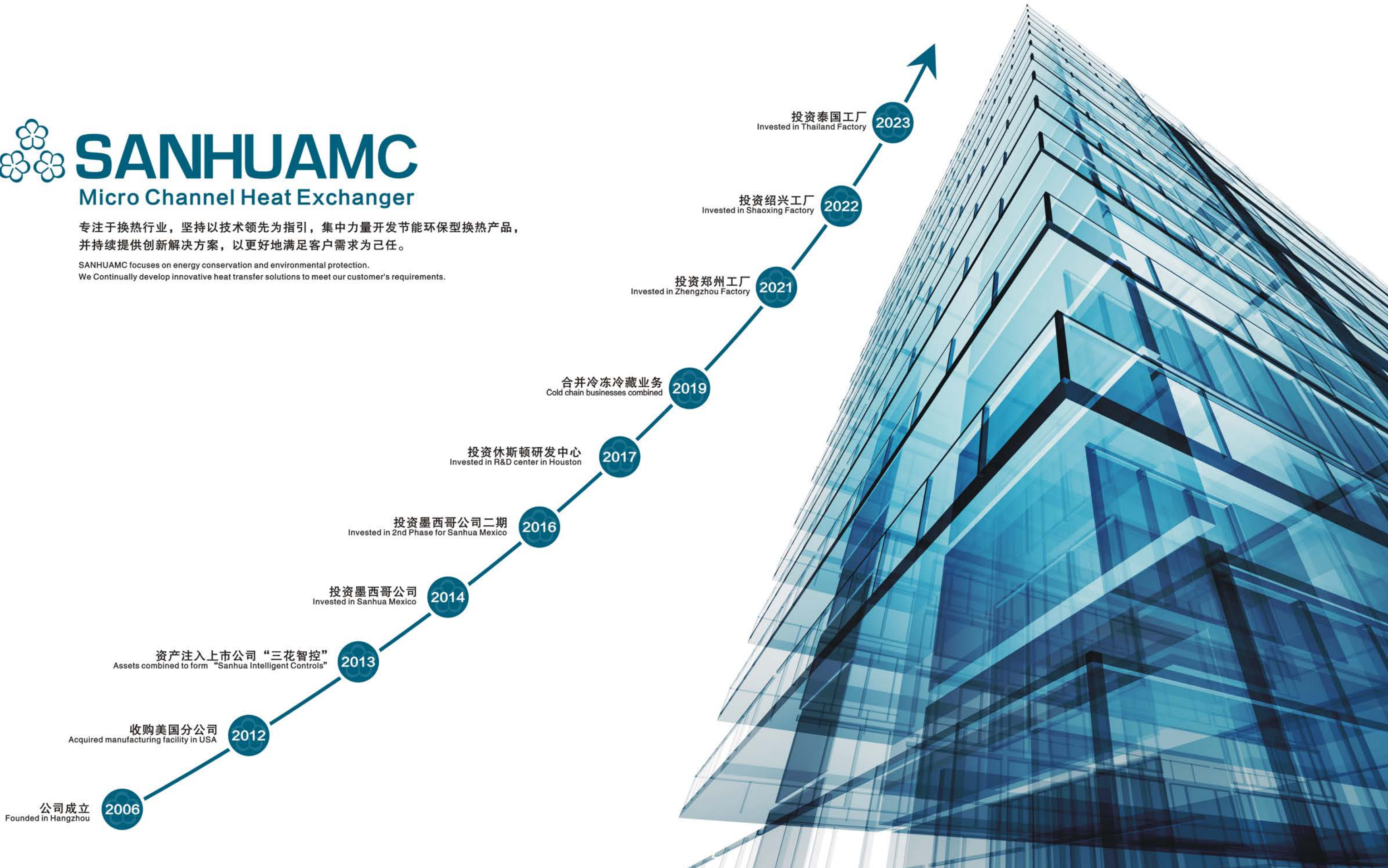


# SANHUAMC

## Micro Channel Heat Exchanger

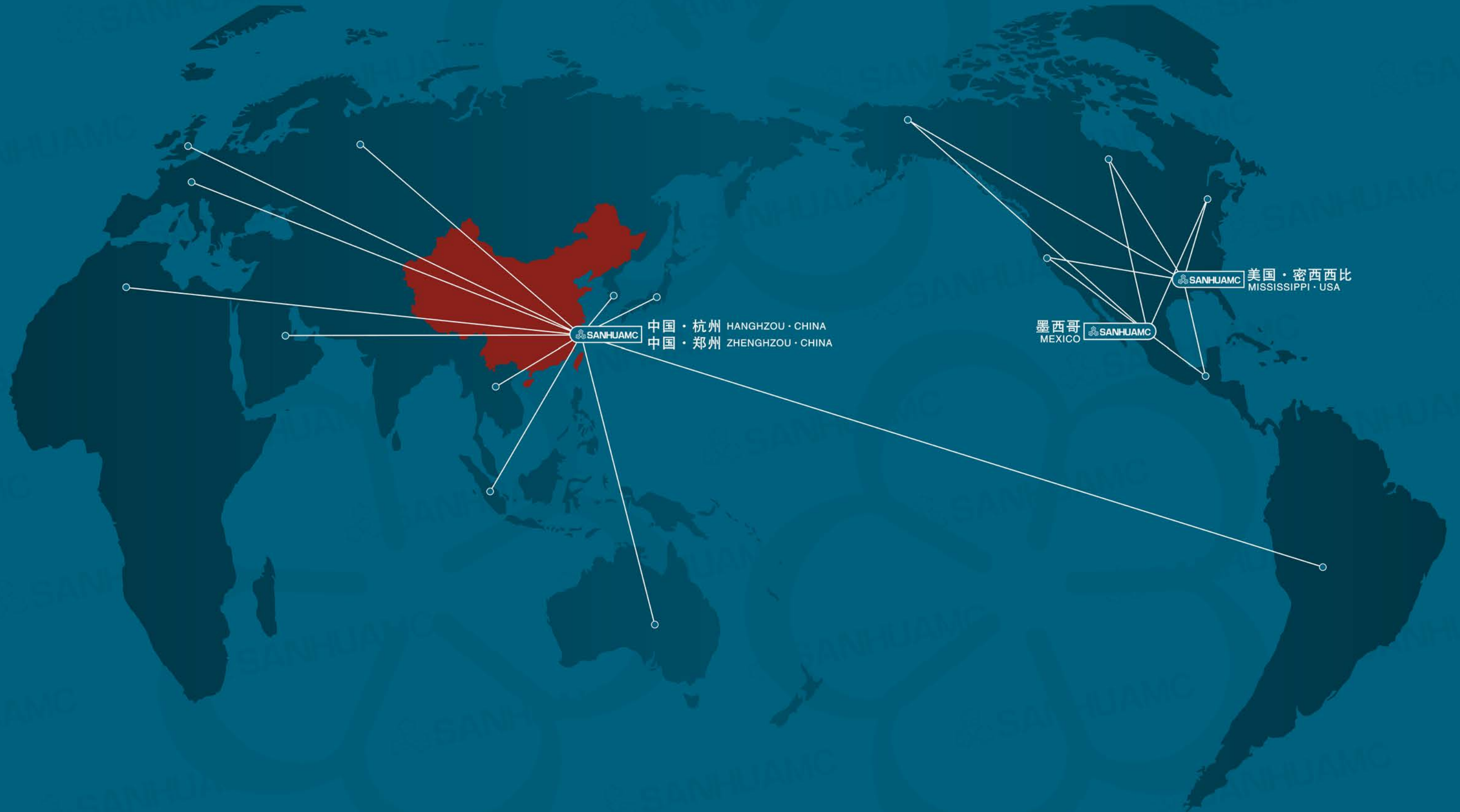
专注于换热行业，坚持以技术领先为指引，集中力量开发节能环保型换热产品，并持续提供创新解决方案，以更好地满足客户需求为己任。

SANHUAMC focuses on energy conservation and environmental protection. We continually develop innovative heat transfer solutions to meet our customer's requirements.





全球业务范围  
GLOBAL BUSINESS





**研发实力**  
R&D CAPABILITY

我们提供：换热器及空调性能测试 原材料分析与测试 产品可靠性分析

Our lab capabilities include:

Performance testing of HVAC units and controls, material testing and analysis, reliability testing and analysis.

三花微通道实验中心拥有12个各型盐雾箱，行业独有的积灰试验台，以及换热器内腐蚀试验台/振动台/周期浸润试验台/拉力试验机/压力脉冲测试台/温度箱等各式不同的可靠性实验设备，满足不同验证要求。

Sanhua micro channel has 12 different salt spray chambers, plus an industry exclusive dust loading test platform. Additional resources include corrosion, vibration, pressure fatigue, and cyclic infiltration test facilities. Also, material test platforms are available.



