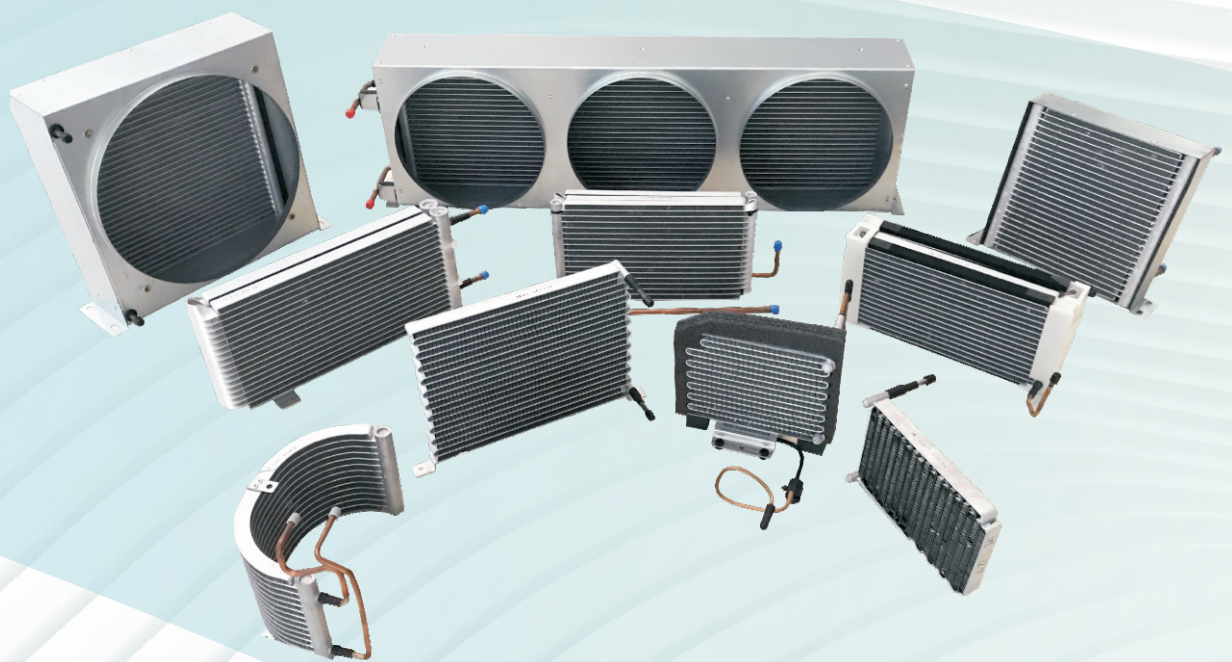


SANHUA *MICRO- CHANNEL HEAT EXCHANGERS*



SINCE 1984

SUMMARY

SANHUA MCHE Standard Range
BENEFITS – Comparison with Fin & Tubes technology 05

SANHUA MCHE Standard Range
Common Nominal Working Conditions 06

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	380 x 380	16	19
Series EU11 Condenser	450 x 380	16	20
Series EU21 Condenser	620 x 402	20.6	21

DOUBLE FAN

	DIMENSIONS		
	Length x Height [mm]	Flat Tube Width [mm]	
Series EU12 Condenser	460 x 203	16	22
Series EU13 Condenser	500 x 241	16	23
Series SH075 Condenser	585 x 240	16	24
Series EU14 Condenser	600 x 240	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	640 x 260	20	29
Series EU16 Condenser	640 x 280	16	30
Series EU17 Condenser	710 x 280	20.6	31
Series EU22 Condenser	700 x 379	16	32

TRIPLE FAN

Series EU18 Condenser	750 x 232	16	33
Series EU19 Condenser	800 x 260	16	34
Series EU20 Condenser	870 x 261	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.

SANHUA

*“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.

CHILLING
ideas worldwide



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."

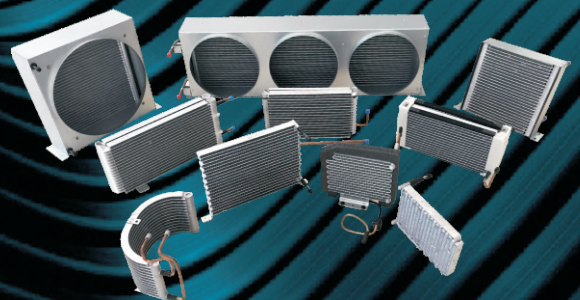


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MICRO-CHANNEL HEAT EXCHANGERS

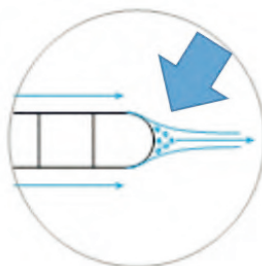
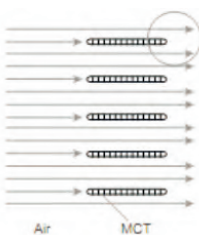
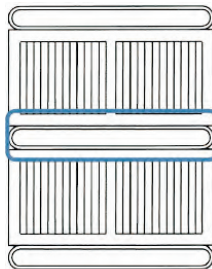
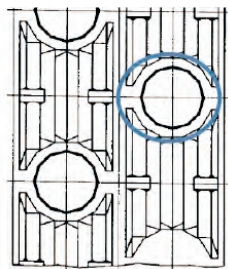
"SANHUA is the world's largest producer of micro-channel heat exchangers"



SANHUA

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 Coefficient:**
tubes with small section provide higher refrigerant speed and higher turbulence besides a bigger internal surface
- 3. Higher External Heat 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 (flammable 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)**



SANHUA

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: ($\Delta T=10$ K)			
Condensing Temperature	°C	42	TC
Inlet refrigerant temperature	°C	62	
Input data: ($\Delta T=15$ K)			
Condensing Temperature	°C	47	TC
Inlet refrigerant temperature	°C	67	

