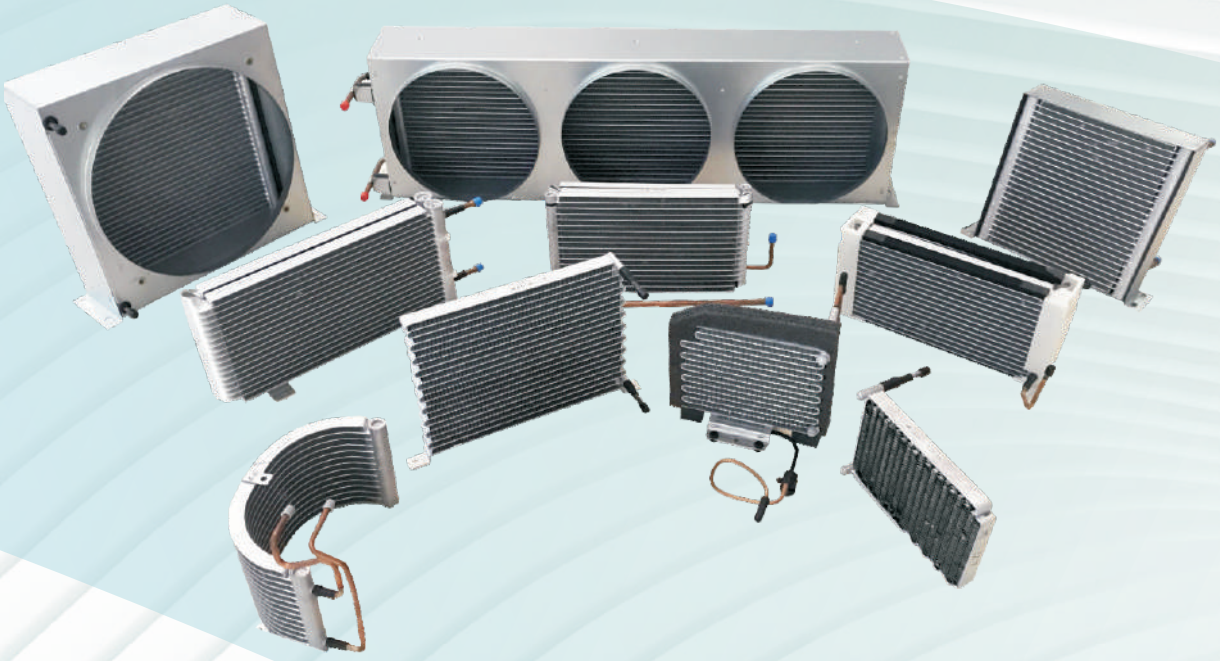
SANHUA

MICRO-CHANNEL HEAT EXCHANGERS



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SINCE 1984

MCHE Catalogue V002

SUMMARY

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SANHUA MCHE Standard Range
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SINGLE FAN

	DIMENSIONS Length x Height [mm]	Flat Tube Width [mm]	
Series **EU01** Condenser	230 x 200	12	07
Series **EU02** Condenser	230 x 200	16	08
Series **EU03** Condenser	270 x 230	16	09
Series **SH037** Condenser	283 x 240	20	10
Series **SH031** Condenser	286 x 240	16	11
Series **EU04** Condenser	300 x 240	16	12
Series **SH032** Condenser	385 x 240	16	13
Series **EU05** Condenser	280 x 260	16	14
Series **EU06** Condenser	360 x 260	16	15
Series **EU07** Condenser	370 x 280	16	16
Series **EU08** Condenser	400 x 280	16	17
Series **EU09** Condenser	380 x 300	16	18
Series **EU10** Condenser	380x380	16	19
Series **EU11** Condenser	450x380	16	20
Series **EU21** Condenser	620x402	20.6	21

DOUBLE FAN

	DIMENSIONS Length x Height [mm]	Flat Tube Width [mm]	
Series **EU12** Condenser	460x203	16	22
Series **EU13** Condenser	500x241	16	23
Series **SH075** Condenser	585 x 240	16	24
Series **EU14** Condenser	600x240	20,6	25
Series **SH034** Condenser	607 x 237	12	26
Series **SH035** Condenser	656 x 242	16	27
Series **SH036** Condenser	676 x 242	20,6	28
Series **EU15** Condenser	640x260	20	29
Series **EU16** Condenser	640x280	16	30
Series **EU17** Condenser	710x280	20.6	31
Series **EU22** Condenser	700x379	16	32

TRIPLE FAN

Series **EU18** Condenser	750x232	16	33
Series **EU19** Condenser	800x260	16	34
Series **EU20** Condenser	870x261	20.6	35

Note: Conditions could change without previous notice due to components updating or typing mistakes.
Sanhua declines any responsibility for a wrong product choice based on this table. Please make sure all your requirements are covered in our suggestion.

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"Strive for perfection, ***Pursuit of excellence"***

Sanhua is a leading Commercial Refrigeration manufacturer of controls and components with a global footprint and 30 years of experience. Our co-operation with the largest companies in the Automotive, Appliance, HVAC and Commercial Refrigeration industry makes Sanhua a leading worldwide OEM supplier providing the highest quality components at the most competitive price.

Furthermore, strategic acquisitions by Sanhua of leading Refrigeration brands such as Ranco and Aweco and joint venture projects with Danfoss transformed Sanhua into one of the largest manufacturers of Expansion, Solenoid and Reversing Valves with annual valve sales exceeding 100 Million pieces.

SANHUA IS LISTED IN TOP 100 STRONGEST CHINESE INDUSTRIAL BRANDS.

After sustainable growth over the last 3 decades, Sanhua have made significant progress to introduce a comprehensive range of Micro Channel Heat Exchanger、controls and line components for the Refrigeration Industries and Commercial Air conditioning and to increase its service level coverage in the most important European markets.

SANHUA
ELECTRONIC *Kit*

Simple like never before!

SOLENOID VALVES

"Yearly SANHUA supplies over 20 Million solenoid valves to the refrigeration, HVAC&R and home appliances Industries worldwide."

THE LEADING EDGE IN CLIMATE TECHNOLOGY

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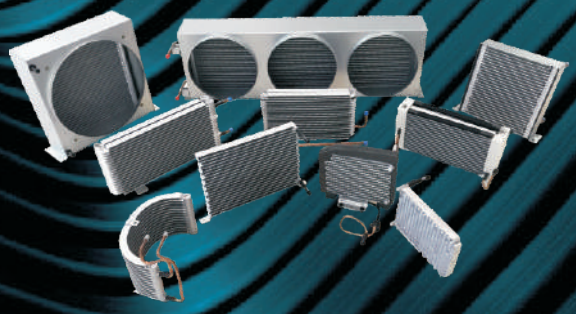
MICRO-CHANNEL HEAT EXCHANGERS

"SANHUA is the world's largest producer of micro-channel heat exchangers"



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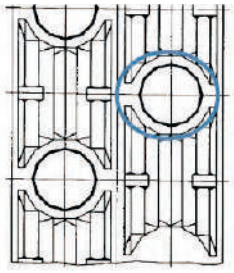
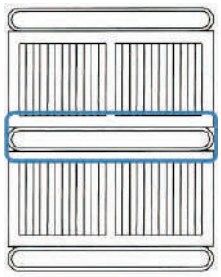
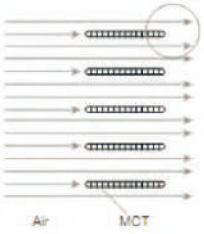
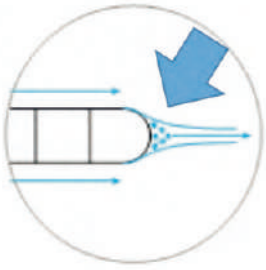
Micro-Channel Heat Exchangers- Standard Range

BENEFITS – Comparison with Fin & Tubes technology









1. Higher Heat Transfer:
   (Based on the same footprint)
2. Higher Internal Heat Transfer Coeffcient:
   tubes with small section provide higher refrigerant speed and higher turbulence besides a bigger internal surface
3. Higher External Heart Transfer Coefficient:
   the overall tubes surface touched by the air is much bigger than in T&F coils
4. Reduction on Footprint
   (Based on the same heat rejection)
5. Less Air Pressure Drops
   (Based on same heat rejection and same air speed value)
6. Smaller Internal Volume & Refrigerant Charge Reduction (up to 70%)
   Excellent solution for CR refrigerant (flamable R290)
7. Compact dimension and limited Weight
8. No risk of galvanic corrosion
   (Coil 100% in Aluminum alloy)
9. Coil 100% in Aluminum alloy with Zinc coating
10. Coil easy to recycle (100% aluminum)