获得CNAS认证，  
实验中心出具的监测数据  
具备国际权威性并得到国际互认

Our test center is accredited to ISO 17025  
international standard by CNAS



杭州研究中心  
R&D Center in Hangzhou

休斯顿研究中心  
R&D Center in Houston

**证书专利**  
CERTIFICATE & PATENTS

三花微通道目前已拥有国内专利380余项，国外专利70余项

(数据统计截止2023年2月28日)

SANHUAMC has more than 380 domestic patents and 70 foreign patents



PED Certification

KHK Certification

UL Certification

ISO 14001

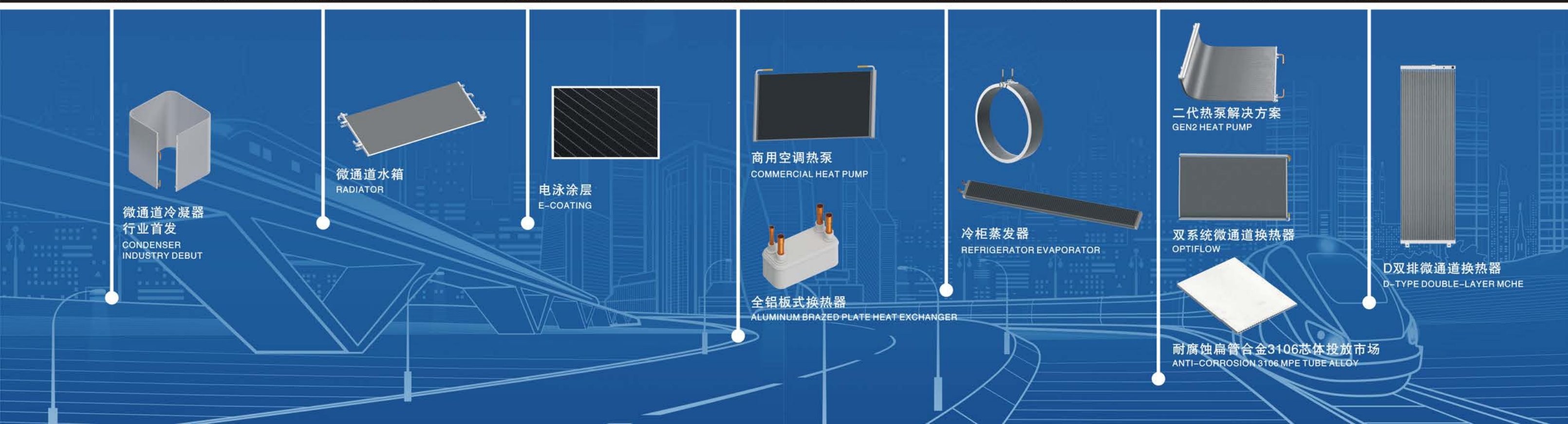
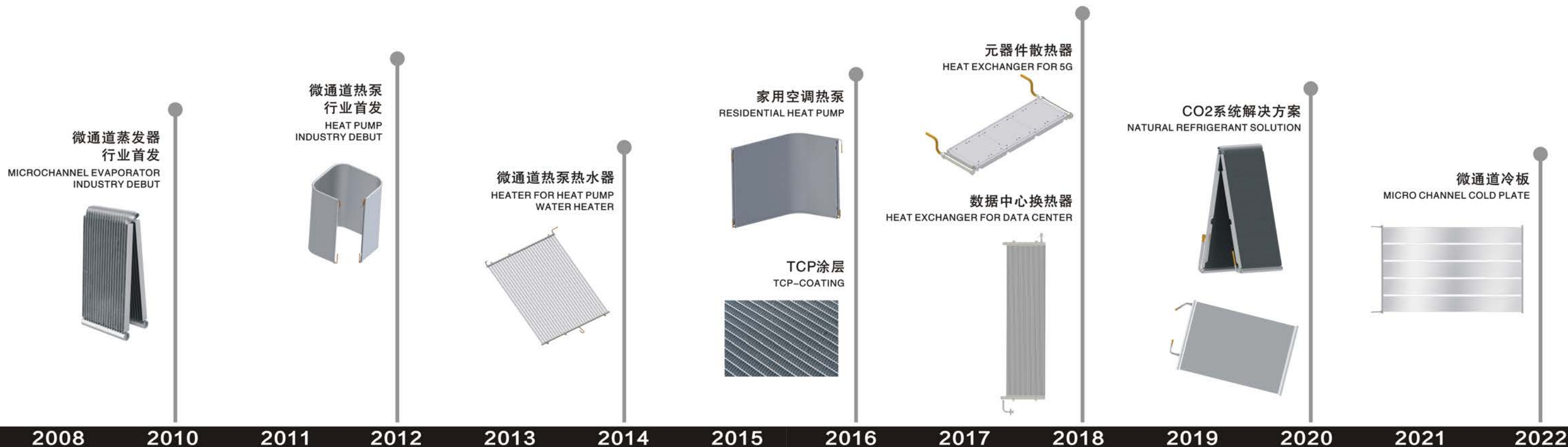
TS16949



专利证书合集 (部分)  
Part of patents



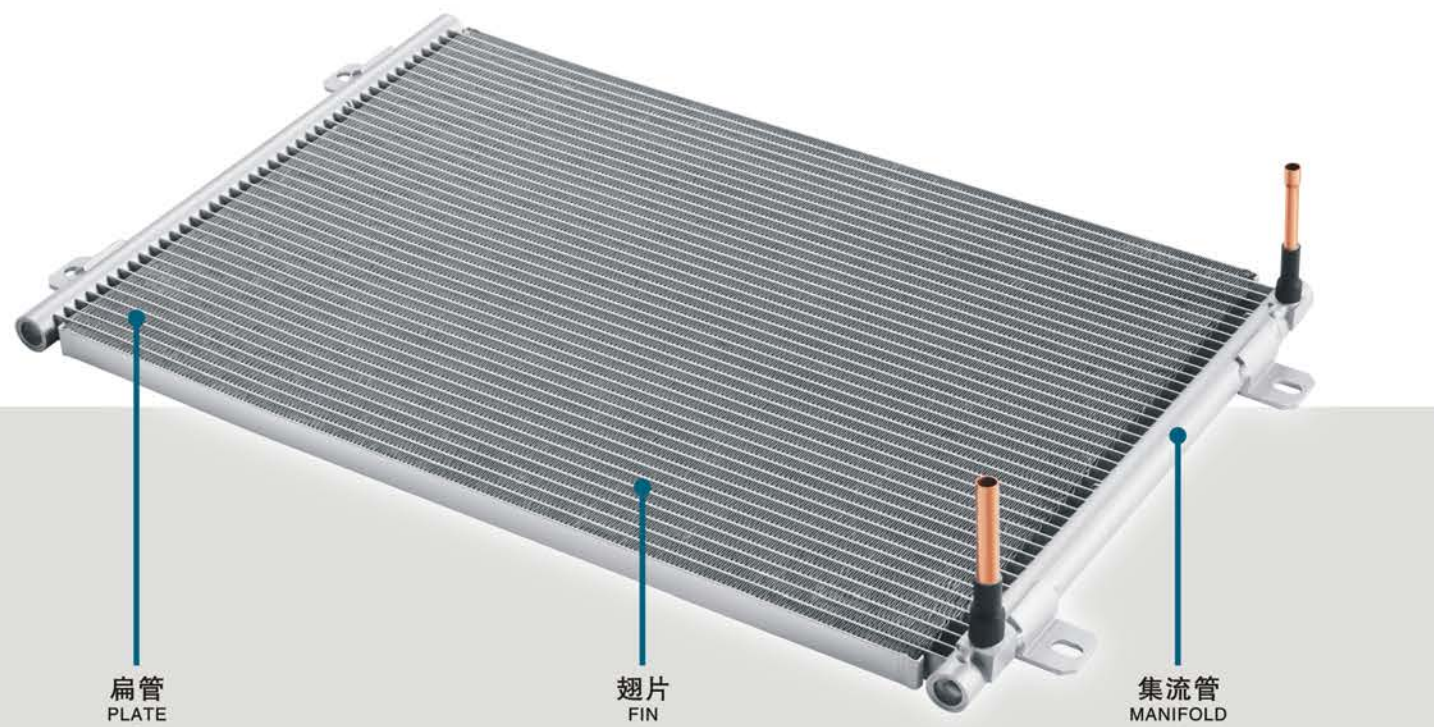
产品里程碑  
PRODUCT MILESTONE





微通道换热器简介  
ABOUT MCHE®

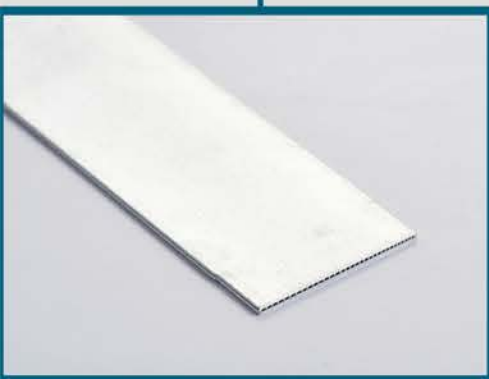
适用冷媒: R32、R744、R290、R410A、R407C、R134A、R404A、R22、R1234ZE、R1234YF、R454B、R453B etc.  
Refrigerant Application



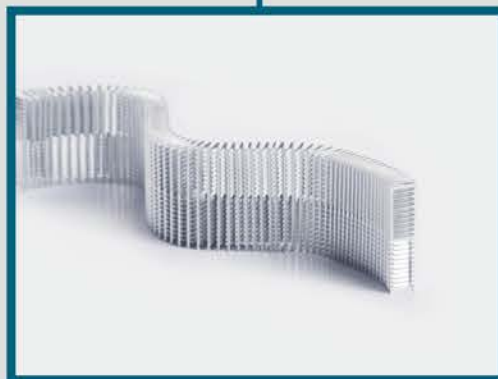
扁管  
PLATE

翅片  
FIN

集流管  
MANIFOLD



小孔径带内齿椭圆管，增强制热  
Micro-aperture flow path improves the heat exchanger efficiency



全开窗翅片，增加换热面积  
The micro-port design increases the heat transfer area



全铝设计  
All aluminum design



多样化设计  
DIVERSE DESIGN

管型分布从8-32mm，超过200种产品组合。  
Portfolio from 8 to 32mm, totally 200+ combinations.