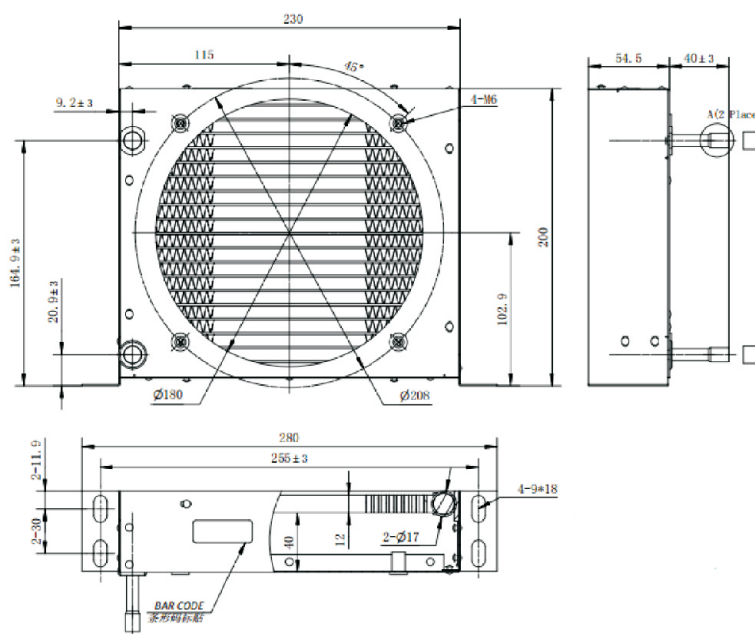
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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



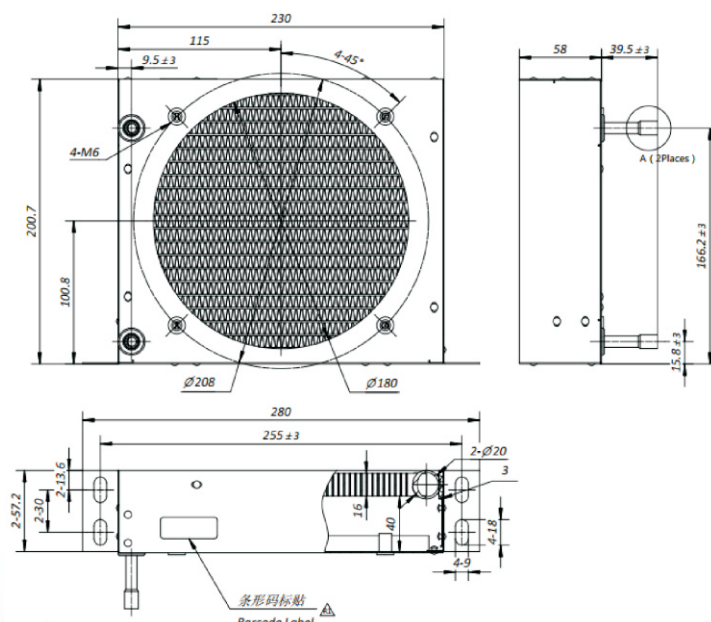
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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



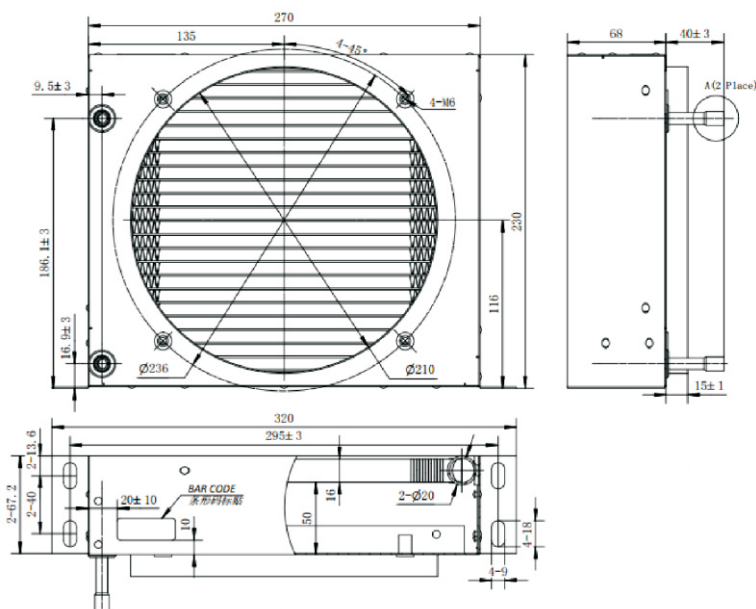
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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



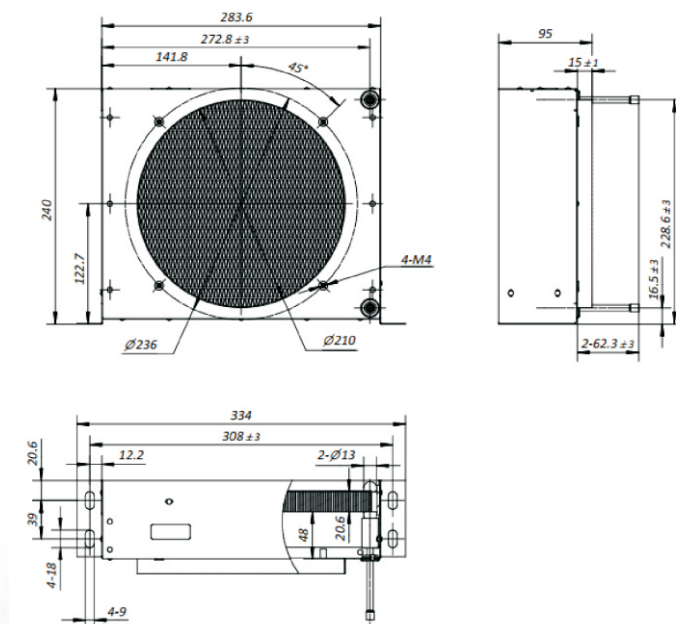
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



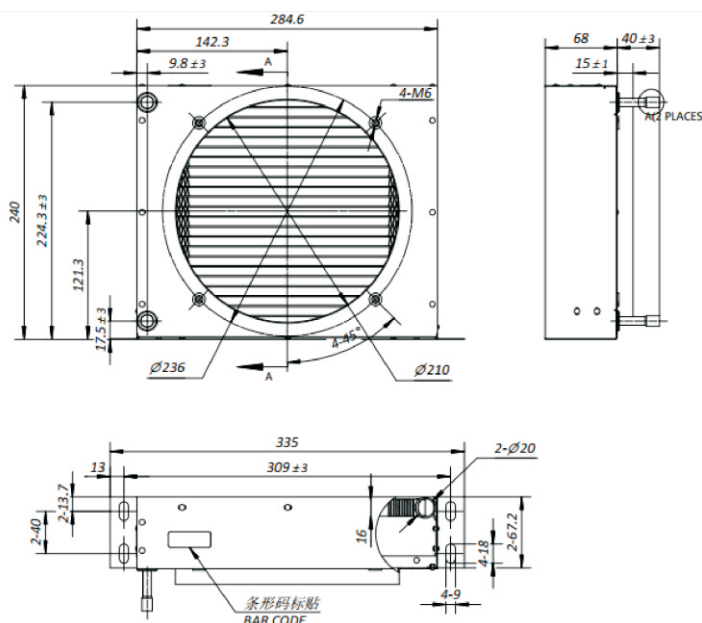
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