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Micro-Channel Heat Exchangers- Standard Range

Common Nominal Working Conditions

The Heat Rejection data valid for all the standard coils, present in the performance table in this catalogue has been calculated according to the following Nominal Working Conditions:

Nominal Working Conditions	Metric units		
Inlet Air Temperature	°C	32	TA.in
Inlet Relative Humidity	%	50	RH
Sub-Cooling	K	2	SC
Input data: (ΔT=10 K)			
Condensing Temperature	°C	42	TC
Inlet refrigerant temperature	°C	62	
Input data: (ΔT=15 K)			
Condensing Temperature	°C	47	TC
Inlet refrigerant temperature	°C	67	

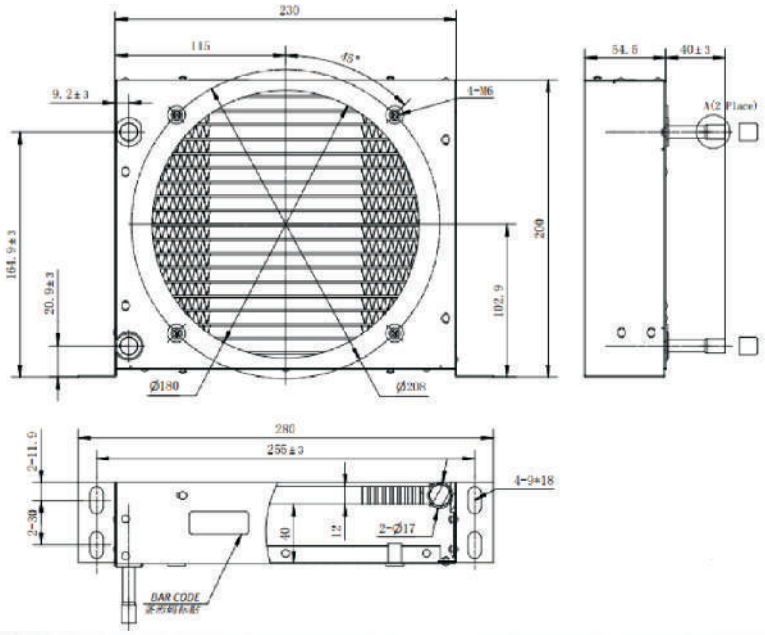
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU01 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	230	(L)
Length with bracket	mm	280	(L1)
Total height	mm	200	(H)
Total Width	mm	54	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	12	
FPI		10	
Fan number		1	
Fan size	mm	Ø 172	
Total internal volume	liters	0.0818	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU01	212	235	381	236	401	223	388	237	395



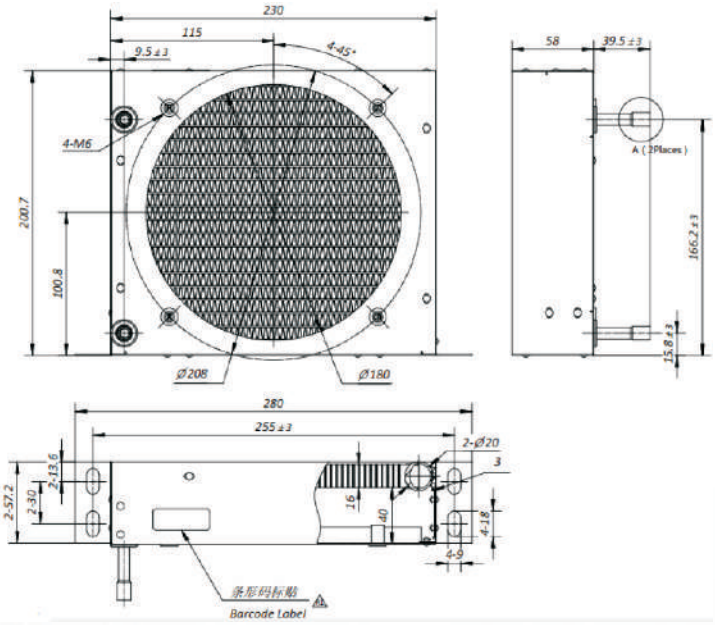
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU02 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	230	(L)
Length with bracket	mm	280	(L1)
Total height	mm	200	(H)
Total Width	mm	58	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 172	
Total internal volume	liters	0.1061	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU02	185	304	523	305	534	292	519	300	527



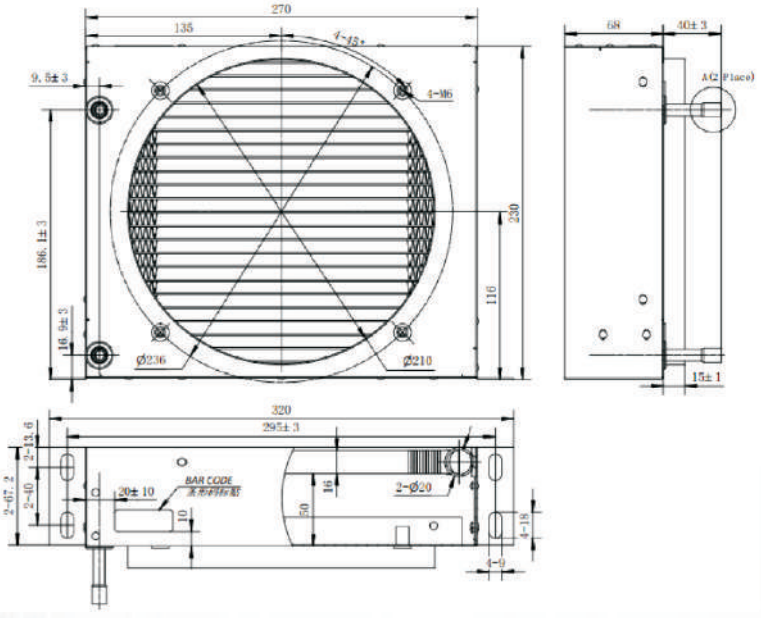
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU03 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	270	(L)
Length with bracket	mm	320	(L1)
Total height	mm	230	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1285	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU03	297	514	847	525	858	510	832	515	848



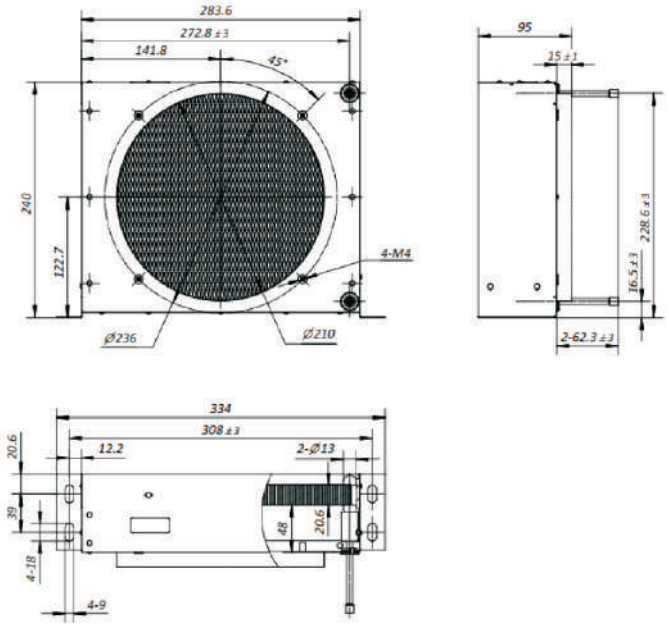
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

SH037 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	283	(L)
Length with bracket	mm	334	(L1)
Total height	mm	240	(H)
Total Width	mm	80	(W)
Inlet connection (OD)	mm	Ø 6.35	(Ø IN)
Outlet connection (OD)	mm	Ø 6.35	(Ø OUT)
Tube Width	mm	20	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1221	
Physical Characteristics			
Max. Operating Pressure*:	MPa	3.5	(PS)
Burst pressure:	MPa	10.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
SH037	325	663	1021	678	1026	655	1012	668	1024