		扁管 Tube																							
宽 With(mm)		8	12	12	12	16	16	16	16	18	18	20	20.6	20.6	25.4	25.4	25.4	25.4	25.4	25.4	32	32	32	12	25.4
厚 Thickness(mm)		1.5	1	1.5	1.5	1.8	1.3	1.3	1.3	1.3	1.3	2	1.3	1.3	1.3	1.3	2	1.3	2	1.3	2	1.3	2	1.3	
孔数 Ports		10	12	14	14	10	16	16	16	23	19	12	20	20	26	26	20	26	20	32	25	32	8	19	

\*可提供翅片规格: 翅片高度6.5~11.4mm, 翅片峰距1.0~1.8mm



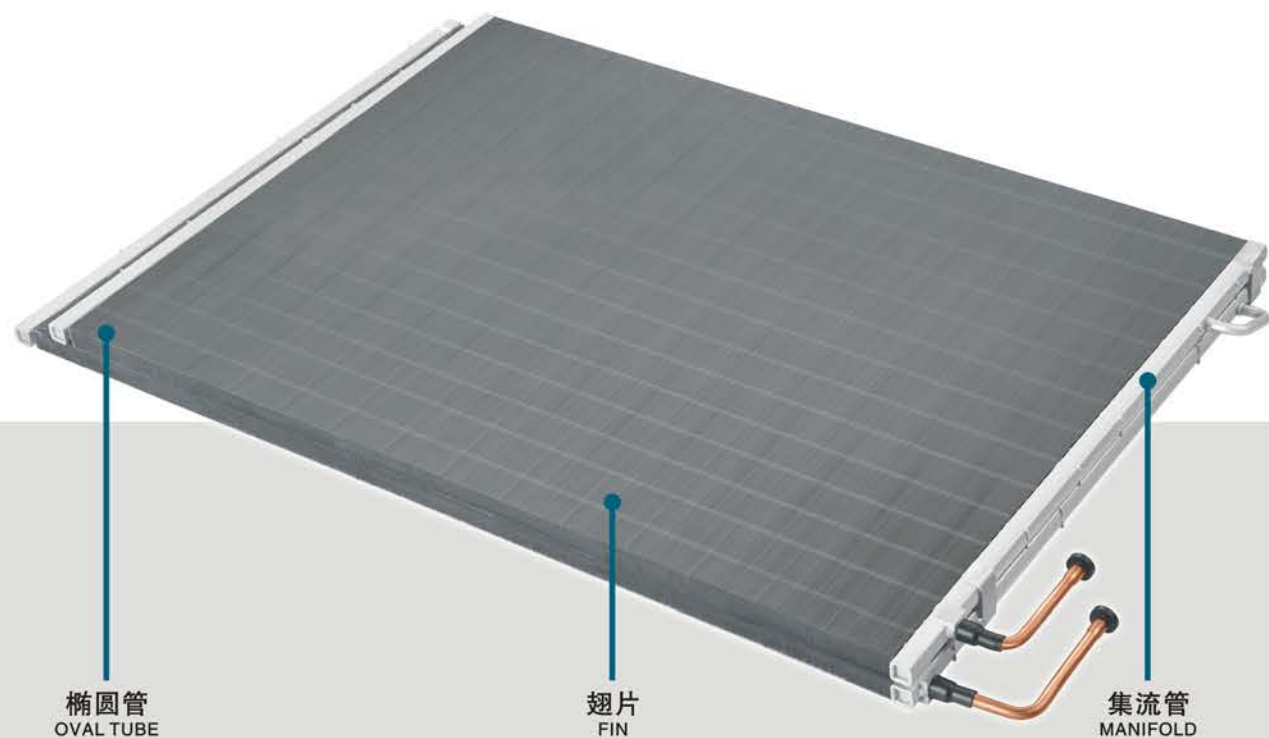
三花微通道提供多种折弯方案  
满足客户不同结构需求  
SANHUAMC provides a variety of bending solutions to meet the different structural requirements of our customers.





## θ-MCCH® 换热器简介 ABOUT θ-MCCH®

适用冷媒: R32、R744、R290、R410A、R407C、R134A、R404A、R22、R1234ZE、R1234YF、R454B、R453B etc.  
Refrigerant Application



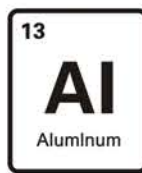
微孔径流路, 提高换热效率  
Small channel with teeth



坚直翅片, 排水及防脏堵性能优异  
Vertical fin is good at dewatering and dust prevention



全铝集流管  
All aluminum design



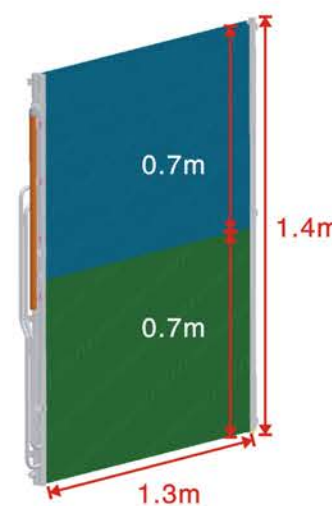
## θ-MCCH® 换热器简介 ABOUT θ-MCCH®

扁管的规格8-10mm, 翅片的规格11.5-21mm, 片距范围1.2-1.5mm。  
Tube width is from 8 to 10mm; Fin width is from 11.5 to 21mm; FP is from 1.2 to 1.5mm.

	扁管宽 Tube width ( mm )	管间距 Tube spacin ( g )	翅片 Fin width ( mm )	集流管 Manifold diameter ( mm )
1	8	17.5	17 ( 平片/开窗 ) 17 ( flat or louvered )	Φ17
2	10	14	21 ( 平片/开窗 ) 21 ( flat or louvered )	18*17
3	10	12	17 ( 波纹片 ) 17 ( corrugated fin )	18*17
4	8.3	14	11.5 ( 桥片 ) 11.5 ( silt fin )	13.6*14