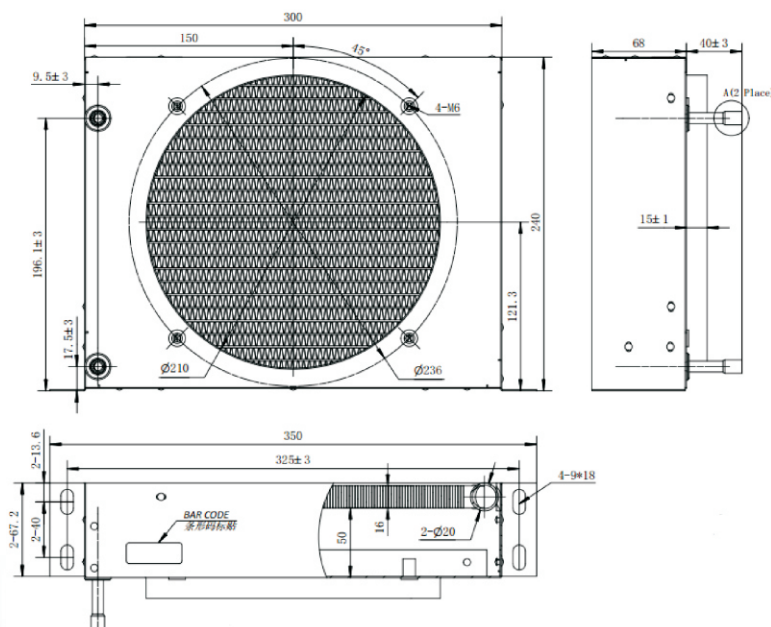
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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	
		ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K	ΔT=10K	ΔT=15K
EU04	326	585	970	621	983	583	957	604	972



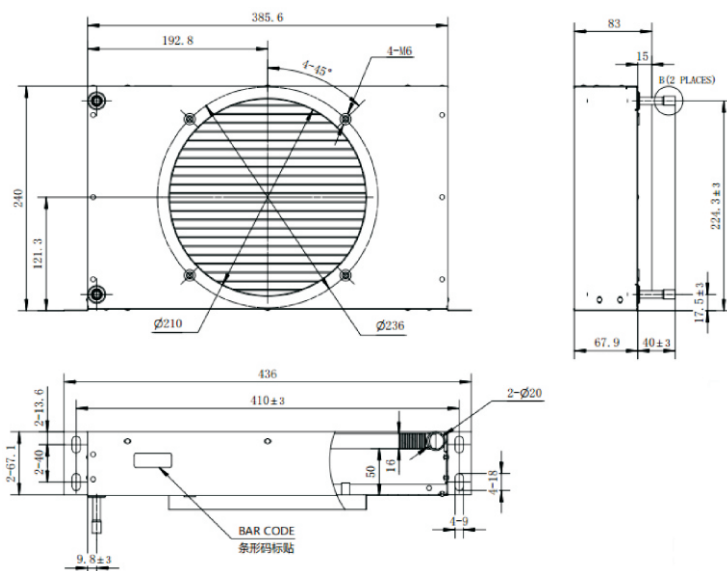
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



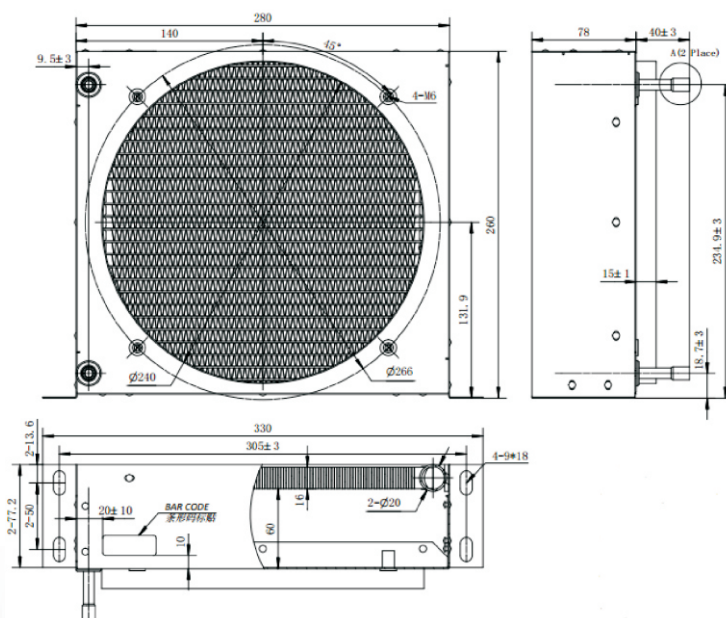
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



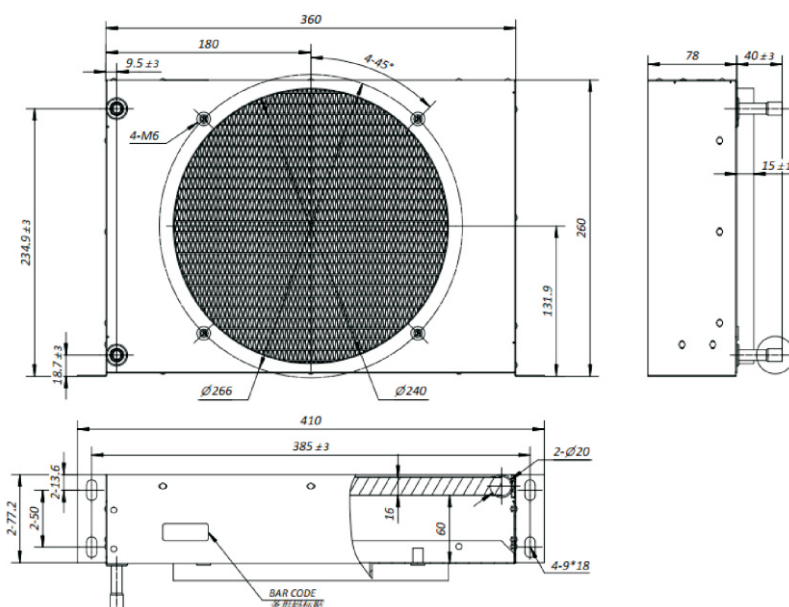
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