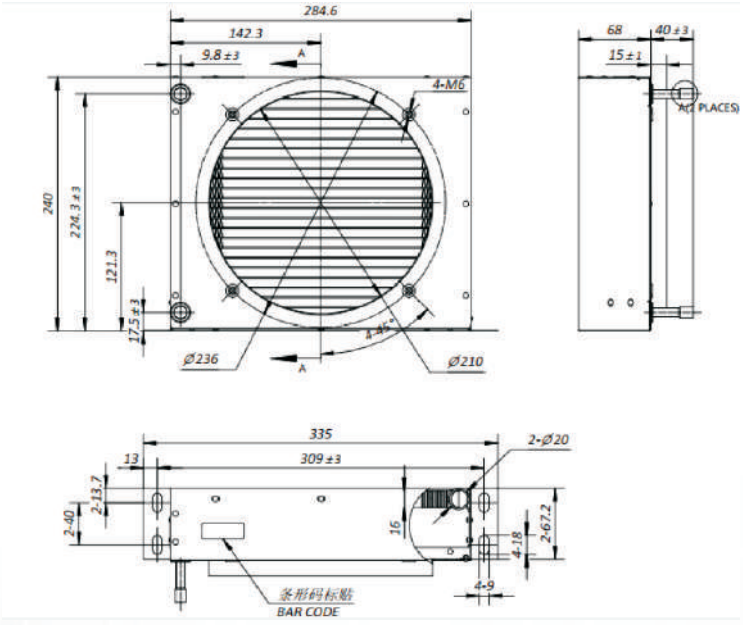
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

SH031 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	286	(L)
Length with bracket	mm	336	(L1)
Total height	mm	240	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1367	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
SH031	320	558	933	585	945	556	917	577	934



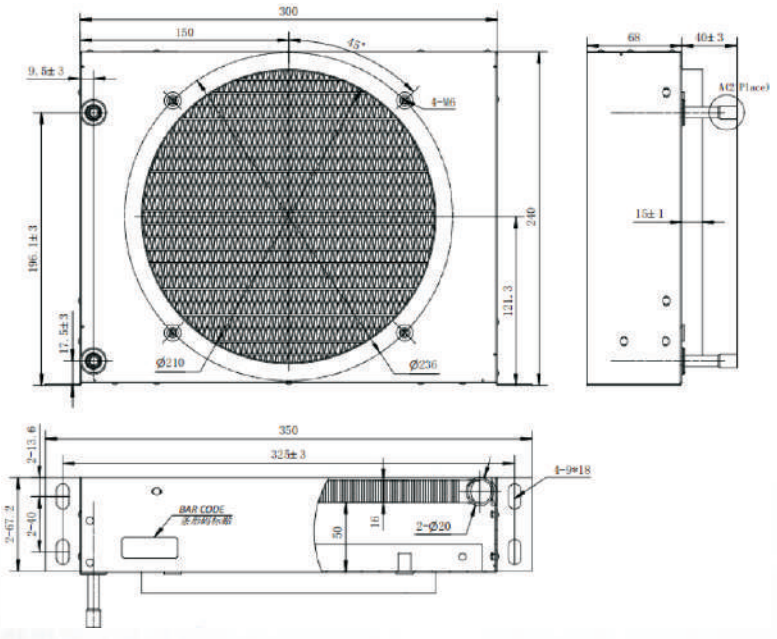
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU04 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	300	(L)
Length with bracket	mm	350	(L1)
Total height	mm	240	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1392	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		△T=10K	△T=15K	△T=10K	△T=15K	△T=10K	△T=15K	△T=10K	△T=15K
EU04	326	585	970	621	983	583	957	604	972



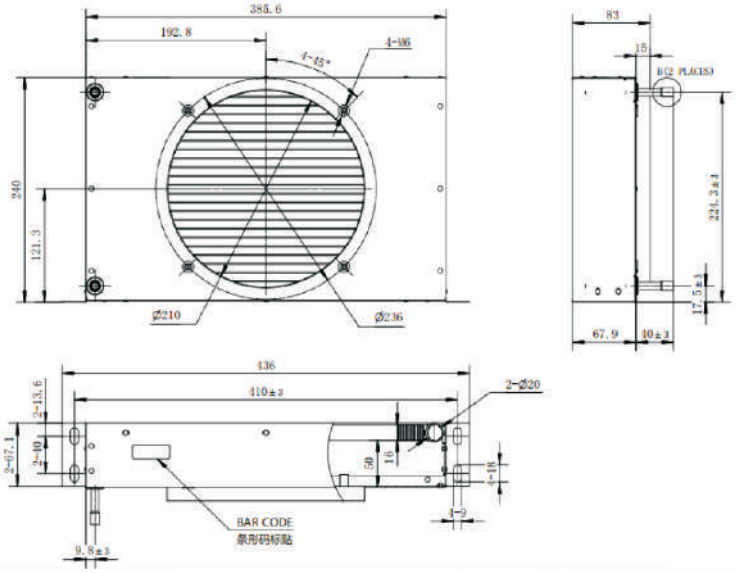
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

SH032 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	385	(L)
Length with bracket	mm	436	(L1)
Total height	mm	240	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1536	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
SH032	370	755	1195	767	1206	740	1177	758	1197



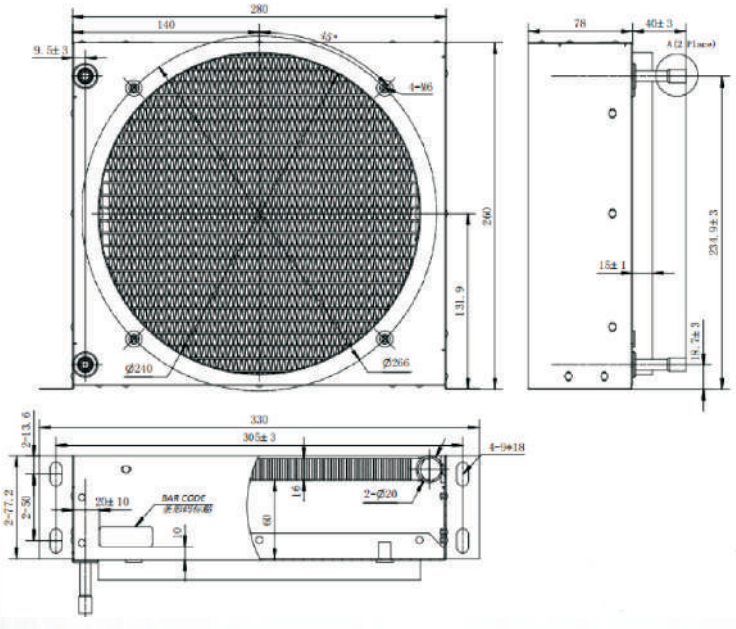
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU05 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	280	(L)
Length with bracket	mm	330	(L1)
Total height	mm	260	(H)
Total Width	mm	78	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 230	
Total internal volume	liters	0.1471	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU05	452	733	1197	761	1214	724	1183	739	1203



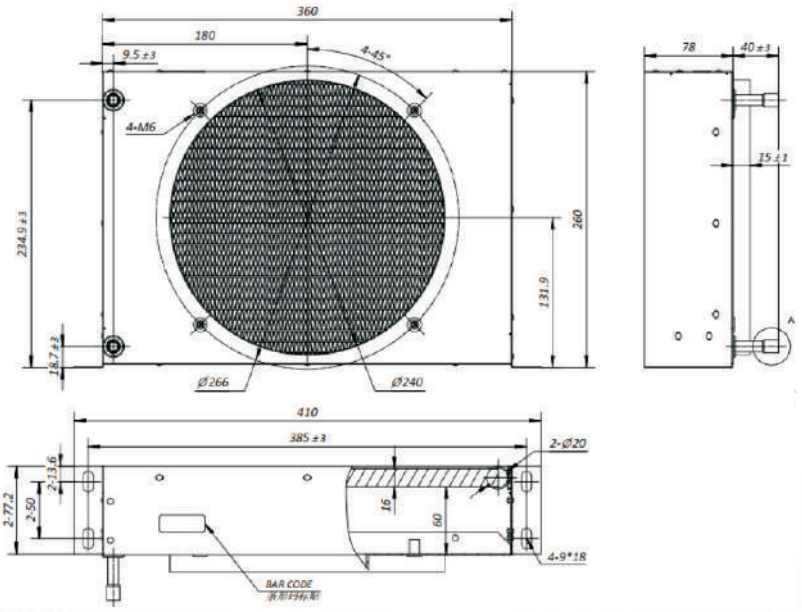
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU06 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	360	(L)
Length with bracket	mm	410	(L1)
Total height	mm	260	(H)
Total Width	mm	78	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 230	
Total internal volume	liters	0.1618	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU06	544	973	1551	1002	1568	956	1533	978	1556



