

High Efficiency Heat Exchanging Solution

Increased Savings With
Micro Channel Heat Exchangers



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Micro Channel Heat Exchanger



Save time and money
with **MCHE** standard products
Micro Channel Heat Exchanger

70%

Lower refrigerant
charge
Initial and lifetime
costs are significantly
reduced

FuRui Micro Channel Heat Exchanger Co.,Ltd

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精工细铸 · 打造世界级品质
Devoted to be Delicate.Create the World-Class Quality



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About RF MCHE

FuRui Micro Channel Heat Exchanger Co.,Ltd. was founded in 1996 with a registered capital of 15 million RMB covering an area of 20,000 square meters. It is an enterprise with professional R&D, design, production and industrialization based on modern industrial technology. We produce and sell various types of Micro Channel Heat Exchangers, Micro Channel cores, liquid receivers and copper fittings. Products are widely used in Commercial, industrial, civil, military, medical and other refrigeration and telecommunications fields which have a larger leading advantage.

The Micro Channel Heat Exchangers produced according to the core independent intellectual property rights, this is in a leading position in China, and we are also one of main companies who drafting the industry standards of the Micro Channel Heat Exchangers. In addition, in order to response to the call of the China Twelfth Five-Year Plan, FuRui Micro Channel will also gradually involved into other fields of energy-saving and environmentally friendly products.

"Create value for customers" is the goal of our company. With the continuous promotion and application of Micro Channel technology, we will provide a much wider field with high efficiency, low carbon environmental protection products and excellent service.

1996

Initial stage
Main products: refrigeration machinery.

2000-2005

Takeoff stage
Get ISO9001 quality management system,
set up the air conditioning spare part workshop

2000

Exploration stage
Gradually involved in
household air conditioning
accessories industry.

2006-2008

Diversification integration stage
In 2006, After passing Guangzhou Panasonic
Air Conditioner Co., Ltd. test
The company officially became a Panasonic supplier.
In 2006, the company passed ISO14001 environmental
quality
management system certification.
In 2008, mergers and acquisition of
Tianjin Sanhua Wanda refrigeration accessories
Limited company; mainly selling Home Air Conditioner
Accessories



Develop of RF MCHE

Transformation of Innovation,
Great Leap of Development.

FUTURE

2009-2010

Strategic layout stage
invested heavily in developing
microchannel heat exchangers.

2011-2015

Low market recognition ,
Poor environmental problems,
weaknesses on technology

2016-2022

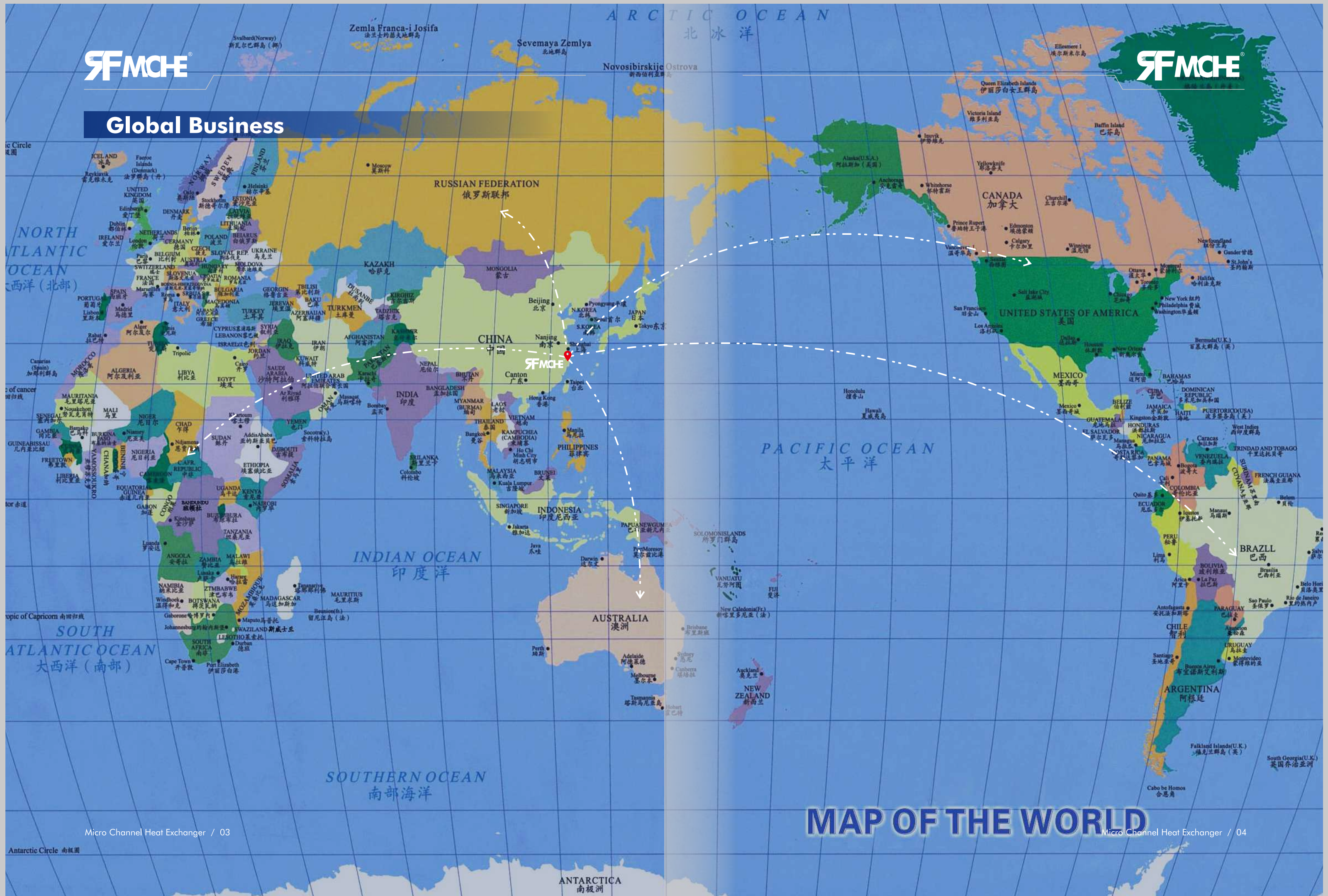
Increasing in market recognition
products are widely used in
dehumidifier, air dryer ,
ice maker machine, CRAC,
telecommunications

2011

Rapid expansion stage
In 2011, won the Guangzhou Panasonic air conditioner 5S excellent supply of steam
In 2011, won the annual China refrigeration, heat pump industry enterprise award for Development Potential.
In 2012, became "National General Technology of Microchannel Heat Exchanger , the main drafting unit of industry standard.
In 2012, was listed as the development of circular economy in Zhejiang Province
"991 action plan " Key projects in 2012.
In 2013, the microchannel heat exchanger in the 14th China Cold Expo On the win " Innovation Award
In 2014, the 15th China Cold Expo won "China"refrigeration industry micro channel parallel flow star enterprise "Title.
In 2014, the company was rated as "national-level High-tech enterprises "
2015, participating countries "Research on Heat Dissipation of Special Vehicle.
On February 26, 2016, it officially listed on the new three board.
March 20-23, 2016, CCTV Discovery Tour - < Craftsman >
Spirit column group officially stationed in our company shooting "refrigeration line" The Pathfinder of Industry.



