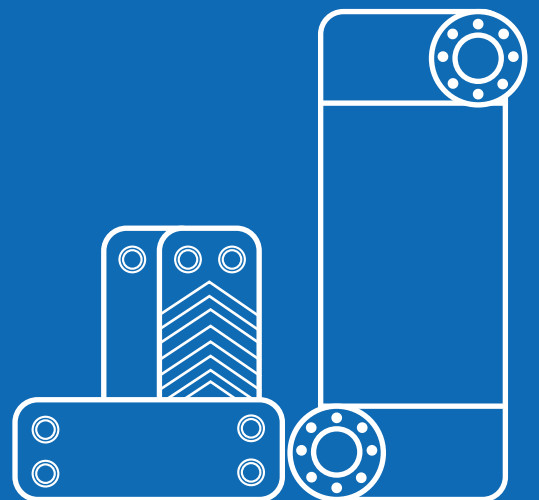


BRAZED PLATE HEAT EXCHANGER





ABOUT US

Refkar is a leading supplier of freon systems and heat transfer products in the Turkish market. It targets to position itself in the brazed plate heat exchanger market drawing on its 15 year experience.



OUR FACTORY

It performs production in international standards with its 3,500 m² closed factory area established on 6,500 m² outdoor area, advanced technology production systems, and trained operator staff.



COMPETENT STAFF

Since its establishment, Refkar has worked with a highly skilled team. It has trained and developed its employees within the framework of their competencies.