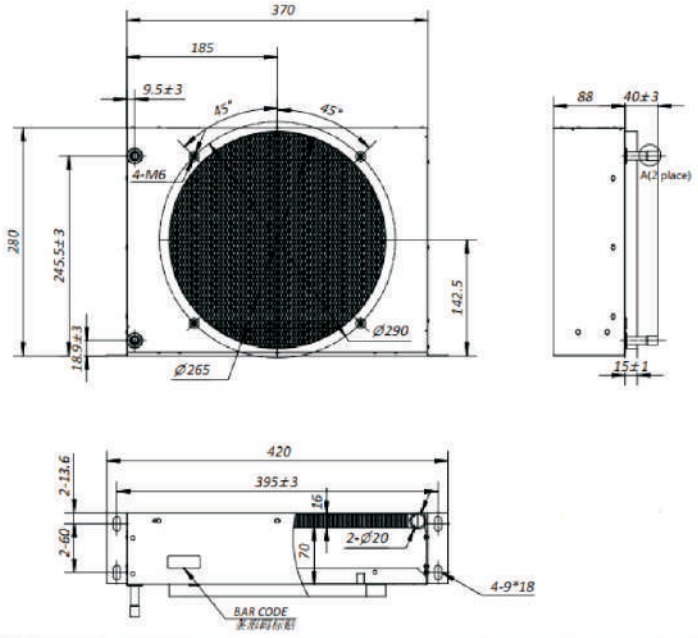
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU07 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	370	(L)
Length with bracket	mm	420	(L1)
Total height	mm	280	(H)
Total Width	mm	88	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 250	
Total internal volume	liters	0.1763	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU07	678	1168	1857	1196	1892	1144	1842	1172	1863



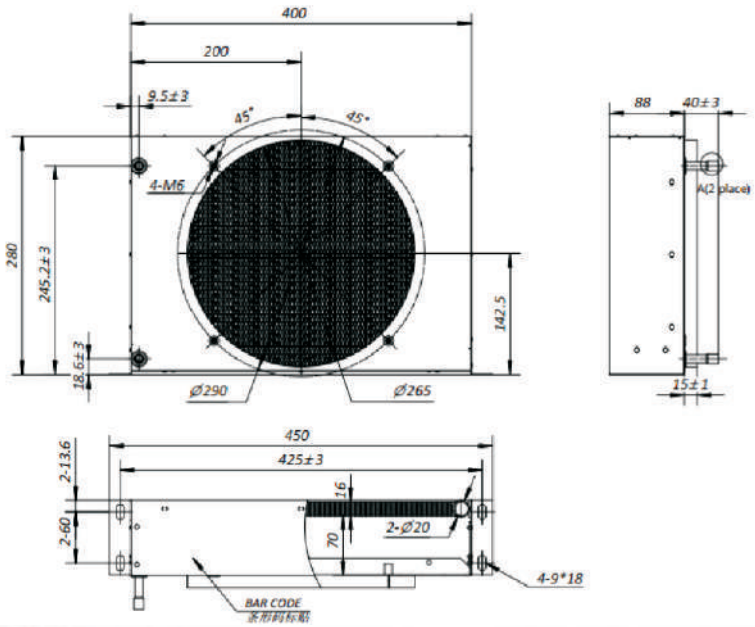
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU08 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	400	(L)
Length with bracket	mm	450	(L1)
Total height	mm	280	(H)
Total Width	mm	88	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 250	
Total internal volume	liters	0.1822	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU08	718	1260	2015	1295	2078	1239	2011	1270	2045



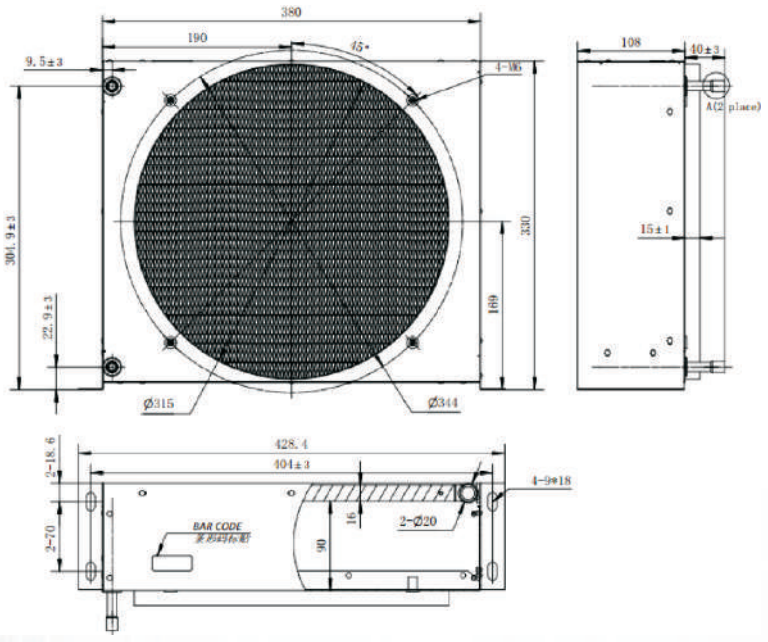
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU09 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	380	(L)
Length with bracket	mm	430	(L1)
Total height	mm	330	(H)
Total Width	mm	108	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 300	
Total internal volume	liters	0.2101	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU09	1520	2092	3419	2203	3478	2043	3378	2164	3431



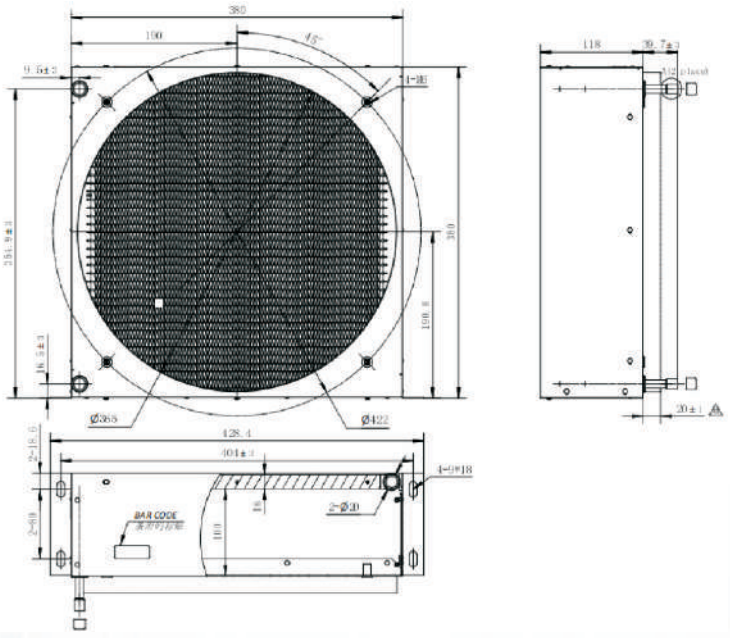
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU10 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	380	(L)
Length with bracket	mm	430	(L1)
Total height	mm	380	(H)
Total Width	mm	118	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 350	
Total internal volume	liters	0.2483	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU10	1810	2523	4055	2601	4110	2464	3997	2525	4057



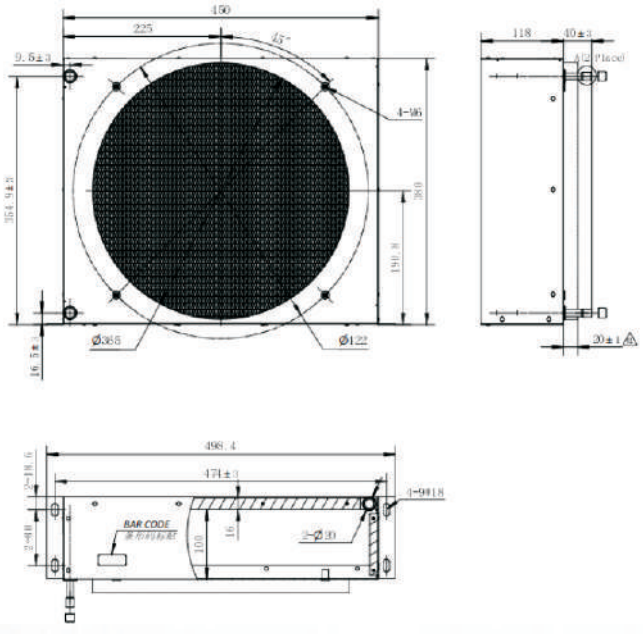
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU11 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	450	(L)
Length with bracket	mm	500	(L1)
Total height	mm	380	(H)
Total Width	mm	118	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 350	
Total internal volume	liters	0.2675	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU11	2040	3010	4769	3091	4827	2947	4704	3014	4776