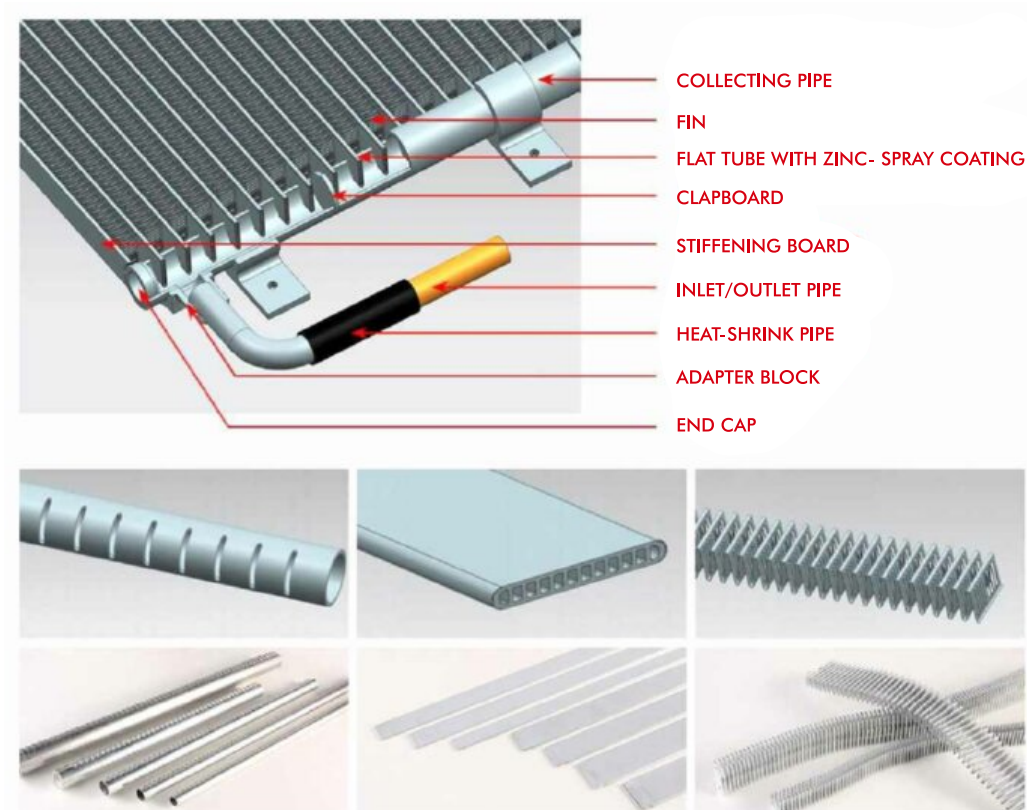
Global Business



MAP OF THE WORLD

Product Introduction & Advantages

Micro Channel Heat Exchangers (Parallel Flow condenser) is a kind of all Aluminum Heat Exchanger which is consist of folded louvered fins and flat micro-channel tubes, refrigerant flows through micro-channel tubes which are combined between two collecting pipes within which clapboards are used to seperate each distribution.



Advantages

- | | |
|---|---|
| 01 The heat exchange efficiency can be increased by more than 30% | 07 100% Aluminum, with stronger electrochemical corrosion resistance |
| 02 The maximum refrigerant charge can be reduced by 50% | 08 Special flow pass design ensures event refrigerant distribution |
| 03 The wind resistance can be reduced by 30% | 09 Special fin configuration ensures smooth drainage of condensate |
| 04 The core is lighter and the volume can be reduced by 50% | 10 NOCOLOK Brazing makes flat tube & fin brazed together at same time, ensures high heat transfer coefficient |
| 05 All-aluminum heat exchanger is easy to recover and is more environment-friendly. | 11 More suitable for high pressure refrigerant, such as R410a, R290 etc |
| 06 100% welding, less performance degradation | |

R&D CAPABILITY

Technology R&D Center, as the engine and heart of RF MCHE , is the key department of the company.

This team was composed by authoritative specialists and senior engineers, who concentration on studies and innovations, have acquired many technology achievements. The application of patented technology like energy recycling and innovative design, has acquired many new breakthrough in improving the increase of production and make the quality much stable.

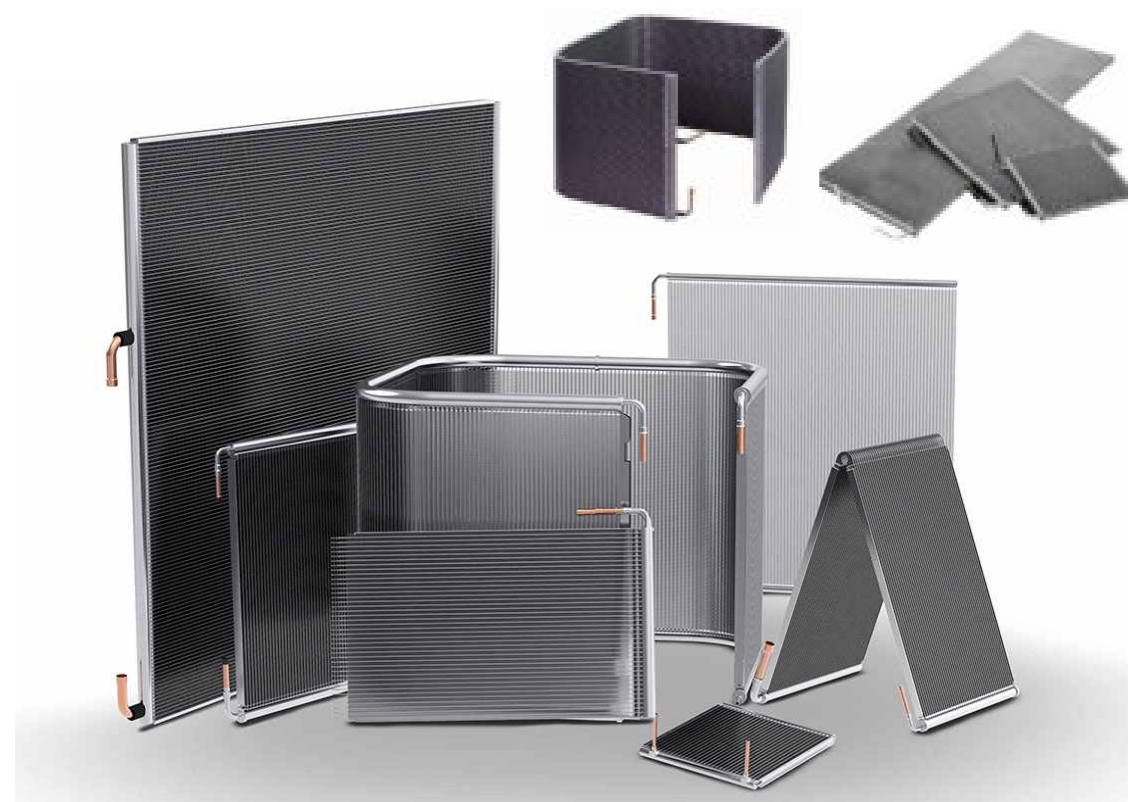


CERTIFICATE

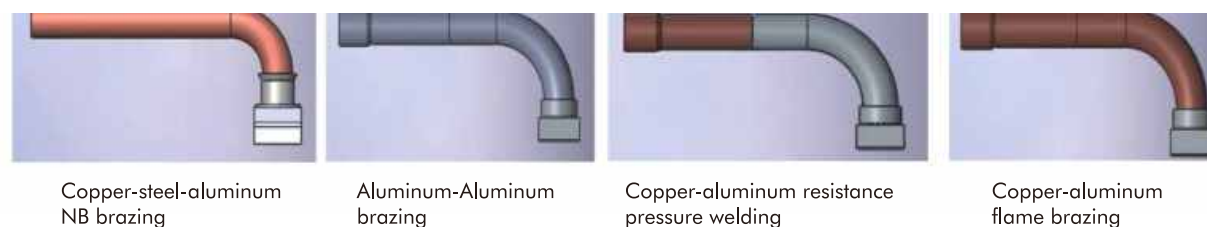


MOLD INFO

NO.	Header Tube	Tube	Fin	Length (Max)	Height (Max)
1	Φ 32*2.5	26*2	26*8 (19-24FPI)	2500	1150 (114 flat tube)
2	Φ 26*1.9	20*2	20*8 (19-24FPI)	2500	1150 (114 flat tube)
3	Φ 20*1.5	16*1.8	16*8 (19-24FPI)	2500	1150 (116 flat tube)
4	Φ 20*1.5	16*1.3	16*8.1 (19-24FPI)	2500	690 (72 flat tube)
5	Φ 32*2.0	26*1.3	26*8.1 (19-24FPI)	900	1190 (125 flat tube)
6					
7					



