ansal® REFRIGERACION S.A. Desde 1946

SANHUA

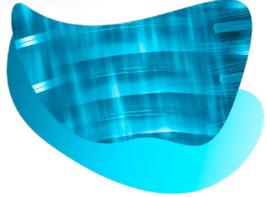
Stainless Steel Brazed Plate Heat Exchanger

A magnificent turn into new chapter

SANHUA's patented asymmetric plate design has in average 25% lower pressure drop on secondary side compared to other solutions available on the market.





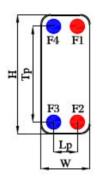


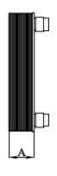
S40A



INTRODUCTION

SANHUA S40A is widely used as condenser or evaporator in air-cooled chillers (or heat pumps) with capacity up to 50kW. Its high reliable structural design makes it suitable for high-pressure refrigerants such as R410A and R32. The plate adopts optimized asymmetric fishbone design and innovative distributor design, which has high heat transfer efficiency and reduces water side pressure drop. The lower hold-up volume will help to reduce the refrigerant charge.









Size Code	mm	IN					
Н	332	13.07					
W	118	4.65					
Tn	279 (F1F2)	10.98					
Тр	286 (F3F4)	11.26					
l n	68 (F1F4)	2.68					
Lp	75 (F2F3)	2.95					
Α	10.5+(1.5 x NoP)	0.433+(0.061 x NoP)					

NoP = number of plates

TECHNICAL DATA	
Max. no. of plates	120
Max flow (m³/h)	8.8
Max. working pressure (MPa)	4.9
Working temperature (°C)	-196/+200
Volume per channel (L)	0.049 (F1F2)/0.042 (F3F4)
Weight w/o connection (kg)	1.26+ (0.106 x NoP)
Flow Direction	Parallel flow
Plate	SS 316L/SS 304
Connection	SS 304
Solder	Copper

STANDARD CONNECTIONS	
F3-F4 Refrigerant side	solder: 1/4", 3/8", 1/2" , 5/8" , 3/4", 7/8"
F1-F2 Water side	thread: 1/4", 3/8", 1/2" , 5/8" , 3/4"



Note: The BPHE is used as an evaporator, F3/F4 is the refrigerant inlet/outlet.

THIRD-PARTY APPROVALS

Europe: Pressure Equipment Directive (PED) III. UK: UK Conformity Assessed Marking (UKCA). US: Underwriter Laboratories Inc. (UL). For additional requirements, please contact Sanhua.

ACCESSORIES-STUD BOLTS

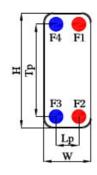
Stud bolts and feet on front /end cover plate for mounting support are available upon request.



S60B

INTRODUCTION

SANHUA S60B is widely used in chillers, heat pumps and IT cooling as evaporator and condenser. It is also be used as economizer or oil cooler for screw chillers. The capacity range is 10~90kW. The asymmetric heat plate and optimized distributor can reduce the water side pressure drop and provide efficient heat transfer performance at the same design temperature.









Size Code	mm	IN
Н	526	20.71
W	119	4.69
Тр	470	18.5
Lp	63	2.48
Α	12+(1.93 x NoP)	0.315+(0.076 x NoP)

NoP = number of plates

TECHNICAL DATA	
Max. no. of plates	120
Max flow (m³/h)	17
Max. working pressure (MPa)	3.0/4.9 (optional)
Working temperature (°C)	-196/+200
Volume per channel (L)	0.0967 (F1F2)/0.0863 (F3F4)
Weight w/o connection (kg)	2.2+ (0.168 x NoP)
Flow Direction	Parallel flow
Plate	SS 316L/SS 304
Connection	SS 304
Solder	Copper

STANDARD CONNECTIONS	
F3-F4 Refrigerant side	solder, up to 1 3/8"
F1-F2 Water side	thread, up to 1 1/4"



Note: The BPHE is used as an evaporator, F3/F4 is the refrigerant inlet/outlet.