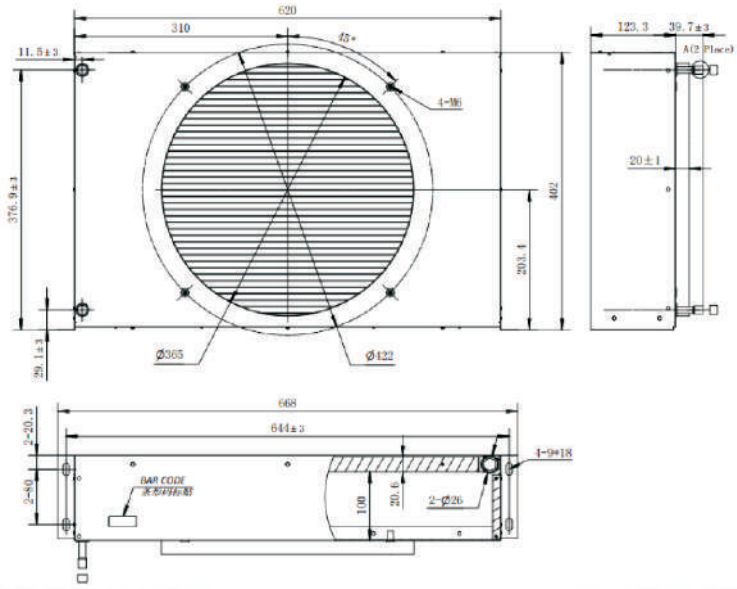
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU21 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	620	(L)
Length with bracket	mm	668	(L1)
Total height	mm	402	(H)
Total Width	mm	123	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	20.6	
FPI		12.7	
Fan number		1	
Fan size	mm	Ø 350	
Total internal volume	liters	0.5004	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU21	2480	4615	7197	4731	7267	4532	7120	4629	7227



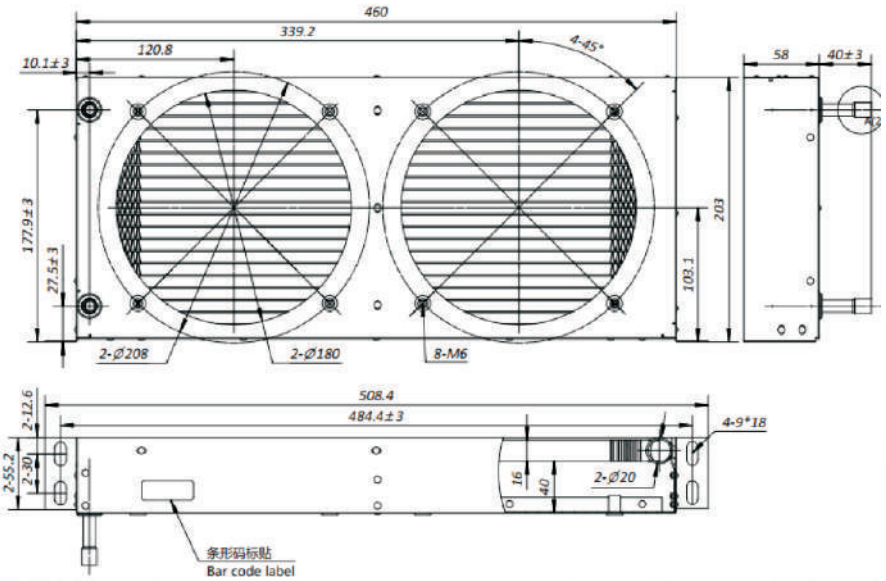
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU12 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	460	(L)
Length with bracket	mm	508	(L1)
Total height	mm	203	(H)
Total Width	mm	58	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 172	
Total internal volume	liters	0.1385	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU12	398	811	1275	835	1305	801	1265	818	1284



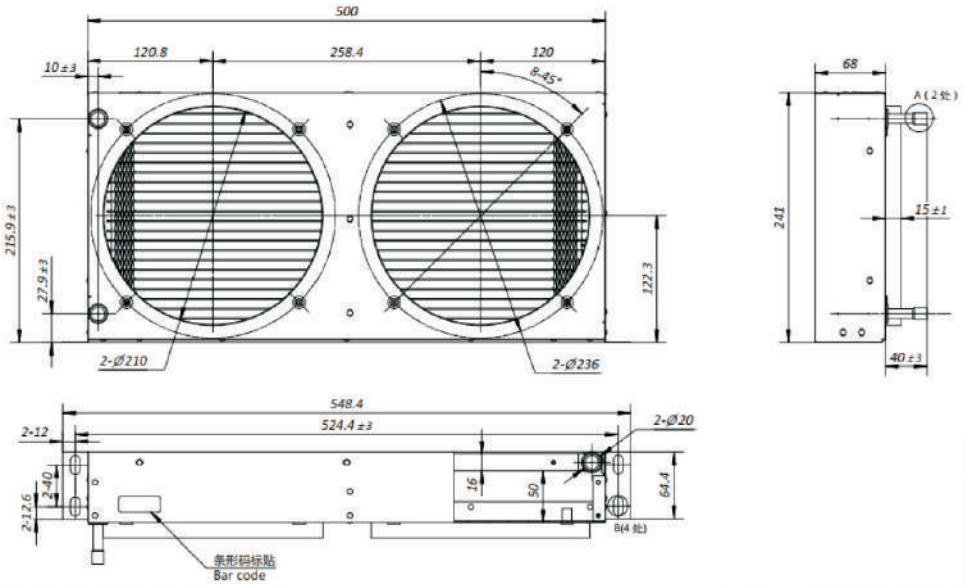
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU13 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	500	(L)
Length with bracket	mm	548	(L1)
Total height	mm	241	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1730	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU13	622	1221	1917	1248	1959	1198	1895	1224	1929



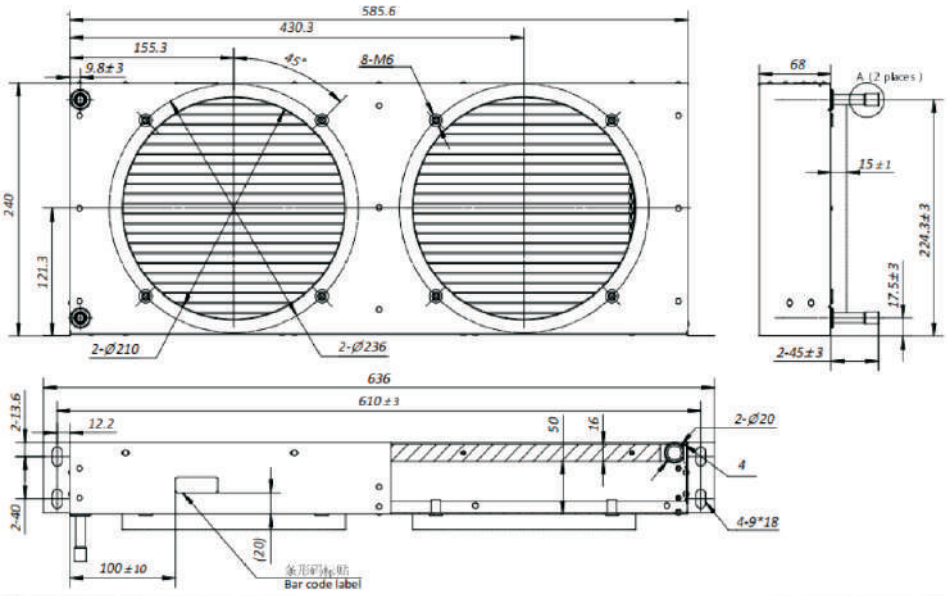
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

SH075 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	585	(L)
Length with bracket	mm	636	(L1)
Total height	mm	240	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1875	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
SH075	680	1384	2165	1414	2218	1360	2160	1391	2190