Tube Connecting Type



APPLICATION

DEHUMIDIFIER

- Domestic Dehumidifier
- Commercial Dehumidifier
- Industrial Dehumidifier

INDUSTRIAL REFRIGERATION

- Refrigerated Air Dryer
- Industrial Chiller
- Water Baths

COMMERCIAL REFRIGERATION

- Supermarket Showcase
- Condensing Unit

LIGHT COMMERCIAL REFRIGERATION

- Ice Maker
- Ice Cream Machine
- Condensing Unit For Light Commercial Refrigeration
- Chest Freezer
- Vending Machine

AUTOMOBILE AC&R

- Transportation Refrigeration
- Bus Air Conditioning
- Railway & Subway Air Conditioning
- Marine Air Conditioning

PRECISION AIR CONDITIONING

- Precision Air Conditioning
- Panel Air Conditioning

HEAT PUMP

- Heat Pump Water Heater
- Heat Pump Dryer
- Heat Pump For Swimming Pool

COMMERCIAL AIR CONDITIONING

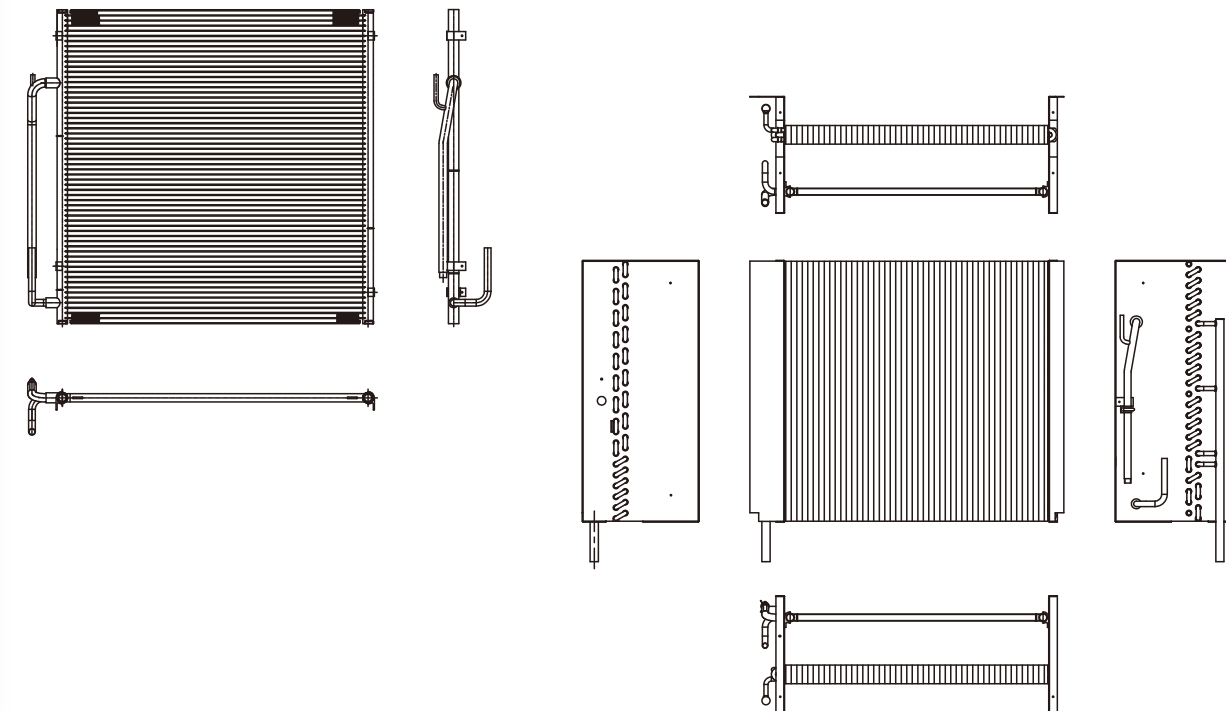
- Module Air Cooled Chiller
- VRF
- Rooftop Unit
- Air handle Unit

DOMESTIC AIR CONDITIONING

NEW ENERGY

- New Energy Automobile
- New Energy Car Charging Pile

DEHUMIDIFIER



SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	Fin
Material	3003/4045	3F03+Zn	4343/3003/4343
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	26*1.9	20.6*1.3	20.6*0.08
	26*1.9	20*2	20*0.08
	32*2	25.4*1.3	25.4*0.08
	32*2.5	26*2	26*0.08
	38*2.2	32*1.3	32*0.08

DEHUMIDIFIER

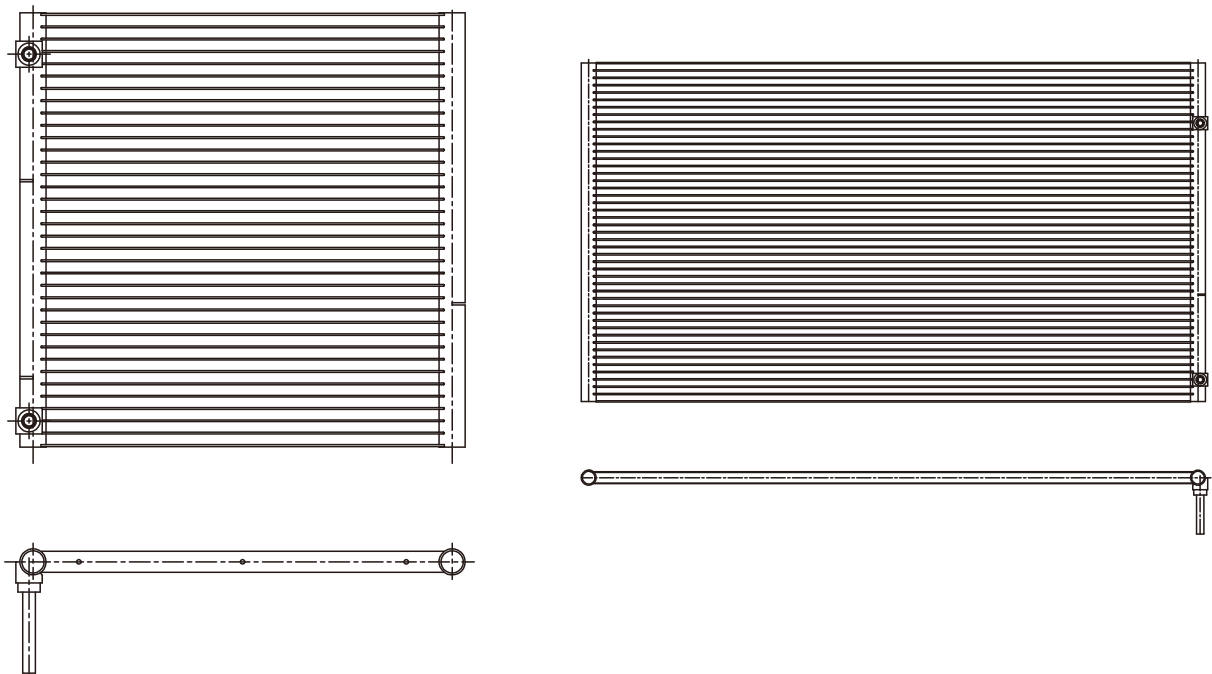
- Domestic Dehumidifier
- Commercial Dehumidifier
- Industrial Dehumidifier



INDUSTRIAL REFRIGERATION

- Refrigerated Air Dryer
- Industrial Chiller
- Water Baths

INDUSTRIAL REFRIGERATION



SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	Fin
Material	3003/4045	3F03+Zn	4343/3003/4343
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	26*1.9	20.6*1.3	20.6*0.08
	26*1.9	20*2	20*0.08
	32*2	25.4*1.3	25.4*0.08
	32*2.5	26*2	26*0.08
	38*2.2	32*1.3	32*0.08