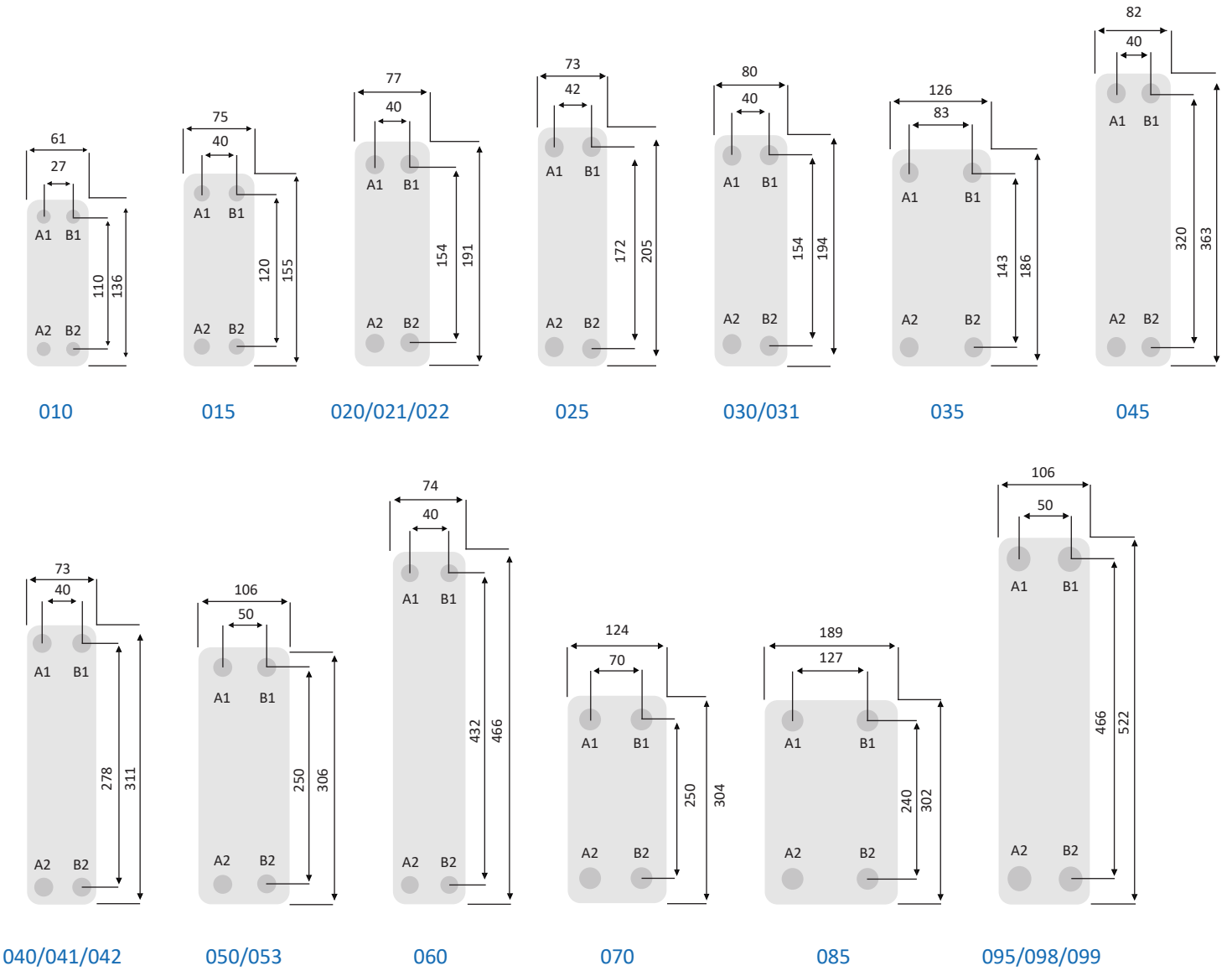


FAIRS AND TRAVELS

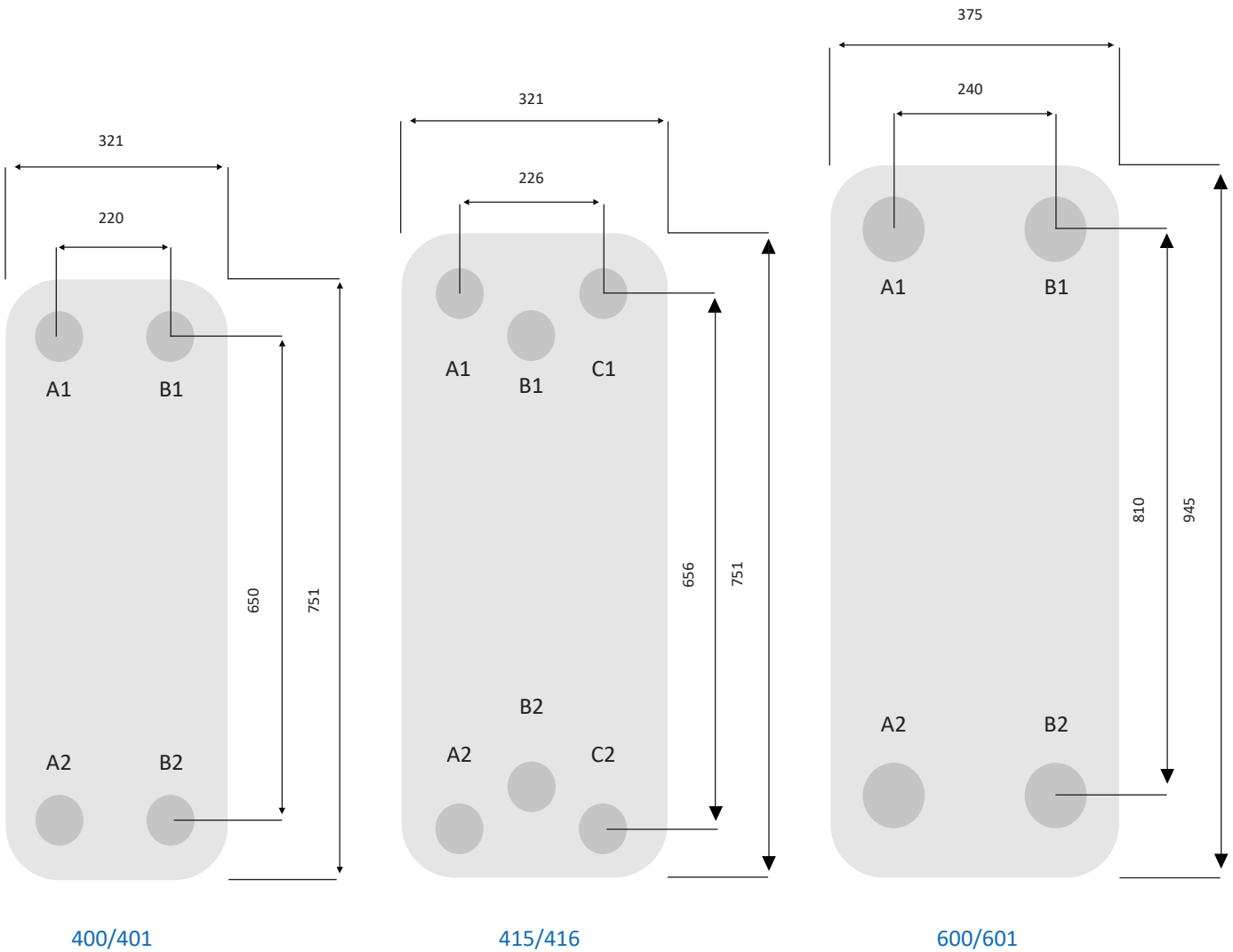
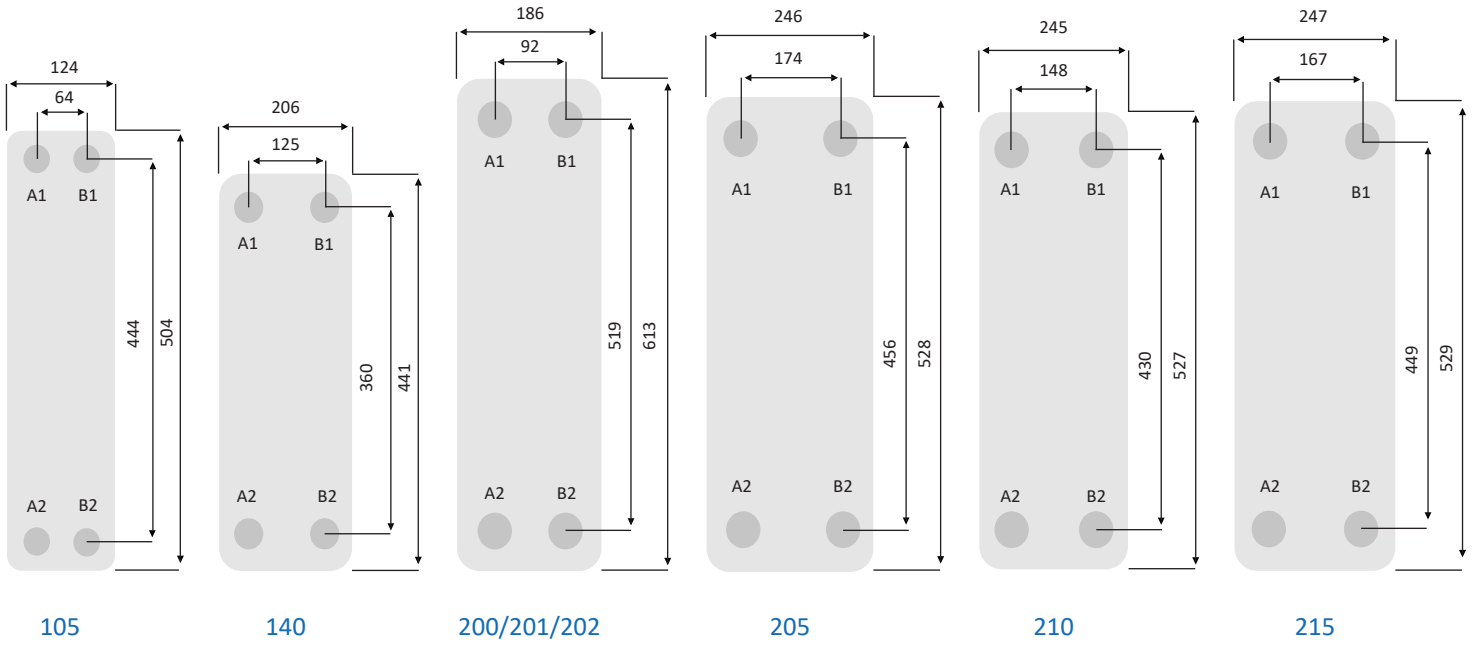
Refkar has conducted business trips, partner visits, and participated in fairs to more than 50 countries. As a result, it has succeeded in becoming a recognized brand in the international market.