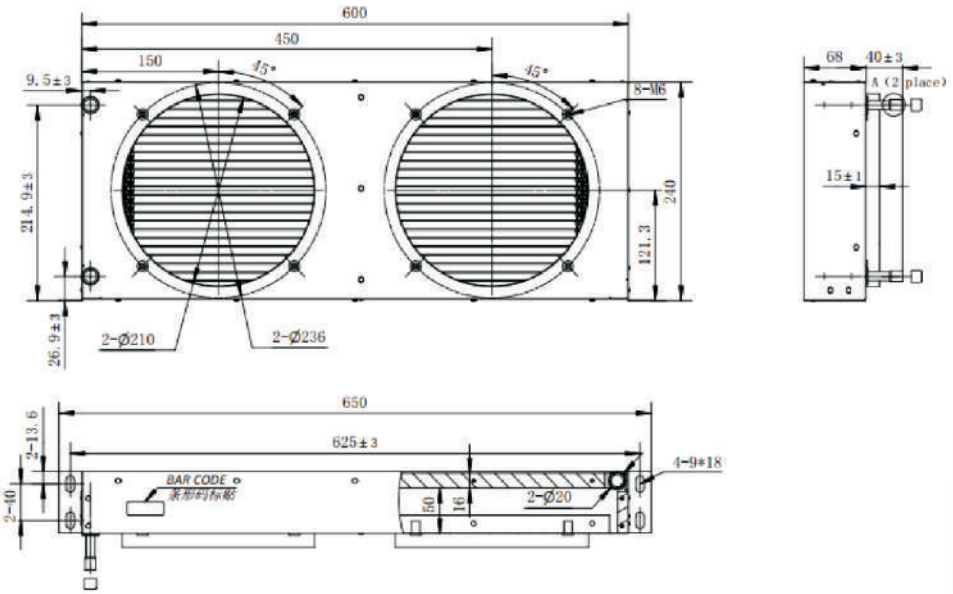
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU14 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	600	(L)
Length with bracket	mm	650	(L1)
Total height	mm	240	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1901	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU14	680	1401	2184	1428	2237	1374	2178	1406	2211



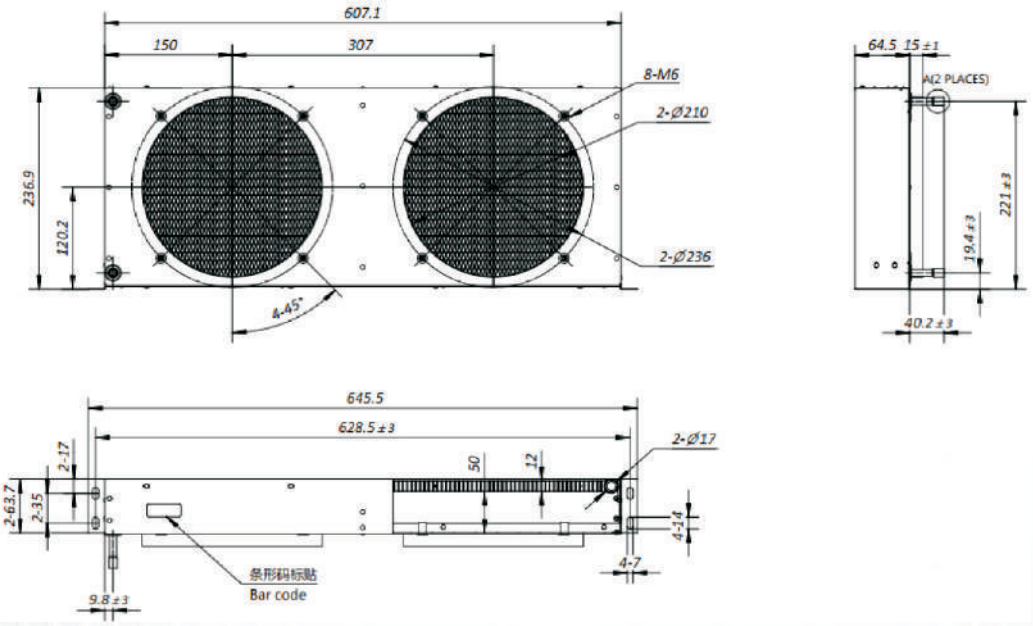
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

SH034 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	607	(L)
Length with bracket	mm	646	(L1)
Total height	mm	237	(H)
Total Width	mm	65	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	12	
FPI		10	
Fan number		2	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1582	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
SH034	740	1010	1575	1023	1588	990	1552	1012	1576



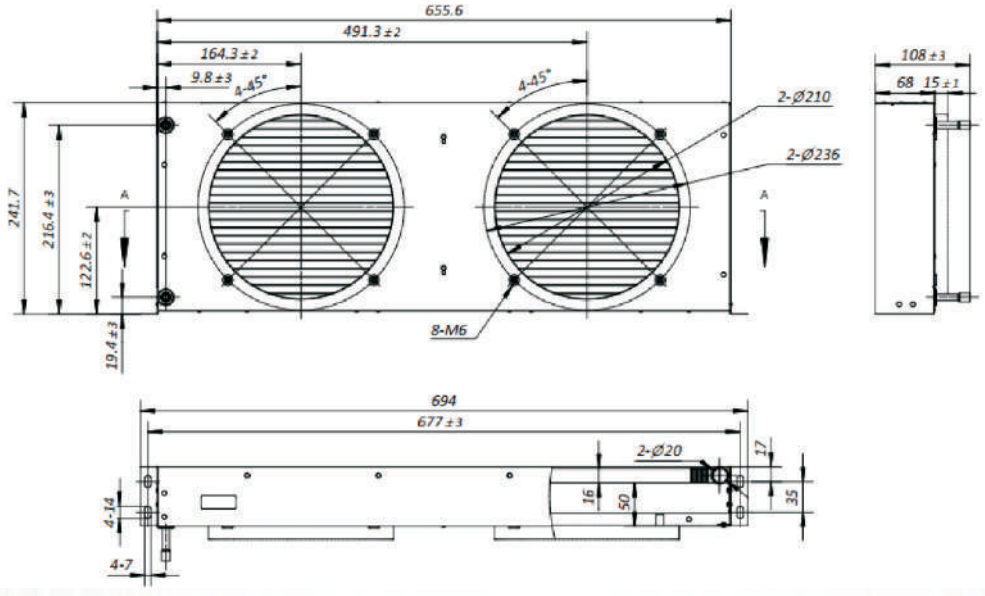
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

SH035 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	656	(L)
Length with bracket	mm	694	(L1)
Total height	mm	242	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 8	(Ø IN)
Outlet connection (OD)	mm	Ø 8	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 200	
Total internal volume	liters	0.1994	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
SH035	710	1425	2254	1452	2274	1395	2220	1428	2256



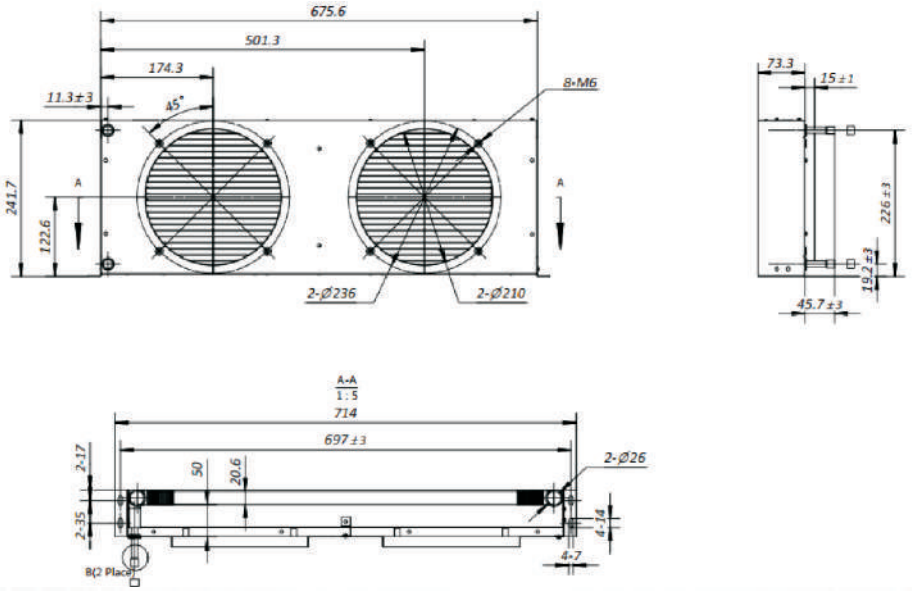
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

SH036 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	676	(L)
Length with bracket	mm	714	(L1)
Total height	mm	242	(H)
Total Width	mm	74	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	20.6	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 200	
Total internal volume	liters	0.3057	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
SH036	680	1605	2503	1649	2559	1583	2482	1616	2526