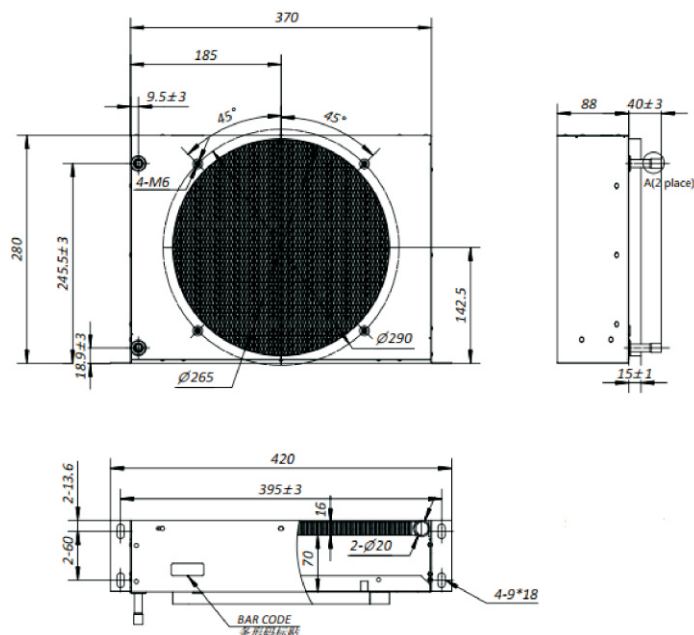
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



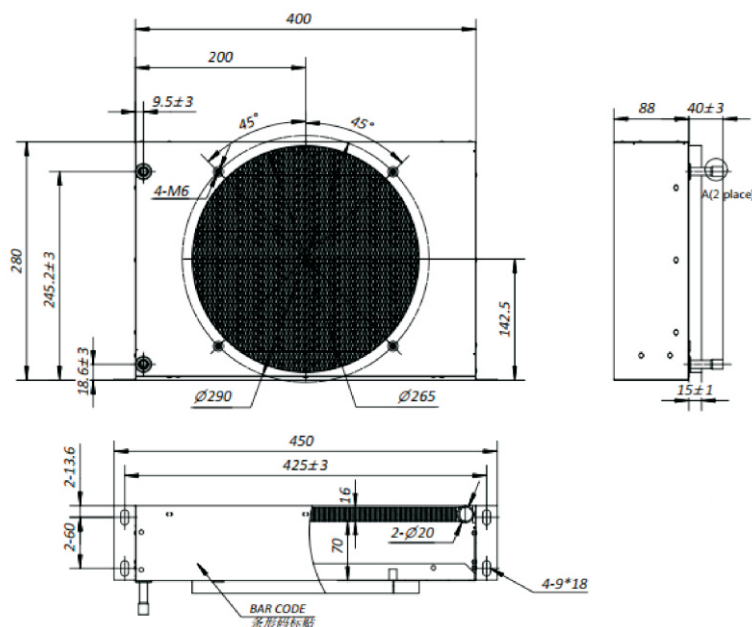
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



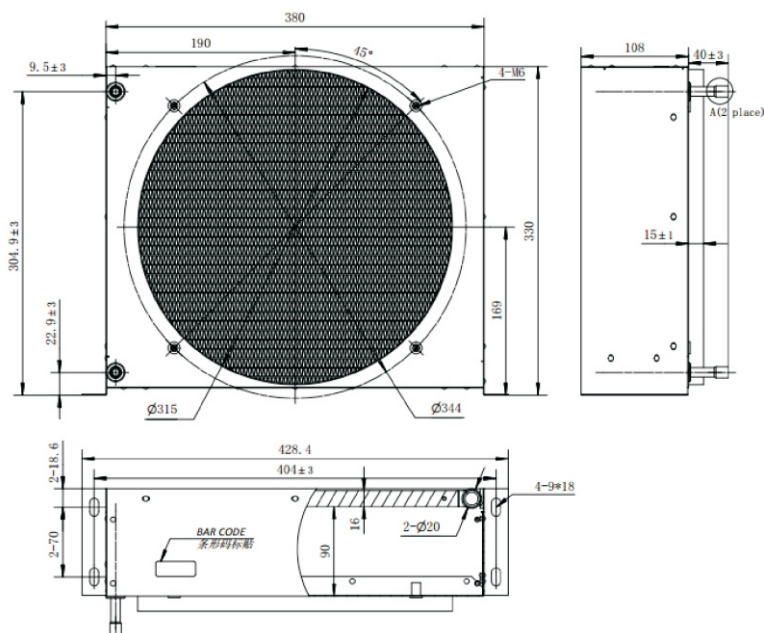
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



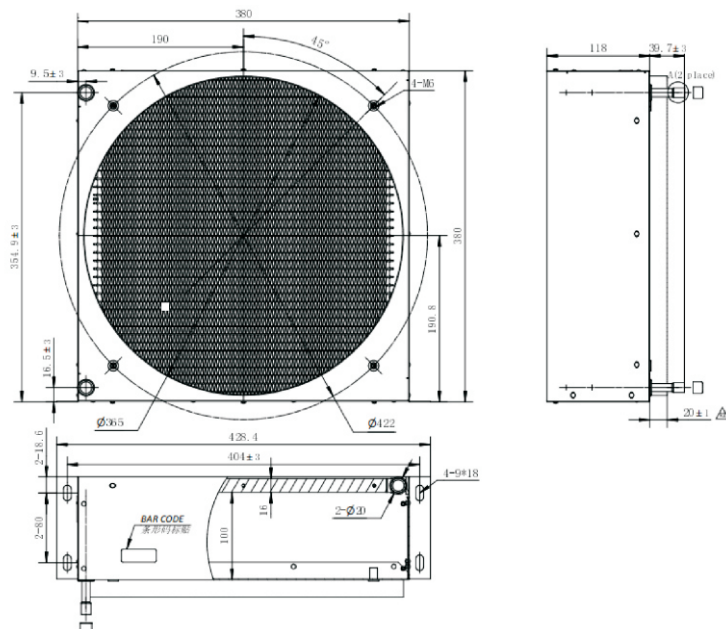
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