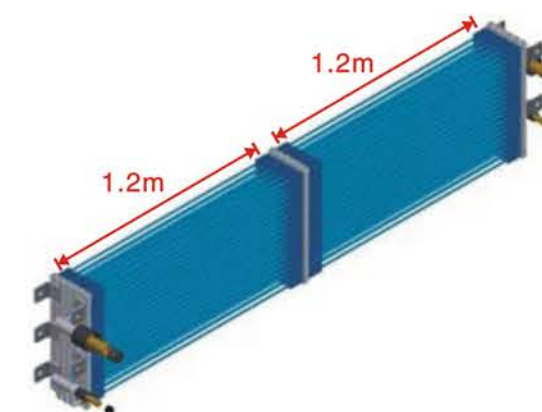
### 上下架构 UP AND DOWN ARCHITECTURE

高 1.4 米  
HEIGHT 1.4M  
长 1.3 米  
LENGHT 1.4M



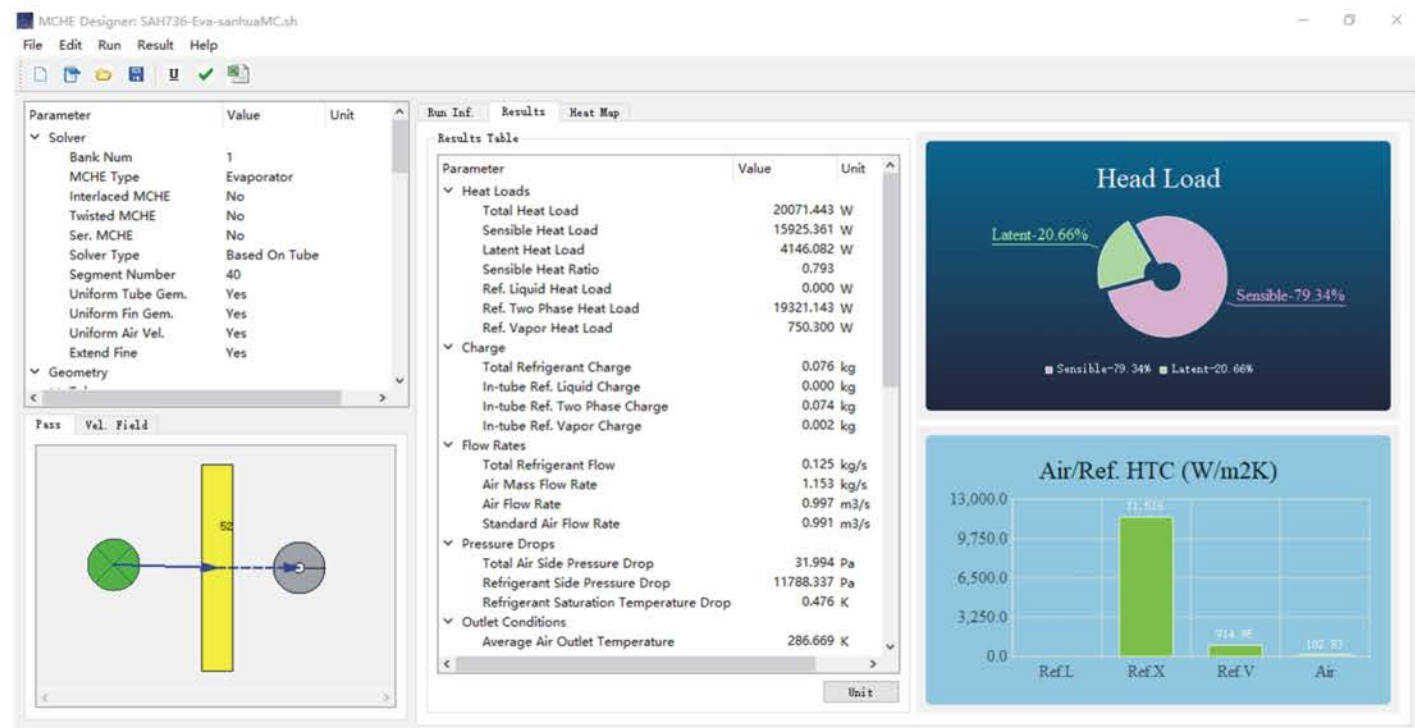
### 左右架构 LEFT-RIGHT STRUCTURE

高 1.4 米  
HEIGHT 1.4M  
长 ( 1.2+1.2 ) 米  
LENGHT 2.4M

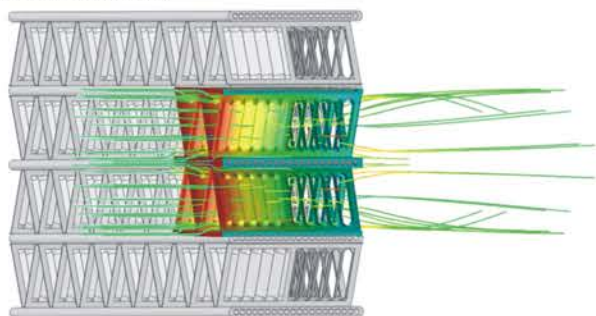




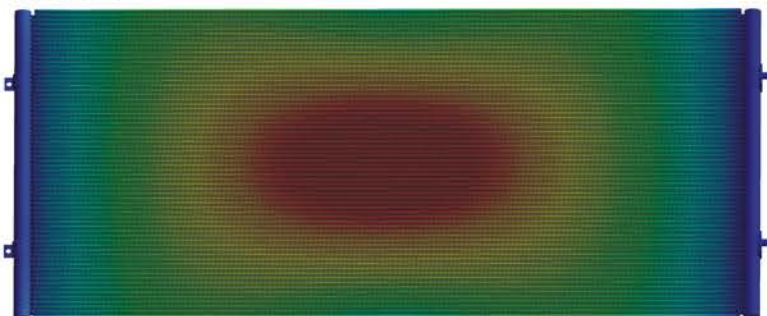
选型模拟工具  
Selection Software



CFD仿真  
CFD simulation tool



FEA分析  
FEA Analysis



亲水涂层解决方案  
Hydrophillic Coating Solution

特点: 亲水涂层具有更好的冷凝水排放, 提高传热性能。  
Advantages: The evaporators with hydrophillic coating has better condensate drainage and efficiency.  
适用场景: 应用于室内环境, 蒸发器  
Application: Indoor environment, evaporator

E-coating涂层解决方案  
E-Coating Solution

特点: 涂层厚度均匀, 折弯后性能优良, 防腐蚀性优异  
Advantages: The E-coating has excellent anticorrosion performance and uniform coating thickness, which will not affect the performance even after bending  
适用场景: 空调外机, 可用于沿海地区、工业区、高污染的城市等。  
Application: Applied to outdoor unit in coastal, industrial high pollution areas.

TCP涂层解决方案  
TCP Coating Solution

特点: 符合Rohs要求, 与不锈钢的钝化膜类似, 大幅提升耐腐蚀性能, 膜层厚度为亚微米量级, 不影响传热性能  
Advantages: Meet ROHS requirements, and like stainless steel, it can prolong the anti-corrosion performance of the coil.  
适用场景: 空调外机, 可用于沿海(非近海)地区、一般工业区(非化工)、污染的城市。  
Application: Applied to the outdoor in coastal (Non-offshore areas), industrial areas (Non-chemical industry areas) and the areas with pollution.

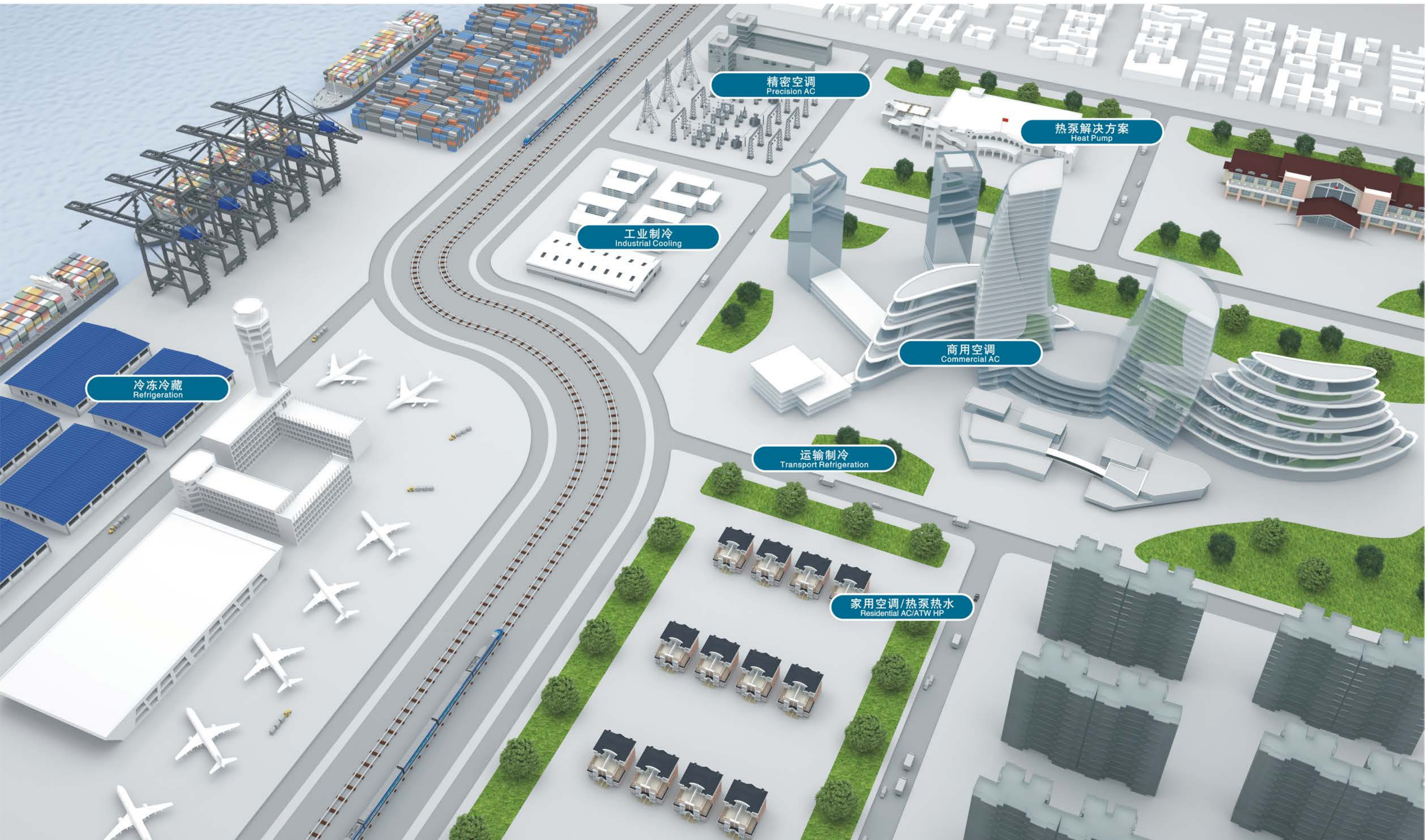


扁管 Tube	3102	3103m	3106
芯体扁管SWAAT寿命 SWAAT life of tube on coil	> 3000h	> 3500h	> 5000h
防腐涂层 Coating		TCP	E-coating
芯体SWAAT寿命延长 SWAAT life prolonging on coil		+1000h	+2000h



不断提供创新制冷 / 制热解决方案

REFRIGERATION / HEATING SOLUTIONS



冷冻冷藏  
Refrigeration

工业制冷  
Industrial Cooling

精密空调  
Precision AC

运输制冷  
Transport Refrigeration

商用空调  
Commercial AC

热泵解决方案  
Heat Pump

家用空调 / 热泵热水  
Residential AC/ATW HP



家用制冷·制热解决方案  
RESIDENTIAL HVAC SOLUTIONS

- ◆ Higher efficiency, EER improvement to unit
- ◆ Reduced refrigerant charge
- ◆ The innovative heat exchanger design can optimize the use of space to reduce the footprint of the unit.
- ◆ All-aluminum design, minimum galvanic corrosion, easy to recycle