COMMERCIAL REFRIGERATION

- Supermarket Showcase
- Condensing Unit

COMMERCIAL REFRIGERATION

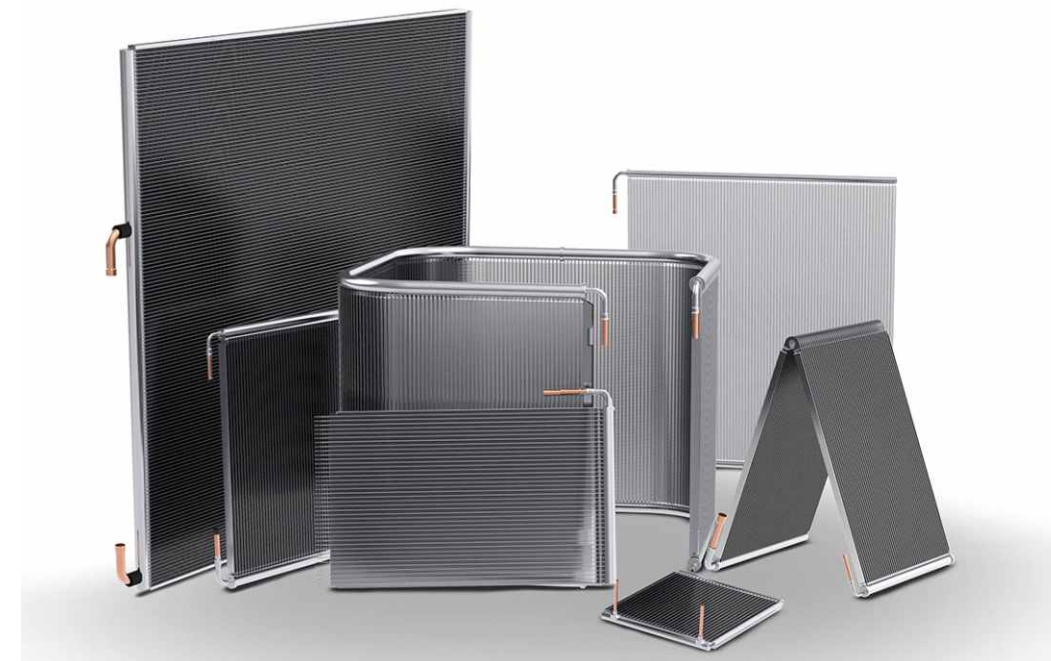
SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	FIN
Material	3003+4343	9153a+Zn	4343+3003+4343
		3F03+Zn	
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	25*1.8	20*2	20*0.08
	26*1.9	20*.6*1.3	20.6*0.08
	32*2.5	25.4*1.3	25.4*0.08
	38*2.5	32*2	32*0.08
	38*2.5	32*1.3	32*0.08
	42*2.5	36*2	36*0.08

LIGHT COMMERCIAL REFRIGERATION

- Ice Maker
- Ice Cream Machine
- Condensing Unit For Light Commercial Refrigeration
- Chest Freezer
- Vending Machine

LIGHT COMMERCIAL REFRIGERATION



SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	Fin
Material	3003/4045	3F03+Zn	4343/3003/4343
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	26*1.9	20.6*1.3	20.6*0.08
	26*1.9	20*2	20*0.08
	32*2	25.4*1.3	25.4*0.08
	32*2.5	26*2	26*0.08
	38*2.2	32*1.3	32*0.08

AUTOMOBILE AC&R

- Transport Refrigeration Air Conditioning
- Bus Air Condition Air Conditioning
- Railway & Subway Air Conditioning
- Marine Air Conditioning

AUTOMOBILE AC&R



SPECIFICATIONS

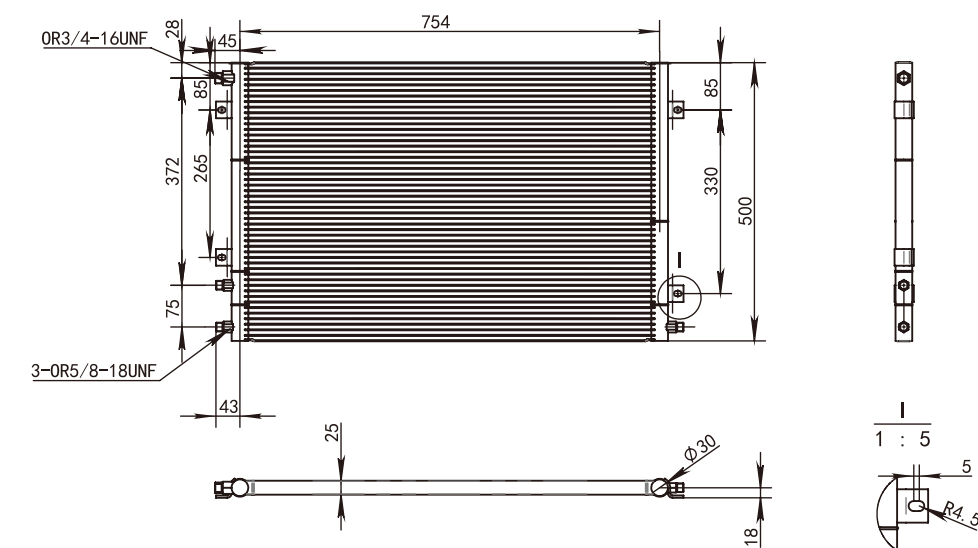
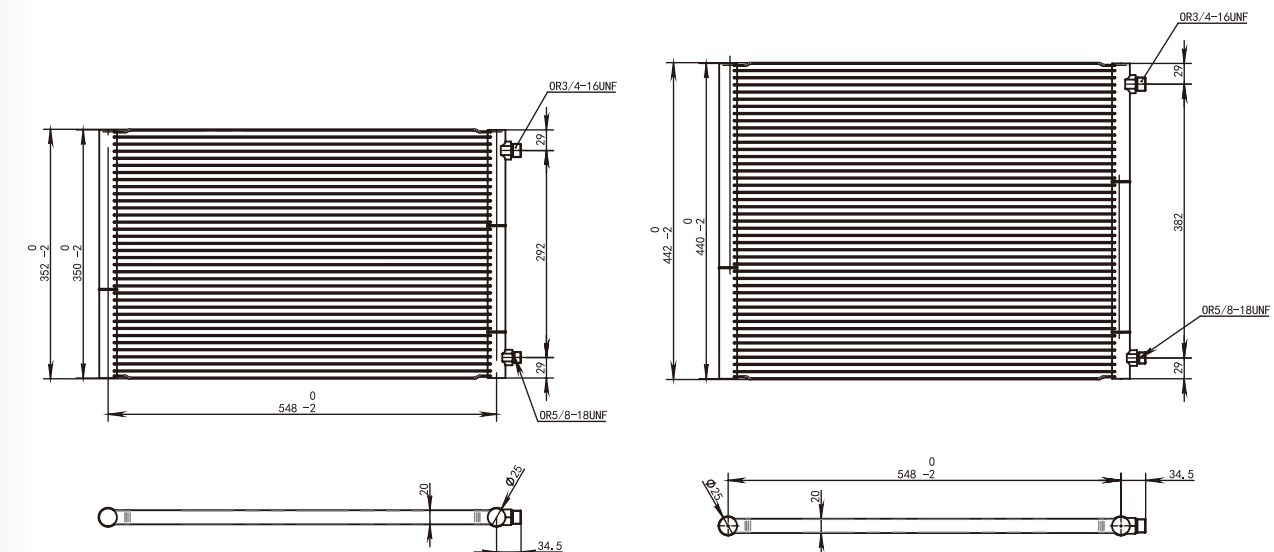
Name	Collecting Pipe	Flat Tube	FIN
Material	3003+4343	9153a+Zn	4343+3003+4343
		3F03+Zn	
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	25*1.8	20*2	20*0.08
	26*1.9	20*.6*1.3	20.6*0.08
	30*1.5	25.4*2	25.4*0.08
	38*2.5	32*2	32*0.08
	38*2.5	32*1.3	32*0.08
	42*2.5	36*2	36*0.08