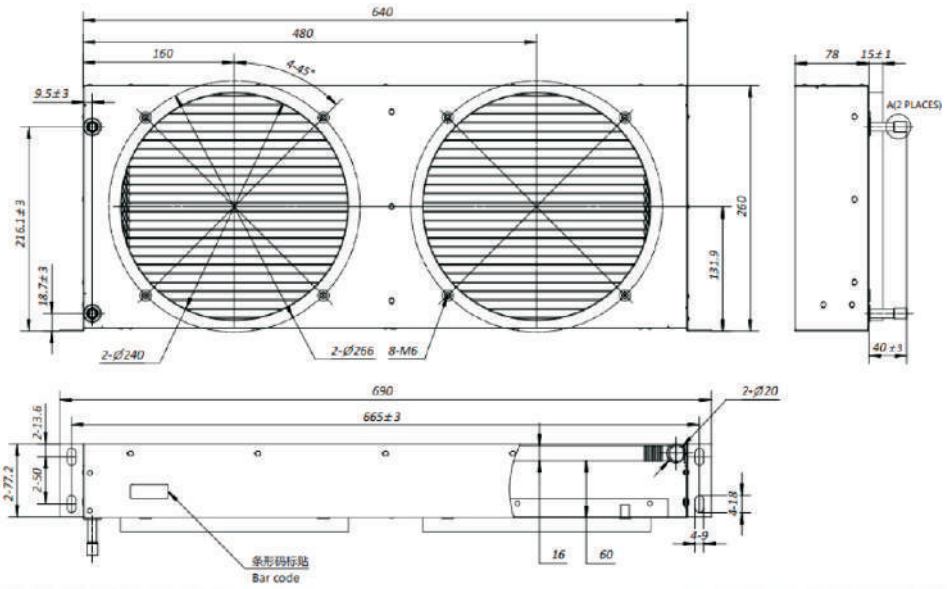
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU15 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	640	(L)
Length with bracket	mm	690	(L1)
Total height	mm	260	(H)
Total Width	mm	78	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 230	
Total internal volume	liters	0.2379	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU15	1067	2022	3145	2077	3164	1956	3113	2027	3158



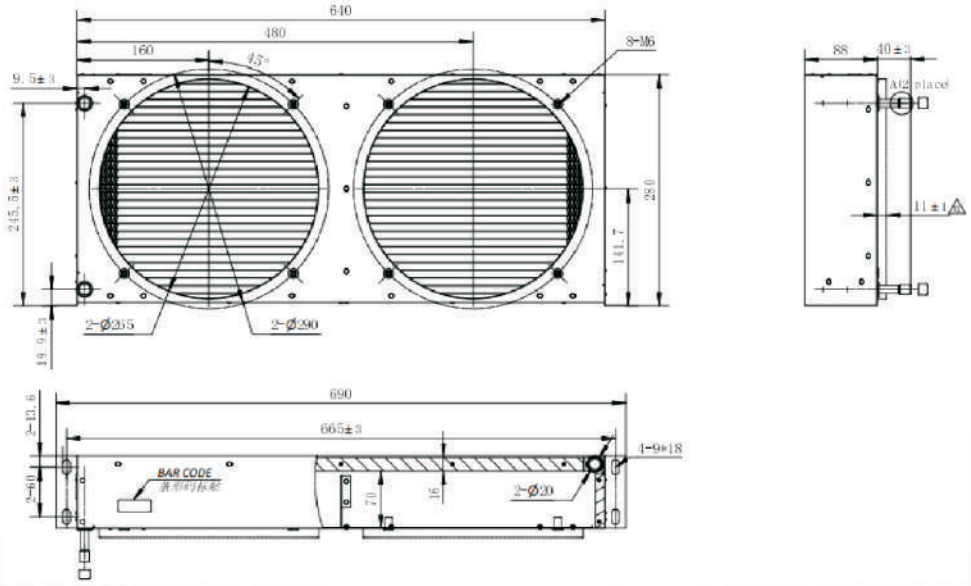
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU16 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	640	(L)
Length with bracket	mm	690	(L1)
Total height	mm	280	(H)
Total Width	mm	88	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 250	
Total internal volume	liters	0.2297	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU16	1300	2370	3681	2425	3702	2323	3641	2373	3694



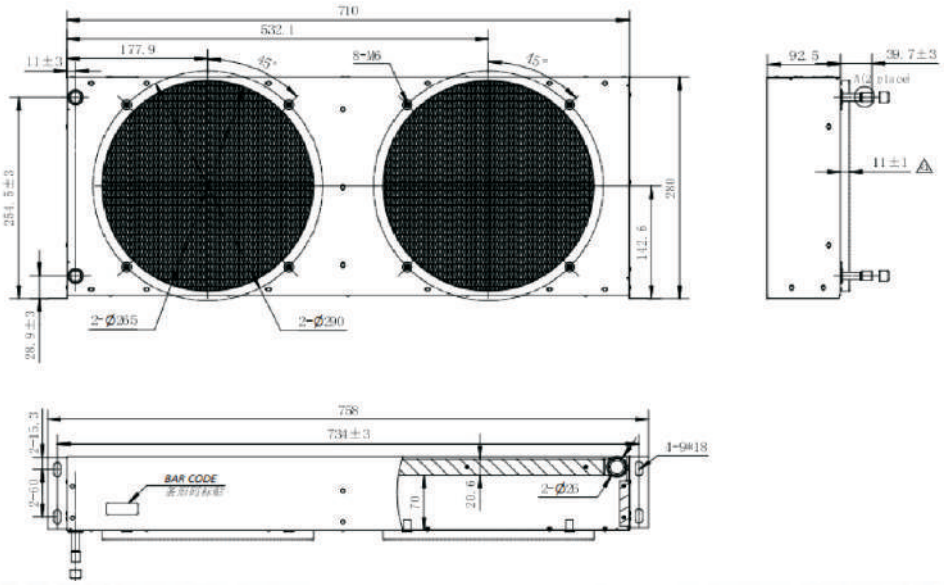
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU17 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	710	(L)
Length with bracket	mm	758	(L1)
Total height	mm	280	(H)
Total Width	mm	93	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	20.6	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 250	
Total internal volume	liters	0.3659	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU17	1270	2732	4223	2800	4269	2638	4181	2737	4243



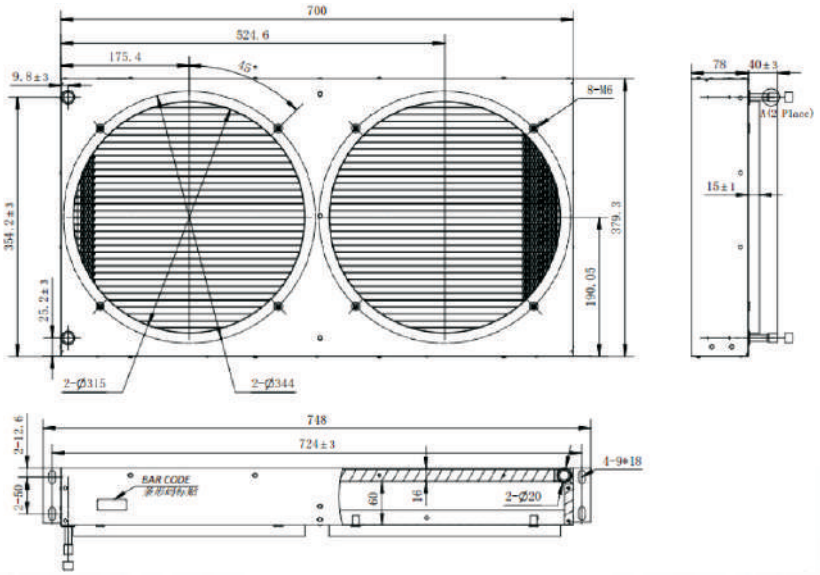
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU22 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	700	(L)
Length with bracket	mm	748	(L1)
Total height	mm	379	(H)
Total Width	mm	78	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		2	
Fan size	mm	Ø 300	
Total internal volume	liters	0.3364	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU22	3280	4752	7545	4757	7742	4576	7522	4688	7641