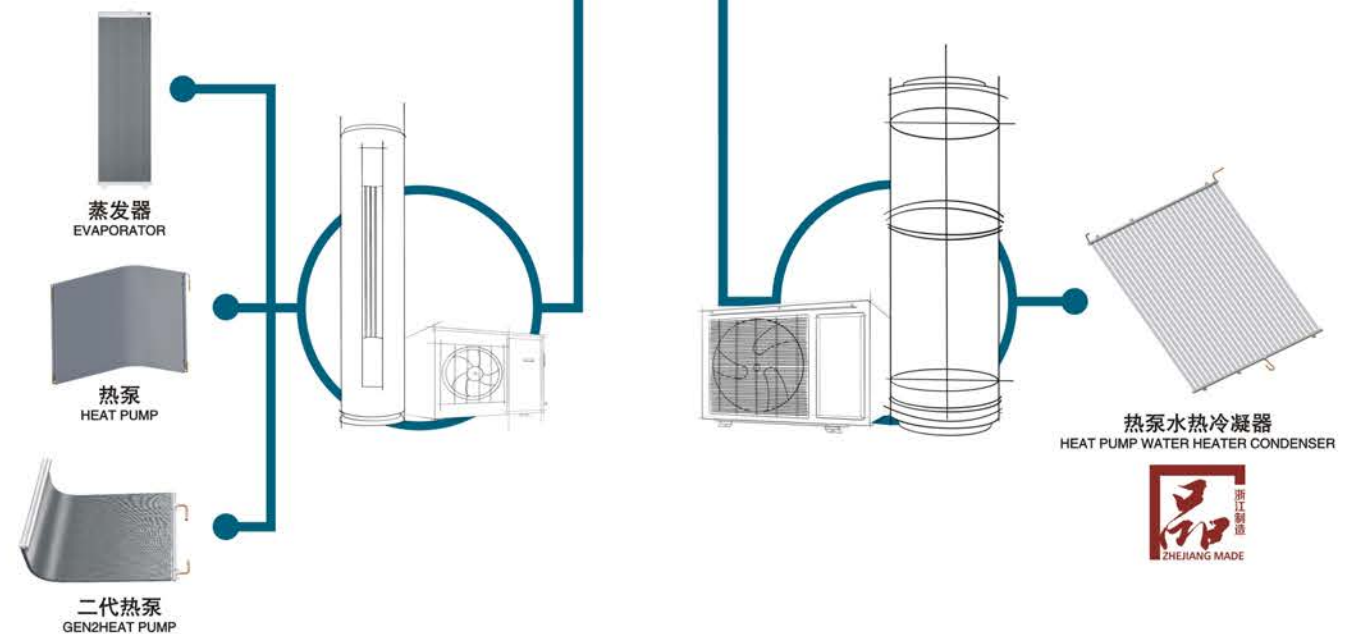
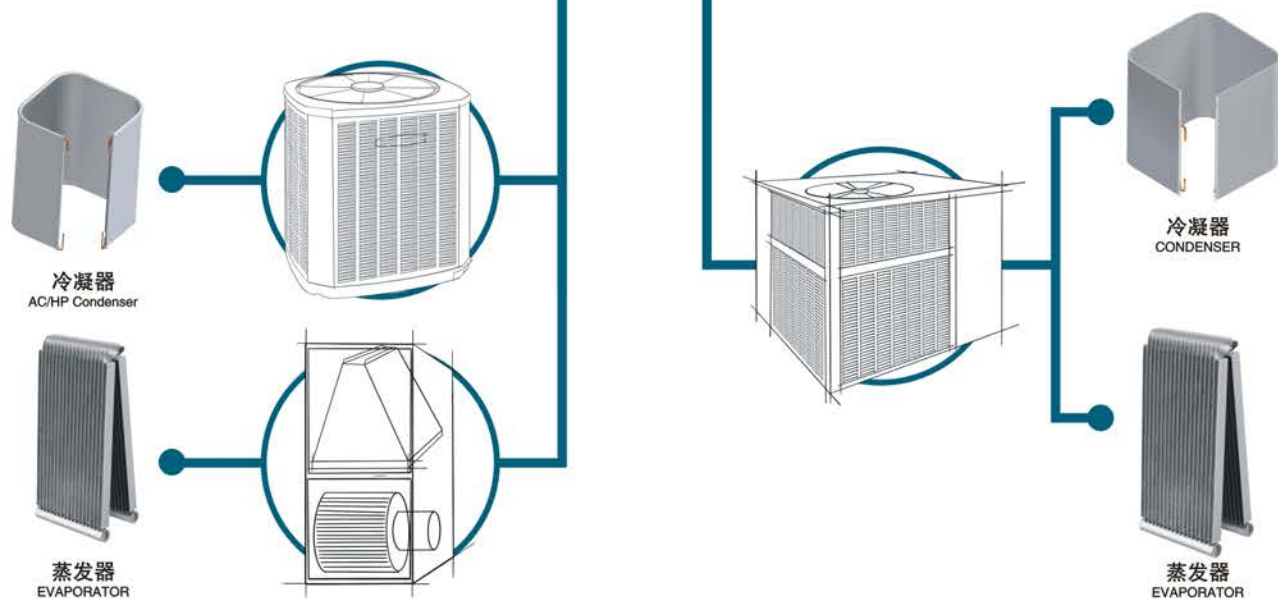


北美家用分体机  
NA Res Split Unit

北美家用一体机  
NA Res Packaged Unit

亚太家用空调  
AP RAC

热泵热水器  
Heat Pump Water Heater





商用制冷制热解决方案  
COMMERCIAL HVAC SOLUTIONS

- 有效提高机组能效 ◆ EER improvement to unit
- 分配管内置，简化接口 ◆ Built-in distributor
- 减少冷媒充注，显著降低成本 ◆ Reduce refrigerant charge
- 减少机组重量 ◆ Weight reduction
- 全铝制造，100%可回收 ◆ All-aluminum design, easy to recycle

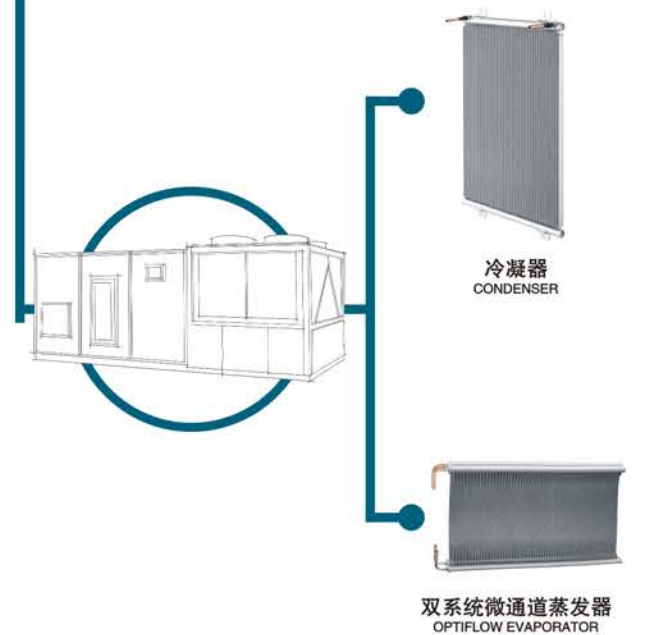
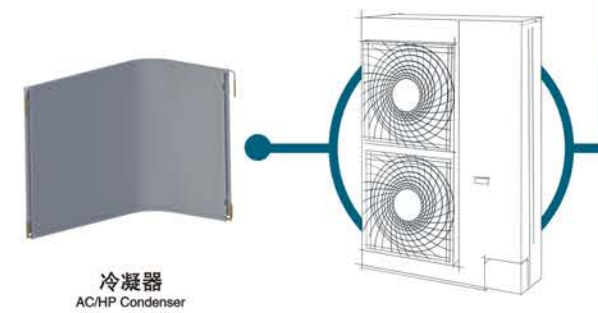
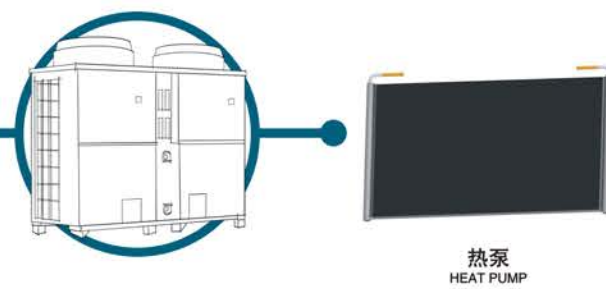
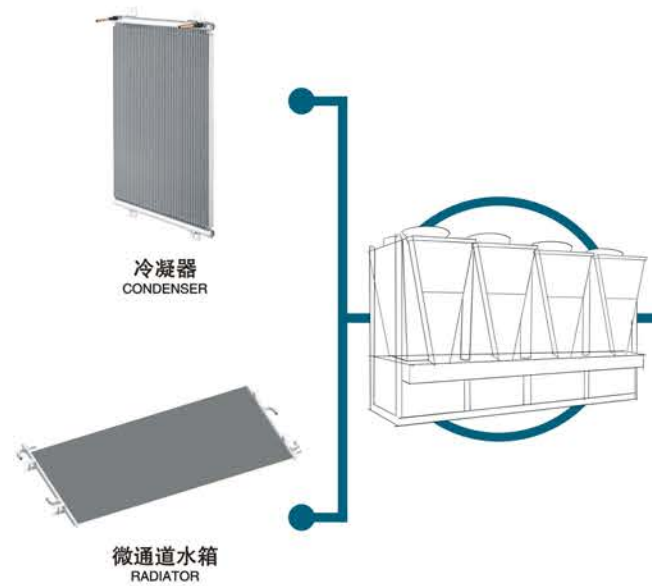