AUTOMOBILE AC&R

·Transport Refrigeration Air Conditioning

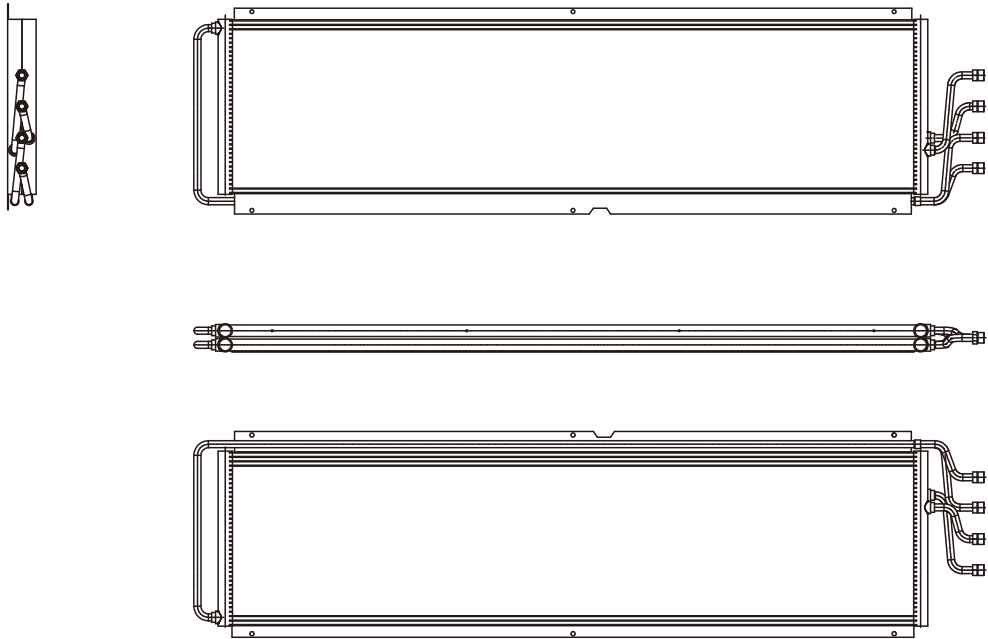
AUTOMOBILE AC&R

·Transport Refrigeration Air Conditioning





PRECISION
AIR CONDITIONING



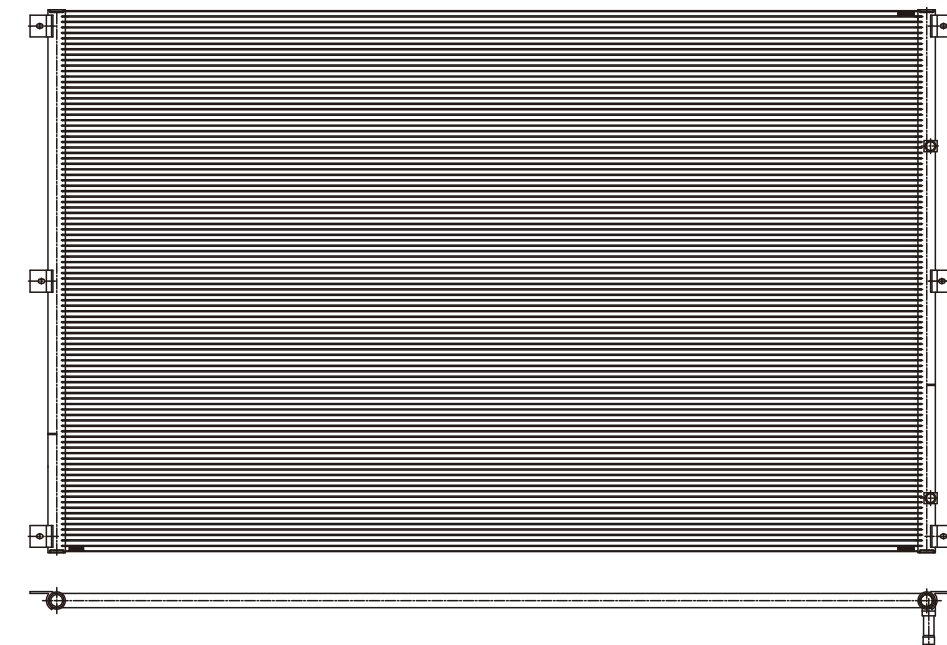
SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	FIN
Material	3003+4343	9153a+Zn	4343+3003+4343
		3F03+Zn	
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	16*1.2	12*1.4	12*0.08
	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	25*1.8	20*2	20*0.08
	26*1.9	20*.6*1.3	20.6*0.08
	30*1.5	25.4*2	25.4*0.08
	32*2.5	25.4*1.3	25.4*0.08
	38*2.5	32*2	32*0.08
	38*2.5	32*1.3	32*0.08
	42*2.5	36*2	36*0.08

HEAT PUMP

- Heat Pump Water Heater
- Heat Pump Dryer
- Heat Pump For Swimming Pool

HEAT PUMP



SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	Fin
Material	3003/4045	3F03+Zn	4343/3003/4343
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	26*1.9	20.6*1.3	20.6*0.08
	26*1.9	20*2	20*0.08
	32*2	25.4*1.3	25.4*0.08
	32*2.5	26*2	26*0.08
	38*2.2	32*1.3	32*0.08

COMMERCIAL REFRIGERATION

- Module Air Cooled Chiller
- VRF
- Rooftop Unit
- Air handle Unit

COMMERCIAL REFRIGERATION

SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	FIN
Material	3003/4045	3F03+Zn	4343/3003/4343
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	26*1.9	20.6*1.3	20.6*0.08
	26*1.9	20*2	20*0.08
	32*2	25.4*1.3	25.4*0.08
	32*2.5	26*2	26*0.08
	38*2.2	32*1.3	32*0.08



DOMESTIC
AIR CONDITIONING

DOMESTIC
AIR CONDITIONING



SPECIFICATIONS

Name	Collecting Pipe	Flat Tube	FIN
Material	3003/4045	3F03+Zn	4343/3003/4343
		3102+Zn	
	OD*T(mm)	W*T(mm)	W*T(mm)
Specification	20*1.5	16*1.3	16*0.08
	20*1.5	16*1.8	16*0.08
	26*1.9	20.6*1.3	20.6*0.08
	26*1.9	20*2	20*0.08
	32*2	25.4*1.3	25.4*0.08
	32*2.5	26*2	26*0.08
	38*2.2	32*1.3	32*0.08

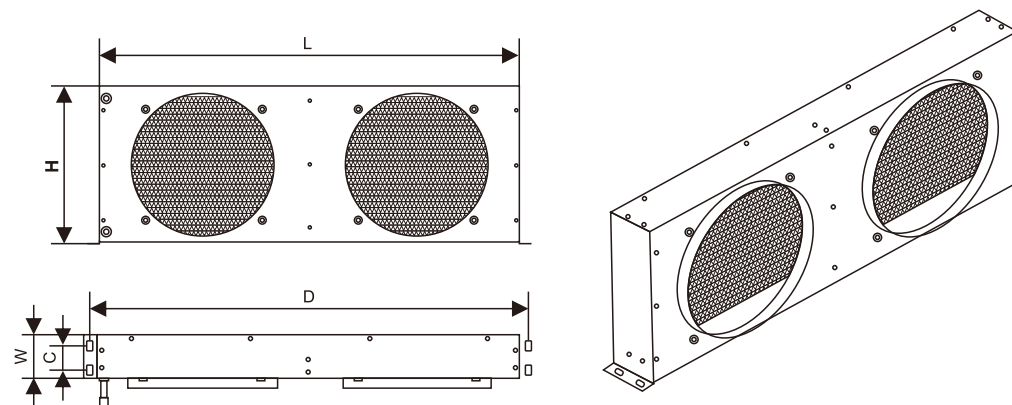
NEW ENERGY

- New Energy Automobile
- New Energy Car Charging Pile

NEW ENERGY

RFHA-L SERIES

Horizontal Discharge Micro Channel Heat Exchanger
Low Height Type For Refrigeration