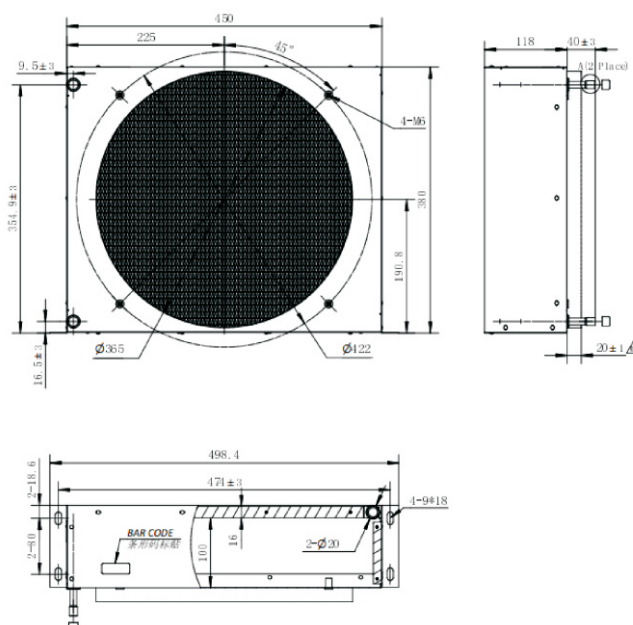
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EU11 *Condenser*

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 (m³/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



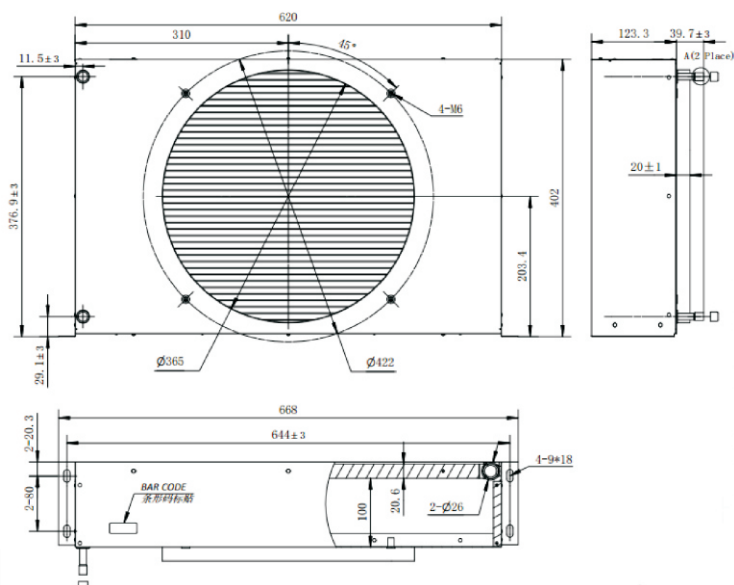
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EU21 *Condenser*

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 (m³/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



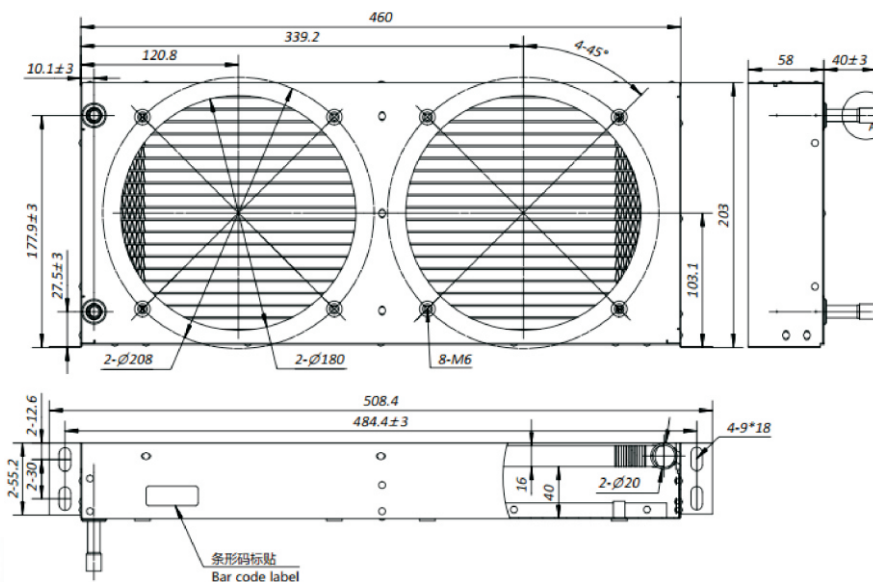
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EU12 Condenser

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 (m³/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



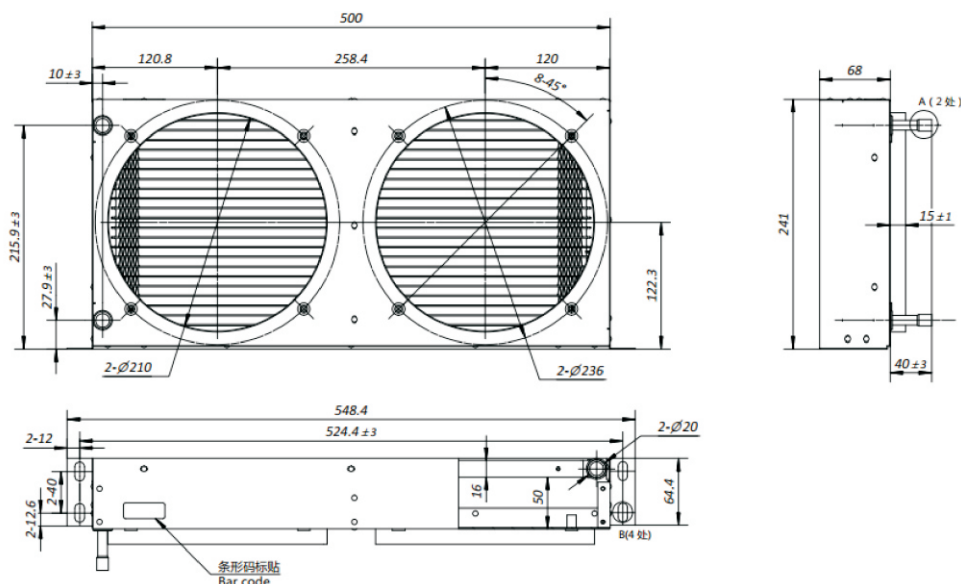
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EU13 Condenser

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 (m³/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



SH075 Condenser

Performance Data (Metric Units)

Technical drawing of the 200mm x 200mm x 10mm fan unit, showing front, side, and detail views with dimensions and callouts.