风冷冷水机  
Air Cooled Chiller

风冷模块机  
Modular Chiller HP

亚太轻商单元机  
AP Light Commercial Unite

北美屋顶机  
NA Rooftop





冷冻冷藏解决方案  
COMMERCIAL REFRIGERATION SOLUTIONS

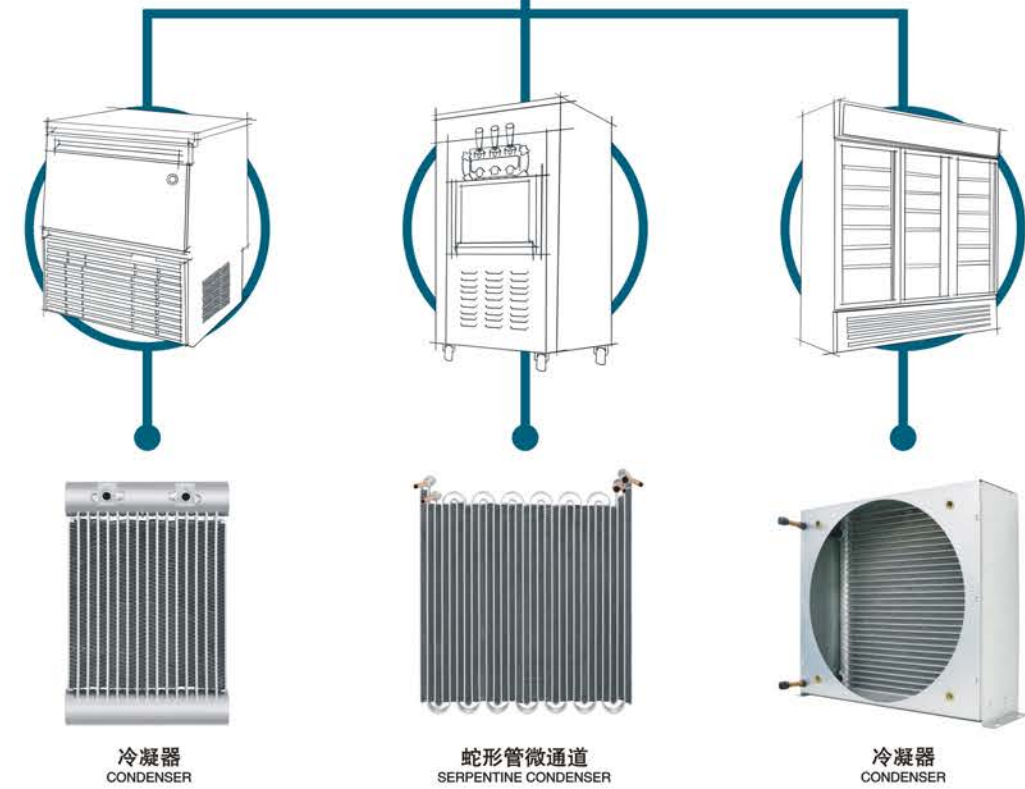
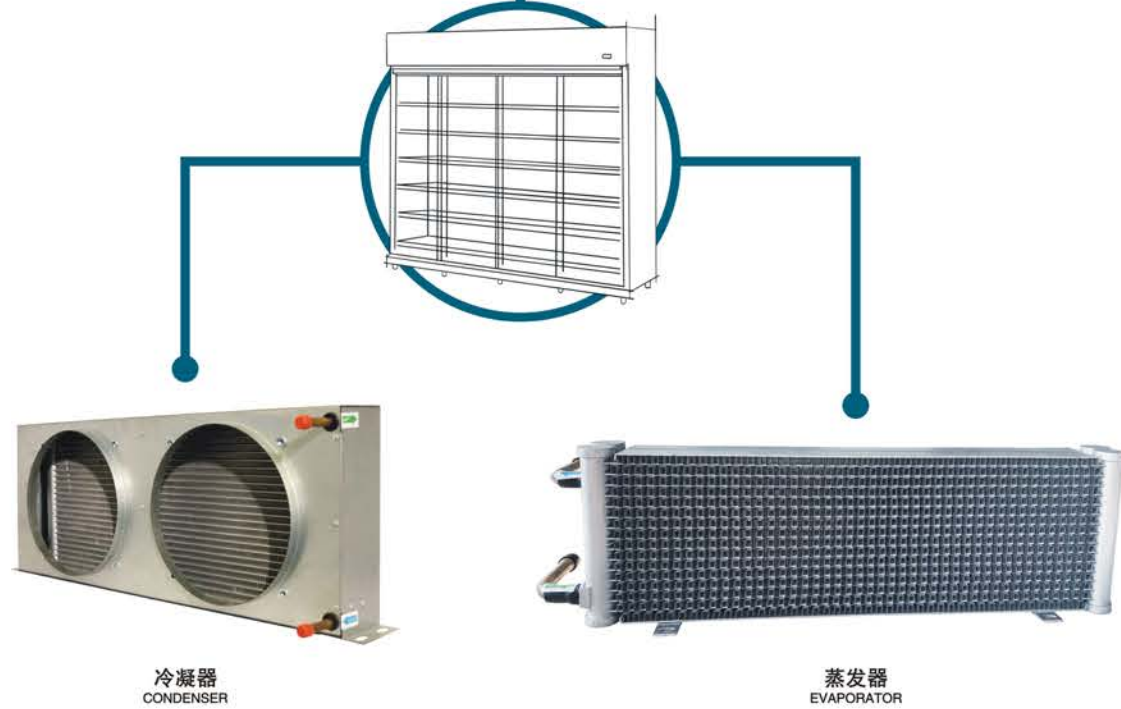
- 体积更小, 重量更轻 ◆ Smaller size, lighter weight
- 全铝设计, 更易回收 ◆ All-aluminum design, easy to recycle
- 减少冷媒充注 ◆ Reduce Refrigerant charge
- 优化分配管设计 ◆ Optimize the refrigerant distribution
- 防结霜结冰 ◆ Anti-Freeze



商超冷柜  
Cabinet Display



其他冷冻冷藏解决方案  
Other Commercial Refrigeration Solutions

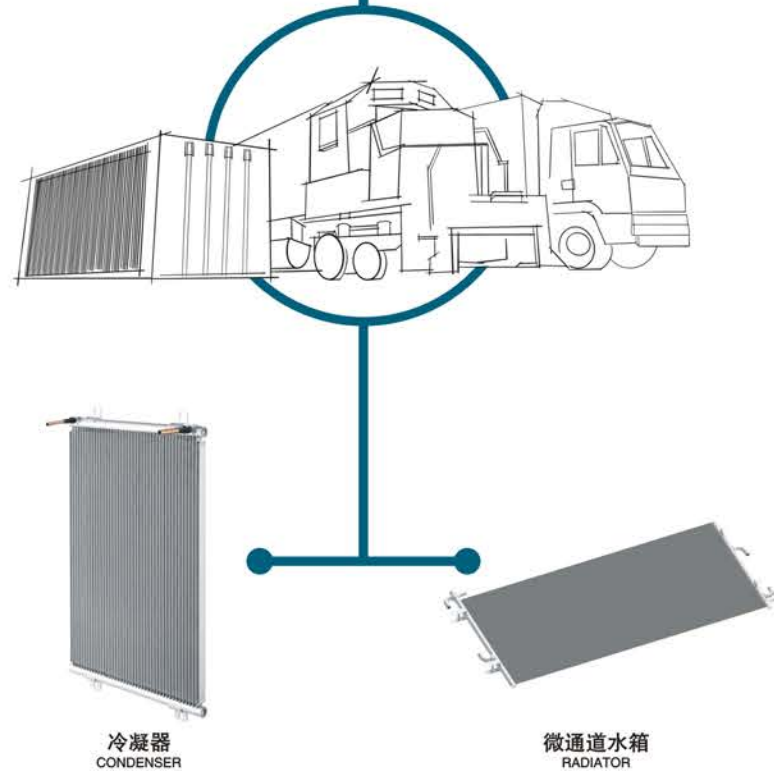




**运输制冷解决方案**  
TRANSPORT REFRIGERATION SOLUTIONS



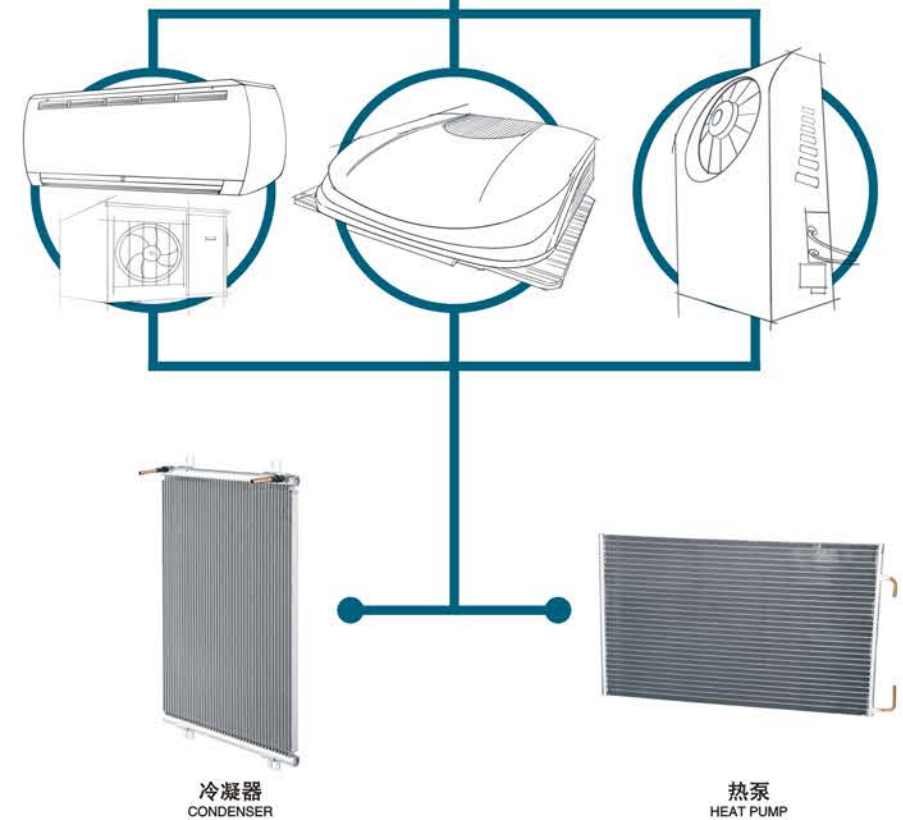
运输制冷  
Transport Refrigeration Solutions