R290

Model	Capacity Operating (W)	Air Flow (m ³ /h)	Equivalent Heat Transfer Area (m ²)	Proposed Fan And Motor			Size Of I/O Pipe		Thickness Of MCHE (mm)	LxWxH (mm)	DxC (mm)
				Fan Diameter (mm)	Fan Number	Nominal Air Flow (m ³ /h)	Diameter Of Inlet Pipe (mm)	Diameter Of Outlet Pipe (mm)			
RFHA-L037	840	230	2.8	200	1	455	6.35	6.35	20.6	284x80x240	308x39
RFHA-L031	942	330	2.1	200	2	455	8	8	16	286x68x240	310x40
RFHA-L032	1086	330	2.9	200	1	455	8	8	16	386x68x240	410x40
RFHA-L033	1947	550	5.9	200	2	450	9.52	9.52	20.6	589x73x240	610x40
RFHA-L034	1452	660	3.0	200	2	455	8	8	12	607x65x237	629x35
RFHA-L035	2105	660	5.3	200	2	455	8	8	16	656x68x242	677x35
RFHA-L036	2502	700	7.0	200	2	455	9.52	9.52	20.6	676x73x242	697x35
RFHA-L074	2766	870	6.6	200	3	455	9.52	8	16	800x67x240	824x40
RFHA-L075	1898	600	4.7	200	2	455	9.52	9.52	16	586x67x240	610x40

Condensing Temp.: +47°C Ambient Temp.: +32°C Sub-cooling Temp.: +5°C Air RH : 50% Discharge Temp : 67°C

R404A/R134a

Model	Capacity Operating (W)	Air Flow (m ³ /h)	Equivalent Heat Transfer Area (m ²)	Proposed Fan And Motor			Size Of I/O Pipe		Thickness Of MCHE (mm)	LxWxH (mm)	DxC (mm)
				Fan Diameter (mm)	Fan Number	Nominal Air Flow (m ³ /h)	Diameter Of Inlet Pipe (mm)	Diameter Of Outlet Pipe (mm)			
RFHA-L037	2010	1660	2.8	200	1	455	6.35	6.35	20.6	284x80x240	308x39
RFHA-L031	1830	1720	2.1	200	1	455	8	8	16	286x68x240	310x40
RFHA-L032	2730	2510	2.9	200	1	455	8	8	16	386x68x240	410x40
RFHA-L033	4870	4590	5.9	200	2	455	9.52	9.52	20.6	589x73x240	610x40
RFHA-L034	3080	2810	3.0	200	2	455	18 /	8	16	607x65x237	629x35
RFHA-L035	4870	4530	5.3	200	2	455	8	8	16	656x68x242	677x35
RFHA-L036	5650	5250	7.0	200	2	455	9.52	9.52	20.6	676x73x242	697x35
RFHA-L074	6230	5699	6.6	200	3	455	9.52	8	16	800x67x240	824x40
RFHA-L075	4275	3985	4.7	200	2	455	9.52	9.52	16	586x67x240	610x40

Condensing Temp.: +40°C Ambient Temp.: +25°C Sub-cooling Temp.: +5°C Air RH : 50% Discharge Temp : 60°C

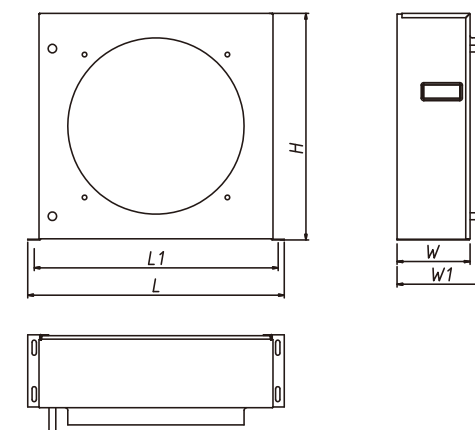
Notes

- 1) RFHA series is single row micro channel heat exchanger.
- 2) The equivalent heat transfer area means the surface area of the tube and fin heat exchanger with the same capacity.
- 3) The Parallel flow design pressure is 4.5MPa, Serpentine design pressure is 3.1MPa.
- 4) The size of the individual type of copper pipe and the shroud can be adjusted according to the requirements.
- 5) The heat transfer capacity above is calculated under the nominal operating conditions (see table upper).

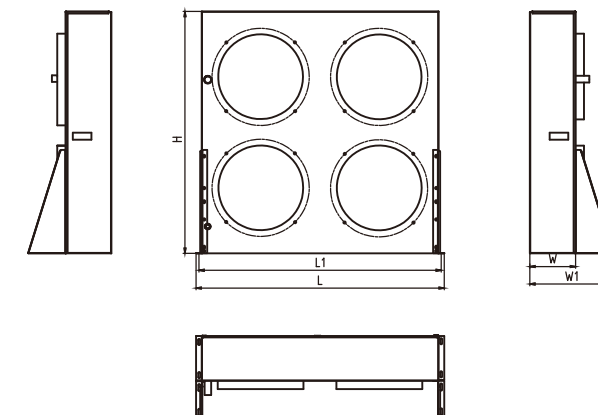
RFHA SERIES

Horizontal Discharge Micro Channel Heat Exchanger

RFHA-5 To RFHA-24



RFHA-30 To RFHA-82



Model	Capacity KW	Motor Size	Air Volume (m ³ /h)	Inlet Ø (mm)	OutLetØ (mm)	L	W	W1	H	L1	Fix Hole
RFHA-5	5	Ø350	2800	Ø12.7	Ø12.7	582	140	240	520	552	10x30
RFHA-8	8	Ø400	3200	Ø15.88	Ø15.88	596	170	280	527	566	10x35
RFHA-11	11	Ø450	4000	Ø15.88	Ø15.88	646	170	280	577	616	10x35
RFHA-14	14	Ø500	5400	Ø19	Ø15.88	696	170	280	627	666	10x35
RFHA-19	19	Ø550	7800	Ø19	Ø15.88	746	170	290	677	716	10x35
RFHA-24	24	Ø550	9750	Ø25	Ø15.88	976	170	290	817	946	10x35
RFHA-30	30	Ø500x2	10800	Ø25	Ø19	1250	170	280	677	1220	10x35
RFHA-35	35	Ø500x2	10800	Ø25	Ø19	1406	170	280	735	1376	10x35
RFHA-41	41	Ø500x2	10800	Ø25	Ø19	1397	170	402	787	1367	10x35
RFHA-45	45	Ø400x4	12800	Ø35	Ø22	1200	220	402	1170	1170	10x35
RFHA-55	55	Ø450x4	16000	Ø35	Ø22	1530	220	402	1120	1500	10x35
RFHA-65	65	Ø500x4	21600	Ø35	Ø28	1750	220	402	1170	1720	10x35
RFHA-82	82	Ø500x6	32400	Ø35	Ø28	2030	220	402	1170	2000	10x35