Front View Dimensions:

- Overall width: 585.6
- Overall height: 240
- Distance between fan centers: 430.3
- Distance from left edge to first fan center: 155.3
- Distance from top edge to first fan center: 121.3
- Distance from left edge to mounting hole center: 9.8 ± 3
- Mounting hole diameter: $\phi 5$
- Mounting hole pitch: 8-M6
- Fan diameter: $2-\phi 210$
- Fan mounting hole diameter: $2-\phi 236$

Side View Dimensions:

- Overall depth: 68
- Distance from front face to mounting hole center: 15 ± 1
- Mounting hole diameter: $\phi 4$ (2 places)
- Distance from bottom edge to mounting hole center: 17.5 ± 3
- Bottom edge distance to mounting hole center: 2.45 ± 3
- Overall height: 224.3 ± 3

Detail View Dimensions:

- Overall width: 636
- Overall height: 610 ± 3
- Distance from left edge to mounting hole center: 12.2
- Mounting hole diameter: $2-\phi 20$
- Mounting hole pitch: 4
- Mounting hole pitch: $4-9 \times 18$
- Distance from bottom edge to mounting hole center: 50
- Distance from bottom edge to mounting hole center: 16
- Distance from bottom edge to mounting hole center: 100 $\pm$ 10
- Barcode label: 条形码标识 (Barcode label)

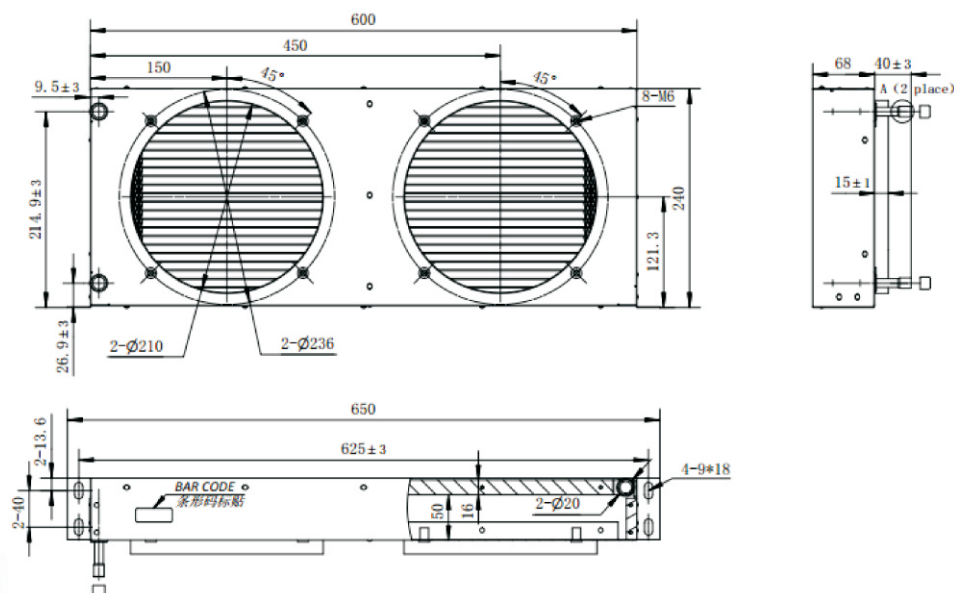
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EU14 Condenser

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 (m³/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



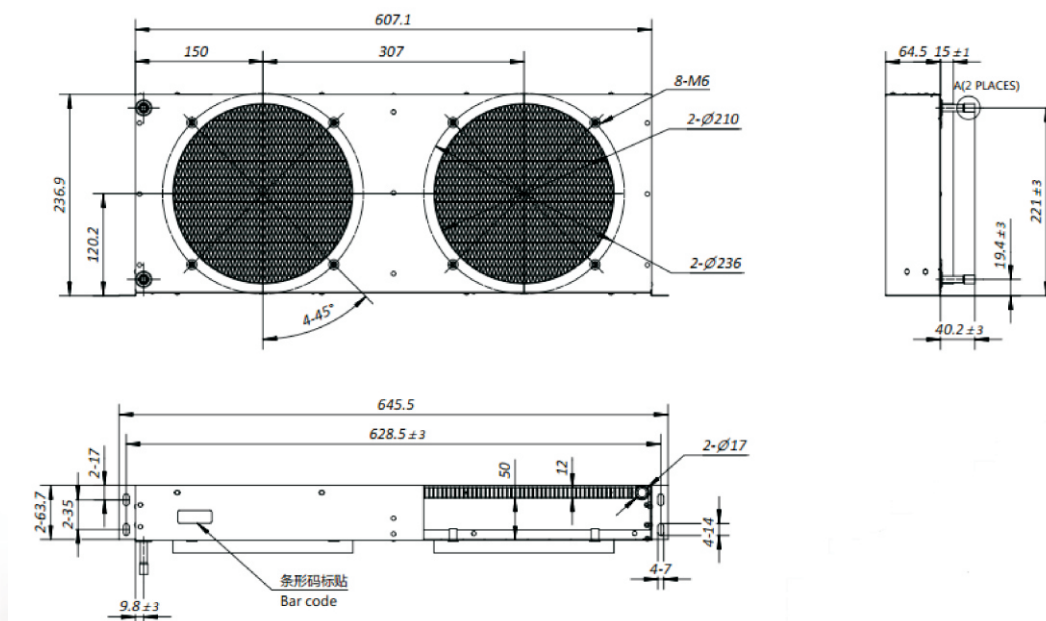
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SH034 Condenser

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 (m³/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