耐腐蚀涂层解决方案, 寿命相比传统微通道提高一倍 ◆ The special anti-corrosion coating doubles the life of the product compared without coating  
提高换热效率 ◆ Efficiency improvement  
全铝设计, 重量更轻, 结构紧凑 ◆ All-aluminum design and MCHC structure makes it lighter and smaller



驻车空调  
Parking Cooler Solutions





自然冷媒解决方案  
NATURAL REFRIGERANT SOLUTIONS

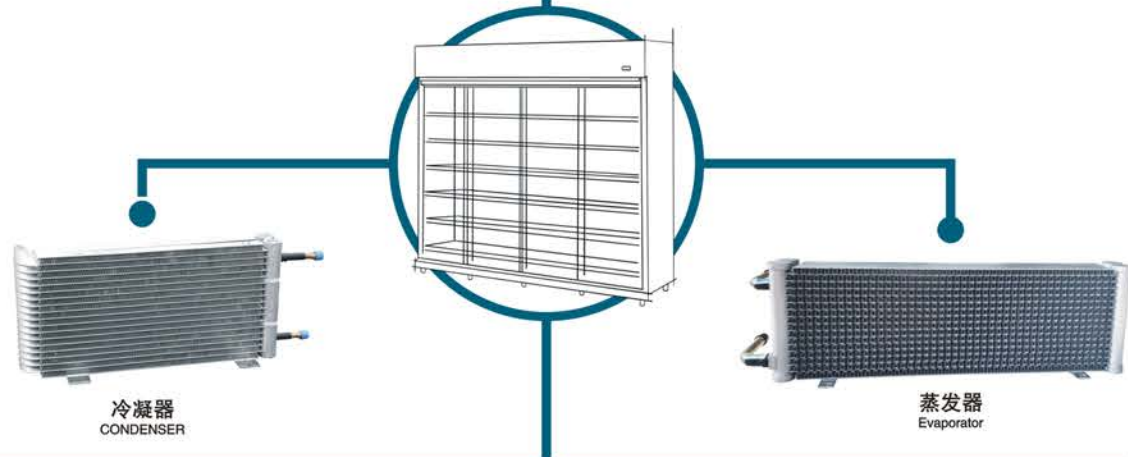
精密空调  
PRECISION AC



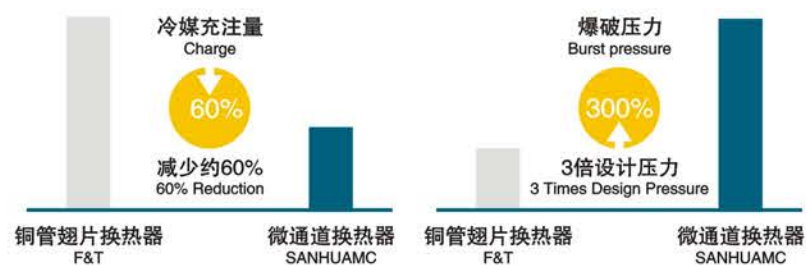
自然冷媒解决方案  
Natural Refrigerant Solutions



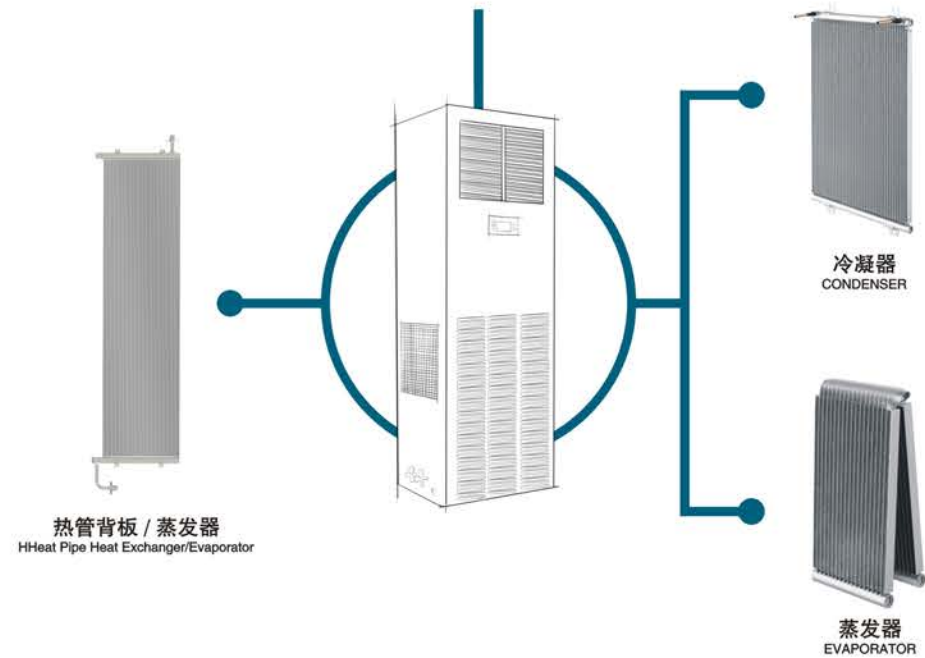
精密空调  
Precision Ac



专为自然冷媒系统设计耐高压更安全  
SPECIALLY DESIGNED FOR NATURAL REFRIGERATION SYSTEM



- 减少冷媒充注 Reduce refrigerant charge
- 提高换热效率 Efficiency improvement
- 全铝设计, 减轻整机重量 All-aluminum design, reduces the weight of the unit
- 结构紧凑, 减少整机空间占用 Compact structure



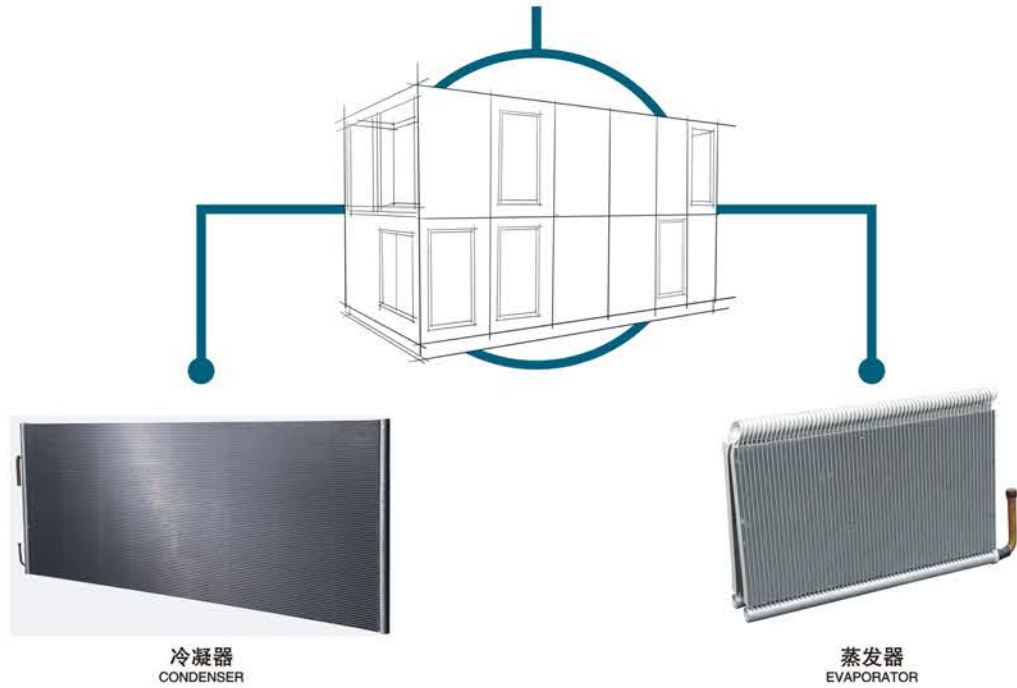


间接蒸发冷  
INDIRECT EVAPORATIVE COOLING



间接蒸发冷  
Indirect Evaporative Cooling

耐腐蚀涂层解决方案, 寿命相比传统微通道提高一倍 The special anti-corrosion coating doubles the life of the product compared without coating  
 结构紧凑, 减少整机空间占用 Compact structure  
 提高换热效率 Efficiency improvement  
 减少冷媒充注 Reduce refrigerant charge