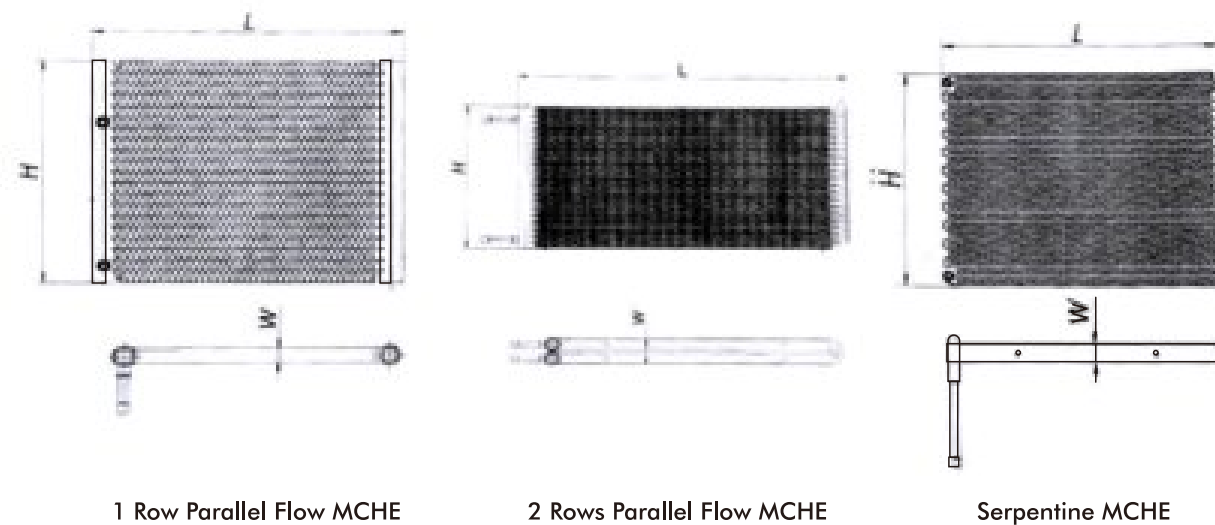
Condensing Temp.: +45°C

Ambient Temp.: +32°C

Sub-cooling Temp.: +5°C

RFHA-P SERIES

Household & Commercial Use Micro Channel Heat Exchanger



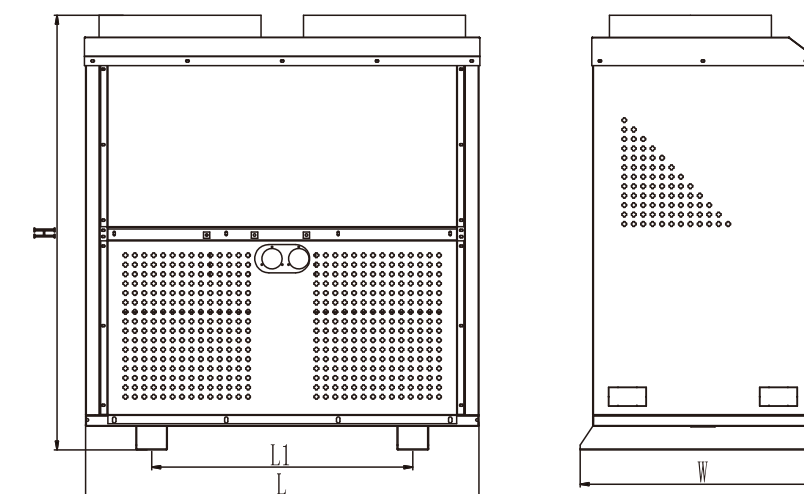
Model	LxH(mm)	Thickness Of MCHE (mm)	FPI Fin Density (Fins Per Inch)	Row Number&Pass Number	Louvered Or Not	Type
RFHA-P002	163x150	16	12	1 Row & 1 Pass	Yes	Serpentine
RFHA-P003	182x296	12	14	2 Row & 4 Pass	Yes	Parallel Flow
RFHA-P005	190x193	20	10	1 Row & 1 Pass	Yes	Serpentine
RFHA-P006	193x225	32	12.7	1 Row & 1 Pass	No	Serpentine
RFHA-P007	196x150	16	12.7	1 Row & 2 Pass	Yes	Parallel Flow
RFHA-P008	200x210	20	10	1 Row & 1 Pass	Yes	Serpentine
RFHA-P009	458x201	20.6	16	1 Row & 4 Pass	Yes	Parallel Flow
RFHA-P010	203x215	25.4	8.5	1 Row & 1 Pass	Yes	Serpentine
RFHA-P011	230x194	12	14	1 Row & 2 Pass	Yes	Parallel Flow
RFHA-P012	234x233	25.4	12	1 Row & 1 Pass	Yes	Serpentine
RFHA-P013	245x247	12	16	1 Row & 4 Pass	Yes	Parallel Flow
RFHA-P014	256x259	12	16	2 Row&3Pass	Yes	Parallel Flow
RFHA-P015	265x249	16	12.7	1 Row & 1 Pass	Yes	Serpentine
RFHA-P016	265x253	25.4	12	1 Row&1 Pass	Yes	Serpentine
RFHA-P017	265x254	20	12.7	1 Row &1 Pass	Yes	Serpentine

Note:

- 1.Design pressure: Serpentine 3.1Mpa, Parallel flow 4.5Mpa
- 2.Copper pipe is adjustable
- 3.Shroud is Optional

RFDA SERIES

Vertical Discharge Micro Channel Heat Exchanger With Box



Model	Capacity KW	Motor Size	Air Volume (m³/h)	Fan Power	Fan Voltage	Inlet Ø (mm)	OutLetØ (mm)	L	H	W	L1	W1
RFDA-16	16	Ø500	7150	828	380	Ø22	Ø15.88	897	1262	707	590	1362
RFDA-23	23	Ø400*2	7900	360	380	Ø25	Ø19	1197	1262	707	770	1362
RFDA-29	29	Ø500*2	14300	828	380	Ø25	Ø22	1257	1312	707	830	1412
RFDA-33	33	Ø500*2	14300	828	380	Ø28	Ø25	1327	1312	707	900	1412
RFDA-41	41	Ø500*2	14300	828	380	Ø28	Ø25	1427	1312	707	1000	1412

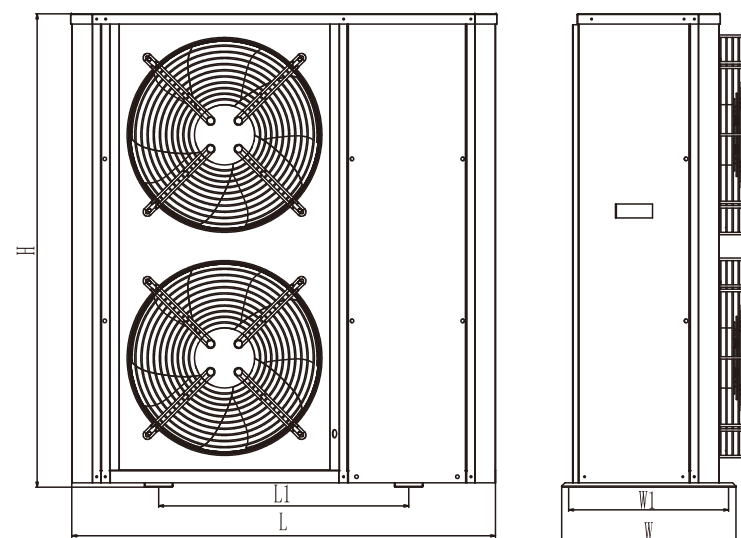
Condensing Temp.:+45°C

Ambient Temp.: +32°C

Sub-cooling Temp.:+5°C

RFGA SERIES

Horizontal Discharge Micro Channel Heat Exchanger With Box



Model	Capacity KW	Motor Size	Air Volume (m ³ /h)	Inlet Ø (mm)	OutLetØ (mm)	L	H	W	L1	W1
RFGA-9	9	Ø450	3700	Ø12.7	Ø9.52	1039	602	425	610	385
RFGA-11	11	Ø450	3700	Ø12.7	Ø9.52	1039	708	425	610	385
RFGA-15	15	Ø400*2	6600	Ø15.88	Ø12.7	1039	954	425	610	385
RFGA-17	17	Ø450*2	7400	Ø15.88	Ø12.7	1039	1054	425	610	385
RFGA-20	20	Ø450*2	7400	Ø19	Ø15.88	1039	1154	425	610	385
RFGA-23	23	Ø450*2	7400	Ø22	Ø19	1039	1154	425	610	385