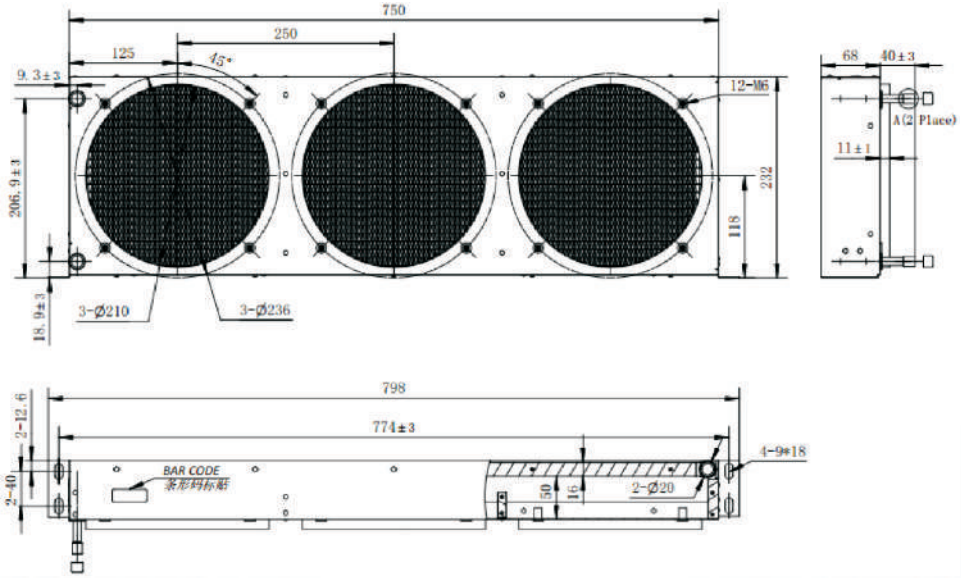
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU18 *Condenser*

Dimensional Characteristics	Metric units		
Total length	mm	750	(L)
Length with bracket	mm	798	(L1)
Total height	mm	232	(H)
Total Width	mm	68	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		3	
Fan size	mm	Ø 200	
Total internal volume	liters	0.2065	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU18	928	1881	2902	1923	2919	1844	2873	1883	2914



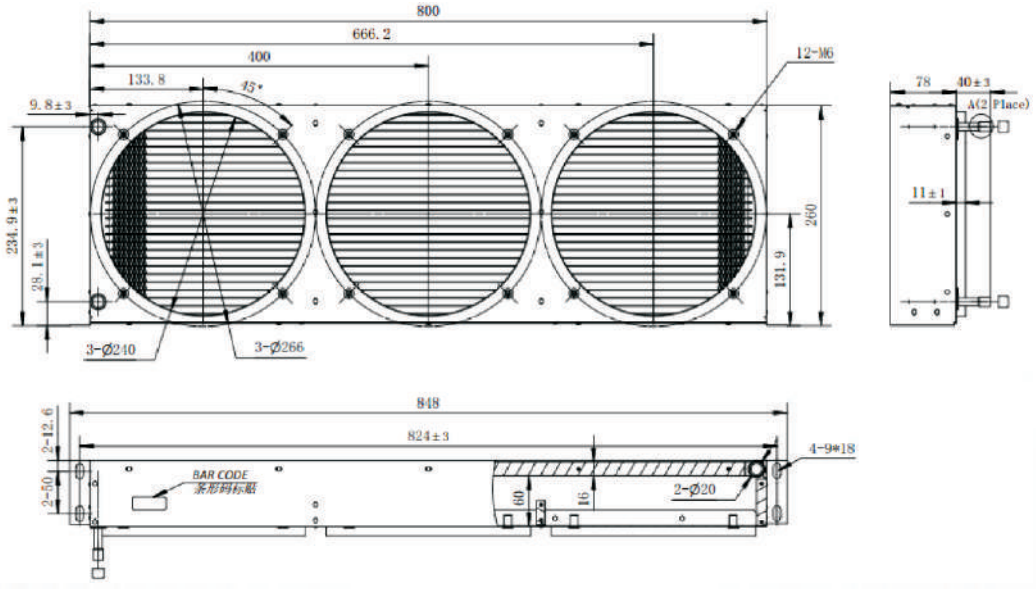
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU19 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	800	(L)
Length with bracket	mm	848	(L1)
Total height	mm	260	(H)
Total Width	mm	78	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	16	
FPI		12.7	
Fan number		3	
Fan size	mm	Ø 230	
Total internal volume	liters	0.2427	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU19	1448	2608	4105	2664	4181	2506	4065	2599	4130



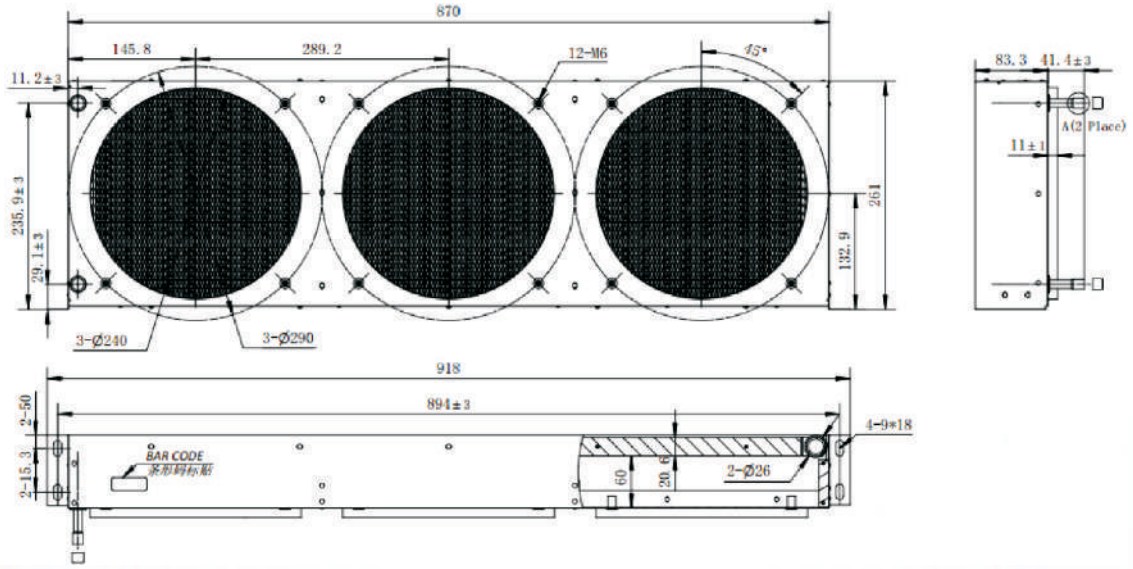
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

EU20 Condenser

Dimensional Characteristics	Metric units		
Total length	mm	870	(L)
Length with bracket	mm	918	(L1)
Total height	mm	261	(H)
Total Width	mm	83	(W)
Inlet connection (OD)	mm	Ø 9.52	(Ø IN)
Outlet connection (OD)	mm	Ø 9.52	(Ø OUT)
Tube Width	mm	20.6	
FPI		12.7	
Fan number		3	
Fan size	mm	Ø 230	
Total internal volume	liters	0.3991	
Physical Characteristics			
Max. Operating Pressure*:	MPa	4.5	(PS)
Burst pressure:	MPa	13.5	
Material			
Tube:	-	AA3102	
Fins:	-	AA3003	
Manifold:	-	AA3003	
Inlet/Outlet tubes:	-	Copper	
Housing:	-	DC51D+Z	

Performance Data (Metric Units)

Model	Air Flow (m^3/h)	Capacity(W)							
		R290		R404A		R448A		R449A	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU20	1390	2925	4584	2980	4685	2863	4544	2930	4606



SANHUA is the world's largest producer of Micro-Channel Heat Exchangers

for Commercial Refrigeration and HVAC application

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OVER 1,300,000 MCHE
CONDENSERS AND
EVAPORATORS HELPING
TO IMPROVE SYSTEM
EFFICIENCY BY UP TO 30%

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WHY
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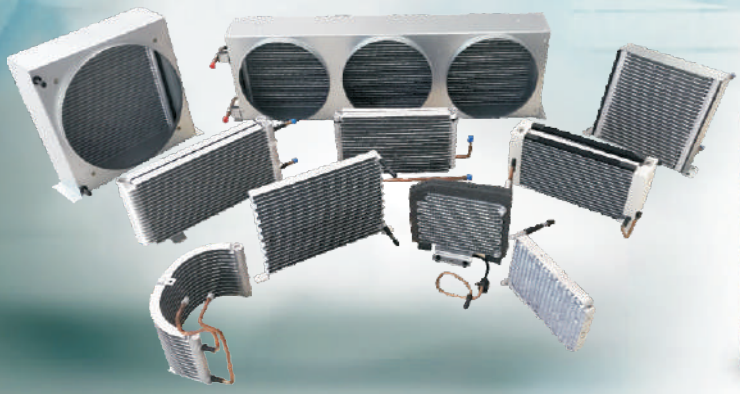

- Improves efficiency by **30%**
- Refrigerant Charge Reduction by **30%** Environmental Friendly
- MCHE is lighter in weight, smaller in volume Compact Design

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