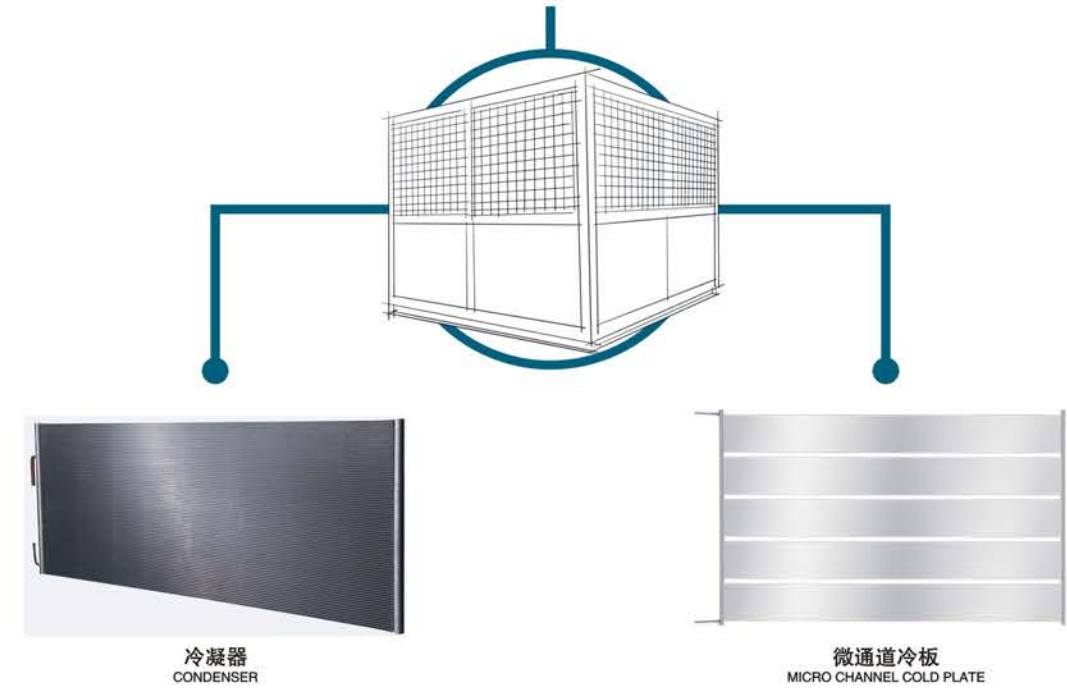


储能  
ELECTROCHEMICAL ENERGY STORAGE



储能  
Electrochemical Energy Storage

耐腐蚀涂层解决方案, 寿命相比传统微通道提高一倍 The special anti-corrosion coating doubles the life of the product compared without coating  
 结构紧凑, 减少整机空间占用 Compact structure  
 提高换热效率 Efficiency improvement  
 减少冷媒充注 Reduce refrigerant charge





## 冷凝器标准产品

## STANDARD CONDENSER

型号 Type	排数&扁管宽度 Number of Banks & Flat Tube Width	翅片 FPI	最大工作压力 Max Working Pressure(bar)	进口管尺寸 Dimeter of Inlet Tube(mm)	出口管尺寸 Dimeter of Outlet Tube(mm)	换热量 Capacity(W)	外形尺寸 L*W*H(mm)	换热器类型 Heat Exchanger Type(P or S)	建议应用领域 Recommended Application Fields	包装数量 件/箱 L*W*H(mm)
SD10-5	1*16	23	45	Φ8	Φ8	2669	330*20*300.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD10-6	1*16	23	45	Φ8	Φ8	2669	330*20*300.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD11-5	1*16	23	45	Φ8	Φ8	3576	385*20*347.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD11-6	1*16	23	45	Φ8	Φ8	3576	385*20*347.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD12-5	1*16	23	45	Φ8	Φ8	5742	460*20*432.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD12-6	1*16	23	45	Φ8	Φ8	5742	460*20*432.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD13-5	1*16	23	45	Φ9.52	Φ8	8013	550*20*516.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD13-6	1*16	23	45	Φ9.52	Φ8	8013	550*20*516.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD14-5	1*16	23	45	Φ9.52	Φ8	17838	780*20*770.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	40
SD14-6	1*16	23	45	Φ9.52	Φ8	17838	780*20*770.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	40
SD15-5	1*25.4	23	45	Φ12.7	Φ12.7	19502	1074*32*516.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	30
SD15-6	1*25.4	23	45	Φ12.7	Φ12.7	19502	1074*32*516.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	30
SD16-5	1*16	23	45	Φ12.7	Φ12.7	24225	1280*20*620.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD16-6	1*16	23	45	Φ12.7	Φ12.7	24225	1280*20*620.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD17-5	1*25.4	23	45	Φ15.88	Φ12.7	29976	1324*32*639.1	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD17-6	1*25.4	23	45	Φ15.88	Φ12.7	29976	1324*32*639.1	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD18-5	1*25.4	23	45	Φ22.2	Φ22.2	44620	1074*32*1212.5	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	10
SD18-6	1*25.4	23	45	Φ22.2	Φ22.2	44620	1074*32*1212.5	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	10
SD19-5	1*25.4	23	45	Φ22.2	Φ22.2	60874	1274*32*1362.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	10
SD19-6	1*25.4	23	45	Φ22.2	Φ22.2	60874	1274*32*1362.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	10
SD20-5	1*25.4	23	45	Φ22.2	Φ22.2	75830	2000*32*1058.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	18
SD20-6	1*25.4	23	45	Φ22.2	Φ22.2	75830	2000*32*1058.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	18
SD21	1*12	21	45	Φ9.52	Φ9.52	8673	751*17*503.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	46
SD22	1*16	23	45	Φ12.7	Φ12.7	11300	756*20*509.8	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	40
SD23	1*16	23	45	Φ12.7	Φ12.7	15839	803*20*669.6	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	40
SD24	1*16	23	45	Φ9.52	Φ9.52	20836	966*20*801.2	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	35
SD25	1*16	23	45	Φ12.7	Φ9.52	31888	973*20*1196	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	25
SD26	1*16	23	45	Φ12.7	Φ9.52	33008	1544*20*707.2	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
SD27	1*16	23	45	Φ12.7	Φ9.52	23193	1544*20*500.4	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	30
SD28	1*16	23	45	Φ12.7	Φ9.52	28149	1544*20*603.8	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	22
SD29	1*16	23	45	Φ12.7	Φ9.52	24750	1694*20*509.8	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	27
SD30	1*16	23	45	Φ12.7	Φ9.52	37877	1544*20*810.6	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	23
SD31	1*16	18	45	Φ12.7	Φ9.52	33812	2363*20*603.8	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	21
SD32	1*16	23	45	Φ12.7	Φ9.52	46218	1938*20*857.6	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	23
SD33	1*16	23	45	Φ12.7	Φ9.52	34334	1694*20*707.2	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	23
SD34	1*16	18	45	Φ12.7	Φ9.52	50730	2363*20*904.6	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	23
SD35	1*16	23	45	Φ12.7	Φ9.52	52071	1938*20*961	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	27
SD36	1*16	23	45	Φ12.7	Φ9.52	40600	1938*20*754.2	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	22
SD37	1*20.6	23	45	Φ12.7	Φ9.52	66314	1944*26*1064.4	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20



冷凝器标准产品

STANDARD CONDENSER

型号 Type	排数&扁管宽度 Number of Banks & Flat Tube Width	翅片 FPI	最大工作压力 Max Working Pressure(bar)	进口管尺寸 Dimeter of Inlet Tube(mm)	出口管尺寸 Dimeter of Outlet Tube(mm)
SD38	1*20.6	23	45	Φ12.7	Φ9.52
SD39	1*20.6	23	45	Φ12.7	Φ9.52
SD40	1*16	23	45	Φ12.7	Φ9.52
SD41	1*20.6	23	45	Φ12.7	Φ9.52
SD42	1*16	16	45	Φ8	Φ8
SD43	1*16	16	45	Φ8	Φ8
SD44	1*16	16	45	Φ8	Φ8
SD45	1*16	16	45	Φ9.52	Φ8
SD46	1*16	16	45	Φ9.52	Φ8
SD47	1*25.4	16	45	Φ12.7	Φ12.7
SD48	1*16	16	45	Φ12.7	Φ12.7
SD49	1*25.4	16	45	Φ15.88	Φ12.7
SD50	1*25.4	16	45	Φ22.2	Φ22.2
SD51	1*25.4	16	45	Φ22.2	Φ22.2
SD52	1*25.4	16	45	Φ22.2	Φ22.2

换热量 Capacity(W)	外形尺寸 L*W*H(mm)	换热器类型 Heat Exchanger Type(P or S)	建议应用领域 Recommended Application Fields	包装数量 件/箱 L*W*H(mm)
68170	2293*26*1008	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	18
71553	2220*26*1064.4	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
44660	1836*20*857.6	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	13
62838	1818*26*1064.4	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	25
2368	330*20*300.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
3208	385*20*347.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
5146	460*20*432.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
7197	550*20*516.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
16097	780*20*770.7	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	40
16822	1074*32*516.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	30
22026	1280*20*620.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
26748	1324*32*639.1	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	20
40694	1074*32*1212.5	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	10
55130	1274*32*1362.9	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	10
69048	2000*32*1058.3	平行流(P)	暖通空调系统&冷冻冷藏 HVAC & Refrigeration	18

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**SANHUAMC**<sup>®</sup>  
Micro Channel Heat Exchanger

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