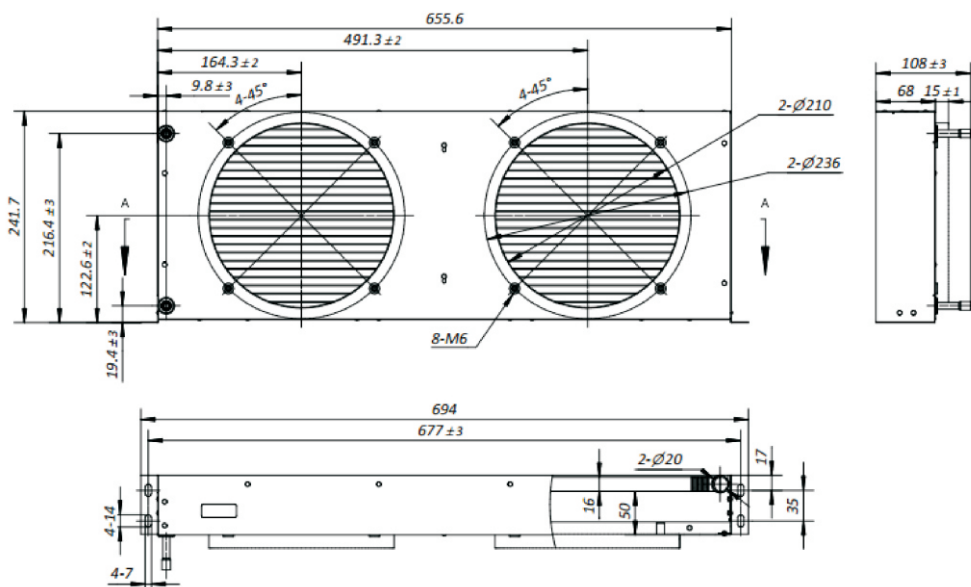
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SH035 *Condenser*

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 (m³/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



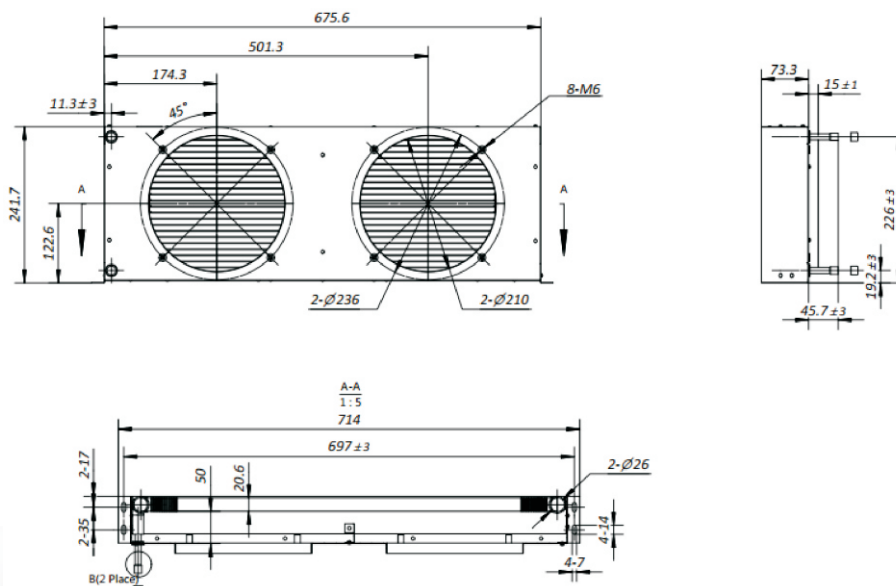
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SH036 *Condenser*

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 (m³/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



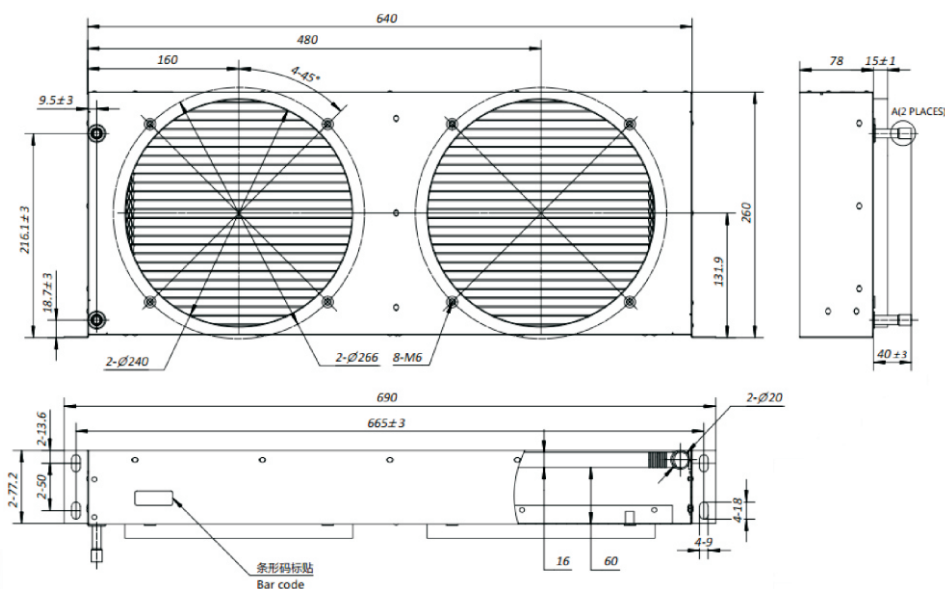
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EU15 Condenser

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 (m³/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



EU16 Condenser

Performance Data (Metric Units)

Technical drawing of a two-chambered manhole cover. The top view shows two circular chambers, each 480mm in diameter, separated by a 160mm gap. The overall width is 640mm. The cover has a 15-degree chamfer and is secured with 8-M6 bolts. The bottom view shows the cover's profile with a total height of 69mm. It features a 'BAR CODE' label, a 70mm high section, and 4-9#18 bolts. A side view shows the cover's thickness of 40mm and a 11mm gap.