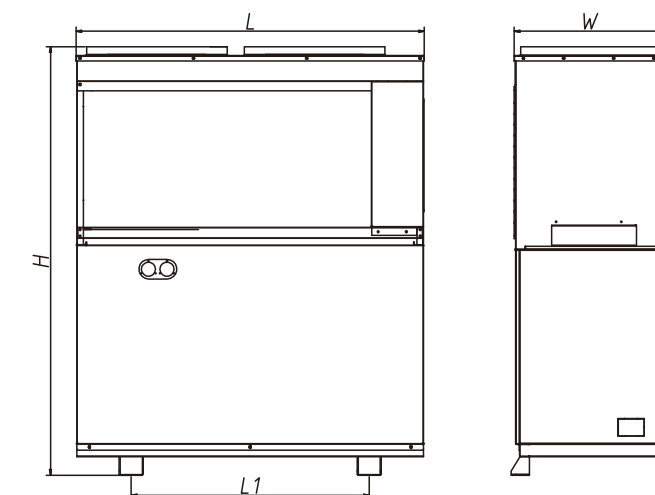
Condensing Temp.:+45°C

Ambient Temp.: +32°C

Sub-cooling Temp.:+5°C

RFVA SERIES

Vertical Discharge Micro Channel Heat Exchanger V Type With Box



Model	Capacity KW	Motor Size	Air Volume (m ³ /h)	Fan Power	Fan Voltage	Inlet Ø (mm)	OutLetØ (mm)	L	H	W	L1
RFVA-45	45	550*2	17440	1200	380	Ø32	Ø25	1320	1853	700	815
RFVA-50	50	550*2	17440	1200	380	Ø32	Ø25	1320	1860	700	815
RFVA-58	58	600*2	21640	1560	380	Ø32	Ø25	1410	1860	700	905
RFVA-70	70	630*2	24400	1600	380	Ø35	Ø28	1600	1940	700	1095
RFVA-94	94	600*3	32460	2340	380	Ø42	Ø35	2020	1940	700	1513
RFVA-115	115	630*3	36600	2400	380	Ø42	Ø35	2320	1940	700	1815
RFVA-150	150	550*6	47700	2160	380	Ø42	Ø35	2166	2181	1256	1666

Condensing Temp.:+45°C

Ambient Temp.: +32°C

Sub-cooling Temp.:+5°C

Micro Channel Heat Exchangers-Coatings And Applications

Coating description

Coating Type	3102+Zn	LLA3F03+Zn	LLA3F03+UV	LLA3F03+TCP	E-coating
Coating material	Zinc	Zinc	Epoxy resin	Cr3+	EoxyResin
Coaling thickness	7±2g/m On fiattube	7±2g/m On fiattube	120~170µm On both sides	≤5µm All surfaces	5-40µm surfaces
Processing methods	Spraying molten zine	Spraying molten zine	Electrostatic Spraying	Immersion	Immersion Power ups
Impact on capacity	No	No	Air resistance up	Ignore	Air resistance up
SWAAT life	1000hr	1500hr	1600hr	2500hr	4000hr

Using Zoon & Application

Area	Latitude	Offshore	0~20Km	20-50Km	50-100Km	>100Km
Tropical zone	S/N0-23.5	E-coating	E-coating	E-coating	LLA3F03+TCP	LLA3F03+Zn
Temperate zone	S/N 23.5-66.5	E-coating	E-coating	LLA3F03+TCP	LLA3F03+Zn	3102+Zn
Frigid zone	SIN 66.5-90	E-coating	LLA3F03+TCP	LLA3F03+Zn	3102+Zn	3102+2n

Notes

Micro Channel Heat Exchangers -Notice

1.Receiving inspection

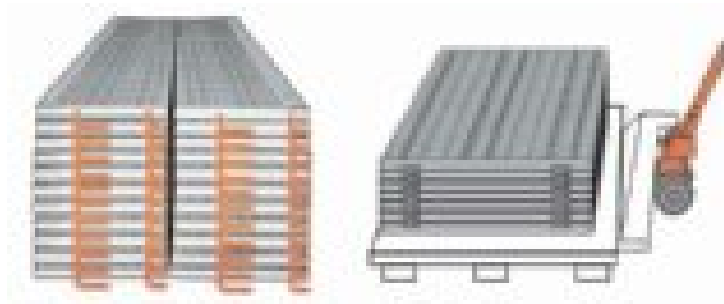
The receiving clerk needs to check the product package when received, in case of any damage, deformation, damp. If you have found the above situation, please contact with our sales team or QC person for assistance, we will give you feedback immediately.

2.Open-case inspection

Open the plywood case from the top side and check the product' s situation. If any damage occurs, please take photos as a record and contact our sales team or QC person to seek for a solution. 100% of our products have passed the helium inspection with the leakage standard of 2 grams per year. All non-air shipment products will be charged with 1-2 bar nitrogen. Rubber plug or needle valve need to be removed before using. Do observe if there is any gas come out with a hissing sound. If yes, it means the product can be normally use. Otherwise, please immediately contact our sales team or QC person for assistance.

3. Product handling

The product needs to be carefully handled to avoid collision due to the full aluminum structure of its main body. Products shall be placed on a fit-size tray for a long distance carrying, which shall be separated by the cardboard or cushion pad between every 2 items and the bottom of downmost product. And then carried by forklift(Figure 2).Header tube and side plate are the bearing position that can be applied for proper lifting and handling.

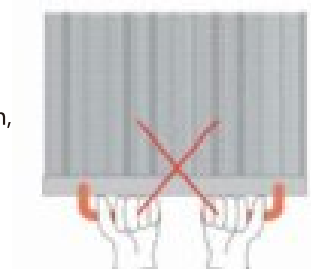


(Figure 1)

(Figure 2)

Product placement and handling (Figure 1, Figure 2)

Directly holding the inlet & outlet pipe for handling is strictly forbidden, which could be very likely to result in the severe damage of pipe welding spot(Figure 3)



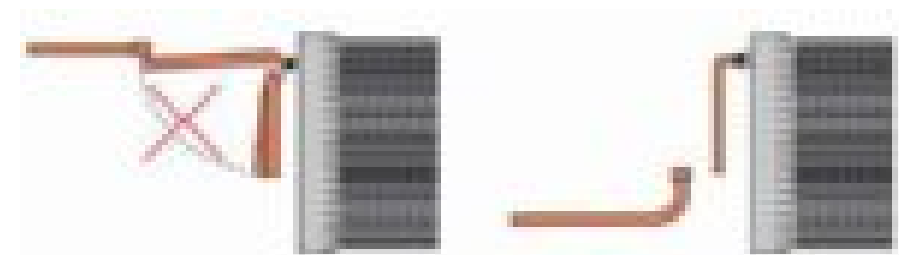
Incorrect handling way (Figure 3)

4.Product assembly

Since the damage of load bearing part may leads to the product malfunction, installation condition needs to be evaluated on spot to avoid any collision.

Directly pulling back the connecting pipe (Figure 4) is strictly forbidden when any deviation appears. The deviation can be revised by adding a proper connecting pipe.(Figure 5).

Checking the tightness of bolt, slot and buckle after the product is installed in the right position.



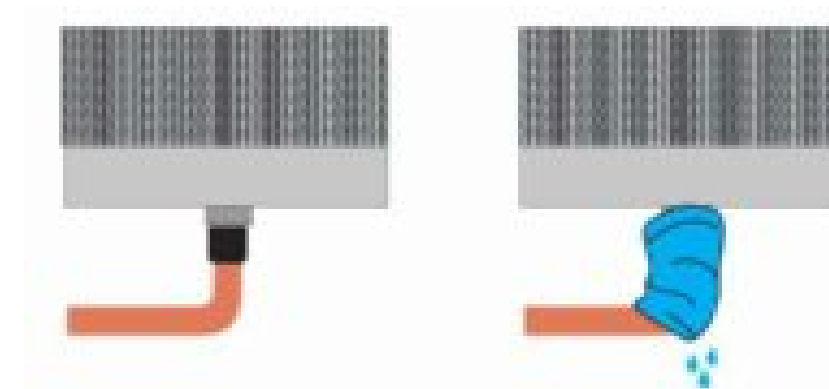
Faulty operation (Figure 4)

Correct operation (Figure 5)

5. Product connection

The connecting ways of product usually include copper pipe welding, flange joint connecting and thread joint connecting. welding protection(Figure 6)

The safe welding temperature for our product is 400 degrees, welding point is likely to get failed if temperature exceeds the safe range. Please ensure that the distance from the welding point shall be more than 80mm when clients take welding by himself and the temperature is over 850 degrees. Meanwhile, please use wet cloth(better with no drop of water) to provide protection for heat shrinkable tube and Copper-Aluminum welding point (Figure 6).



Heat-resistance welding protection (Figure 6)