THIRD-PARTY APPROVALS

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ACCESSORIES-STUD BOLTS

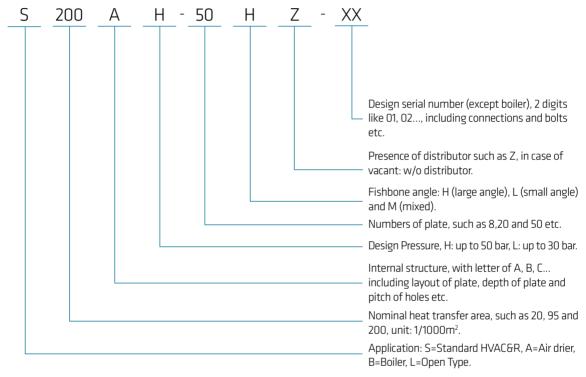
Stud bolts and feet on front /end cover plate for mounting support are available upon request.

Brazed plate heat exchanger

Sanhua is always thinking and working globally, and we have obtained EU PED certification from authorized 3rd party. Our BPHEs legally work with fluid group 1 and group 2, including water, ethylene glycol solution, common HCFC, HFC, HC and HFO refrigerants such as R410A, R32, R454B, R290, R134a, R404A, R507, R448A, R449A, R1234yf, R1234ze and R452A etc. The design pressure is up to 50 bar.

Designation of SANHUA BPHE







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Designation of SANHUA BPHE

Below table is showing the recommended applications with different models:



	S6B	S11A	S12B	S14B	S20	S20B	S20C	S27C	S30A	S40A	S60	S60B	S65A	S95B	S95C
650 mm														0 0	
600 mm							Hen!	MEM.	Men!				Men!	Meni	Meni
550 mm								·	·		0 0	0 0	0 0		
450 mm															
350 mm						00	00	6 0		0 0					
250 mm				60	0 0				0 0						
150 mm	00	00	00												
50 mm	00	00	00	00	00	00	00	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

54x119 76x154 77x192 77x213 75x317 76x318 76x318 116x314 97x327 118x332 120x527 120x527 120x535 196x621 196x621 [mm]

										-		-			
	S6B	S11A	S12B	S14B	S20	S20B	S20C	S27C	S30A	S40A	S60	S60B	S65A	S95B	S95C
Capacity (kW)*	1~5	1~8	1~10	2~15	2~25	2~25	2~25	2~30	5~30	5~40	10~90	10~90	10~90	30~200	30~200
Capactiy (Ton)*	0.3~1.4	0.3~2.3	0.3~2.8	0.6~4.3	0.6~7	0.6~7	0.6~7	0.6~8.5	1.4~8.5	1.4~11	2.8~26	2.8~26	2.8~26	8.5~56	8.5~56
Asymmetric	-	-	-	-	-	-	-	-	х	x	-	х	x	-	х
Reduced Depth	-	х	х	-	-	х	-	-	х	-	-	-	х	х	х
Distributor Option							-	-	х	х		х	х	х	х
VRF_Eco	х		х		х	х	х								
ATW/ATA HP_Eco					х	х	х	х	х	х	х	х	х		
ATW/GHP HP_Con								х	х	x	х	х	х		х
Mini Chiller_Con/Evp					х	х	х		х	х		х	х		х
E-Bus_Battery Cooling		х					х	х	х					х	
Energy Storage Cooling								х	х	x	х	х	х	х	х
Transport_Eco/SuctionGas HX				х	х	х	х						х		х
Water Chiller_Evp					х	х			х	х		х	х	х	х
Water Chiller_Eco									х	x	х	х	х	х	х
Ref. Rack_Eco					х	х	х								
RefWaterloop_Con	х	х					х								
Oil Cooler								x			х	х		х	

Note: * The cooling capacities are based on R410A, condensing temperature 40° C, 5K subcooling, water inlet/outlet temperature 12° C/ 7° C, 5K superheat.