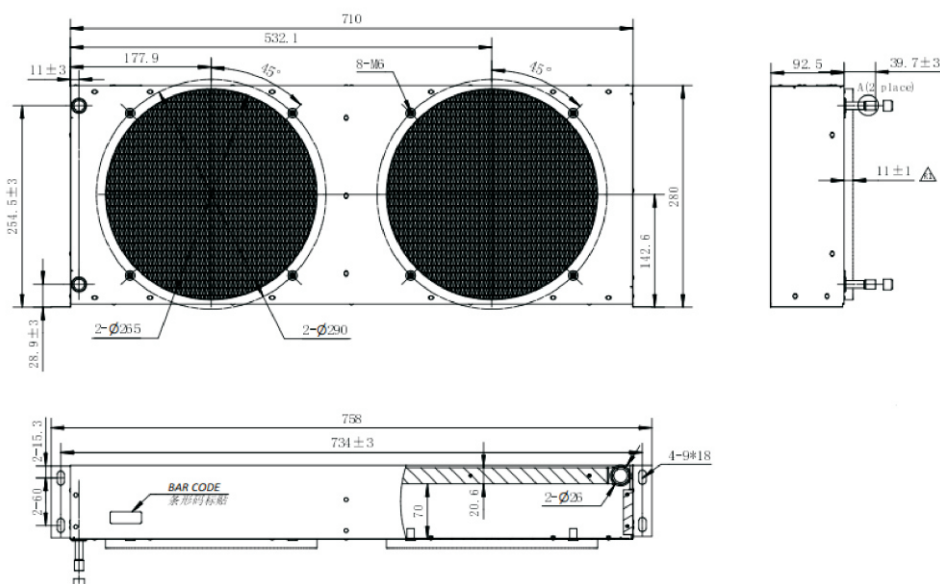
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EU17 Condenser

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 (m³/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



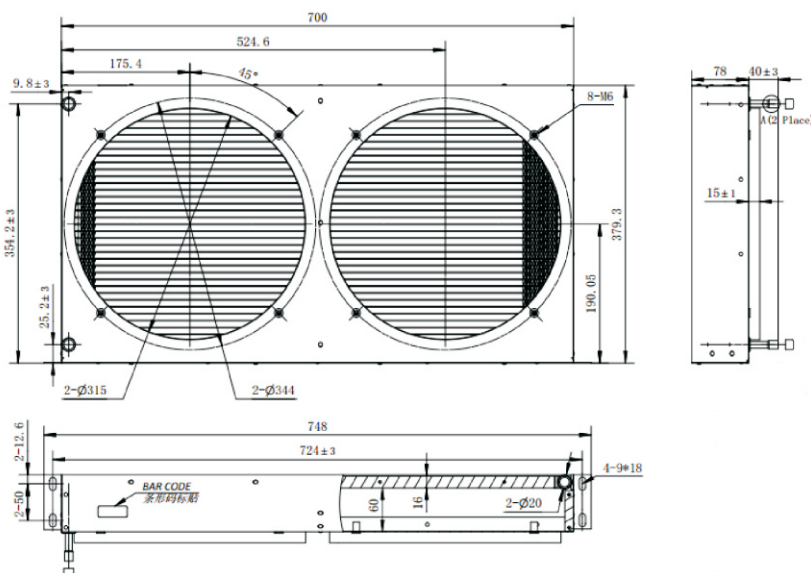
SANHUA *Micro-Channel Heat Exchangers- Standard Range*

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 (m³/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



EU18 Condenser

Performance Data (Metric Units)

The technical drawing illustrates the dimensions of the A(2)P1ace air conditioning unit from three perspectives:

- Front View (Top):** Shows three circular fans with diameters of $\phi 210$ and $\phi 236$. The overall width is 750 mm, and the height is 232 mm. Spacing between fans is 125 mm, and the distance from the left edge to the first fan center is 9.3 ± 3 mm. Mounting holes are specified as 12-M6.
- Side View (Right):** Shows the unit's depth of 68 mm and mounting bracket dimensions of 40 ± 3 mm and 11 ± 1 mm. It indicates the location for the A(2)P1ace label.
- Bottom View (Bottom):** Shows the base plate with a total length of 798 mm and a central section of 774 ± 3 mm. It includes a BAR CODE area, a drainage hole of $\phi 20$, and four mounting points labeled 4-9#18.

EU19 Condenser

Performance Data (Metric Units)

EU20 Condenser

Performance Data (Metric Units)

Technical drawing of a rectangular box with three circular openings. The drawing includes a top view and a side view.

Top View Dimensions:

- Total width: 870
- Distance between circle centers: 289.2
- Circle diameters: 3- $\varnothing 240$ and 3- $\varnothing 290$
- Box thickness: 11.2 $\pm$ 3
- Distance from left edge to first circle center: 145.8
- Distance from right edge to last circle center: 145.8
- Distance from top edge to circle center: 235.9 $\pm$ 3
- Distance from bottom edge to circle center: 235.9 $\pm$ 3
- Distance from top edge to box bottom: 261
- Distance from bottom edge to box top: 132.9
- Box material thickness: 29.1 $\pm$ 3
- Box material thickness: 12-M6
- Box material thickness: 45°

Side View Dimensions:

- Total depth: 918
- Distance from left edge to first circle center: 894 $\pm$ 3
- Circle diameters: 2- $\varnothing 26$
- Box thickness: 2-50
- Distance from left edge to first circle center: 2-15.3
- Distance from right edge to last circle center: 4-9#18
- Distance from top edge to circle center: 60
- Distance from bottom edge to circle center: 20.6
- Distance from top edge to box bottom: 83.3
- Distance from bottom edge to box top: 41.4 $\pm$ 3
- Box material thickness: 11 $\pm$ 1
- Box material thickness: A(2 Place)

Barcode Label:

BAR CODE
条形码标识

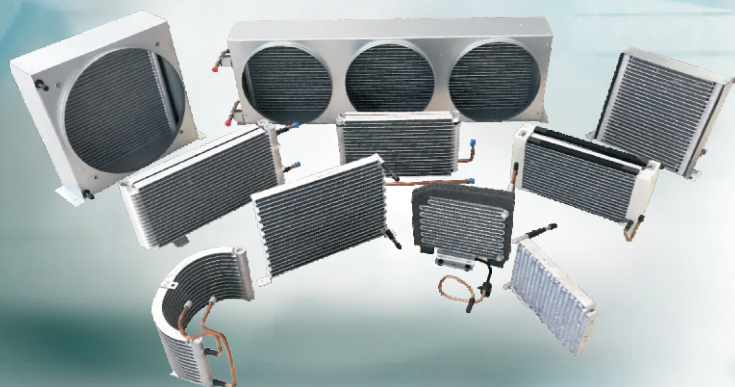
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