DIMENSIONS OF THE BRAZED PLATE HEAT EXCHANGER



Unit: mm



B-SERIES STANDARD BRAZED PLATE HEAT EXCHANGER

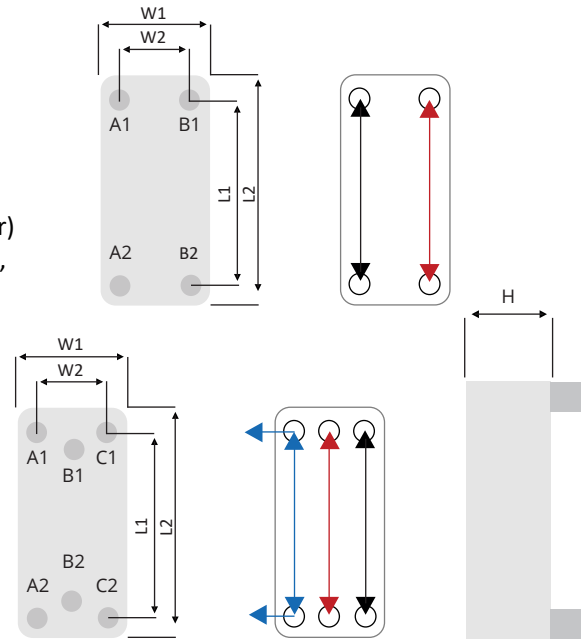
B-series offers the most options with regards to dimensions and is used commonly in heating and cooling applications.

Main application: HVAC, heating pump, oil cooler, regional heating and cooling.

B-KB Extra Power: Refkar type “B” BPHE (Brazed Plate Heat Exchanger) can withstand an operating pressure of maximum 45 bar in R410A application.

B-D True Double Circuits: Refkar type “D” BPHE (Brazed Plate Heat Exchanger) is designed to run two compressors with a true double-cooler circuit pattern, making it ideal for both full load and part load operating conditions.

Brazing Material	Copper	Copper (Extra Strength)	Nickel
	(A1,A2/B1,B2)		
Max. Operating Pressure (bar)	30/30	45/30	10/10
Min. Test Pressure (bar)	43/43	65/43	15/15
Max. Operating Temperature (°C)	200°C		



Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Width (mm)	Weight* (g) Without connections	Heat Transfer Area/plate (m ²)	Total Area of Heat Transfer (m ²)	Volume/Channel (liter)	Total Volume (liter)
B010	137.1	110.4	62.1	26.3	6.5+1.7*N	0.147+0.025*N	0.0064	(N-2)*0.0064	0,011	(N-1)*0.011
B025	205	172	73	42	6,70+2,27*N	0,48+0,040*N	0,0120	(N-2)*0,0120	0,025	(N-1)*0,025
B030	194	154	80	40	9,00+2,20*N	0,50+0,047*N	0,0117	(N-2)*0,0117	0,025	(N-1)*0,025
B040	311	278	73	40	9,00+2,30*N	0,79+0,070*N	0,0195	(N-2)*0,0195	0,040	(N-1)*0,040
B050	306	250	106	50	10,0+2,38*N	1,19+0,116*N	0,0255	(N-2)*0,0255	0,055	(N-1)*0,055
B060	466	432	74	40	10,0+2,30*N	1,19+0,100*N	0,0302	(N-2)*0,0302	0,064	(N-1)*0,064
B070	304	250	124	70	10,0+2,38*N	1,38+0,134*N	0,0300	(N-2)*0,0300	0,065	(N-1)*0,065
B095	522	466	106	50	11,0+2,38*N	2,38+0,204*N	0,0475	(N-2)*0,0475	0,095	(N-1)*0,095
B105	504	444	124	64	11,0+2,38*N	3,23+0,230*N	0,0533	(N-2)*0,0533	0,107	(N-1)*0,107
B200	613	519	186	92	14,0+2,40*N	6,89+0,404*N	0,0945	(N-2)*0,0945	0,206	(N-1)*0,206
B205	528	456	246	174	14,0+2,40*N	7,30+0,480*N	0,1099	(N-2)*0,1099	0,232	(N-1)*0,232
B210	527	430	245	148	11,5+2,85*N	6,68+0,465*N	0,1036	(N-2)*0,1036	0,289	(N-1)*0,289
B215	529	449	247	167	13,0+2,40*N	8,31+0,473*N	0,1103	(N-2)*0,1103	0,220	(N-1)*0,220

Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Width (mm)	Weight* (g) Without connections	Heat Transfer Area/plate (m ²)	Total Area of Heat Transfer (m ²)	Volume/Channel (liter)	Total Volume (liter)
B025KB	205	172	73	42	7,30+2,27*N	0,51+0,040*N	0,0120	(N-2)*0,0120	0,025	(N-1)*0,025
B030KB	194	154	80	40	11,0+2,20*N	0,96+0,047*N	0,0117	(N-2)*0,0117	0,025	(N-1)*0,025
B040KB	311	278	73	40	9,00+2,30*N	0,84+0,070*N	0,0195	(N-2)*0,0195	0,040	(N-1)*0,040
B050KB	306	250	106	50	12,0+2,38*N	2,39+0,116*N	0,0255	(N-2)*0,0255	0,055	(N-1)*0,055
B060KB	466	432	74	40	10,0+2,38*N	1,23+0,100*N	0,0302	(N-2)*0,0302	0,064	(N-1)*0,064
B070KB	304	250	124	70	12,0+2,38*N	2,52+0,134*N	0,0300	(N-2)*0,0300	0,065	((N-1)*0,065
B095KB	522	466	106	50	13,0+2,38*N	3,77+0,204*N	0,0475	(N-2)*0,0475	0,095	(N-1)*0,095
B105KB	504	444	124	64	13,0+2,40*N	5,47+0,237*N	0,0533	(N-2)*0,0533	0,107	(N-1)*0,107
B200KB	613	519	186	92	17,0+2,40*N	12,12+0,404*N	0,0945	(N-2)*0,0945	0,206	(N-1)*0,206
B205KB	528	456	246	174	16,5+2,40*N	13,36+0,480*N	0,1099	(N-2)*0,1099	0,232	(N-1)*0,232
B215KB	529	449	247	167	16,0+2,40*N	13,80+0,473*N	0,1103	(N-2)*0,1103	0,220	(N-1)*0,220

N: number of plates

The information above is for reference only; contact the company for different operating conditions.
te: 2°C / tc: 45°C / twin: 12°C / twout: 7°C

MODEL SELECTION TABLE

R410A vs. Water Condenser

RT	kW	BTU/H	B025KB	B030KB	B040KB	B050KB	B060KB	B070KB
0,2	0,70	2400	B025KBx8	B030KBx8				
0,5	1,76	6000	B025KBx16	B030KBx16	B040KBx10			
1	3,52	12000	B025KBx28	B030KBx28	B040KBx16	B050KBx10	B060KBx10	B070KBx12
1,5	5,27	18000			B040KBx20	B050KBx16	B060KBx14	B070KBx16
2	7,03	24000			B040KBx24	B050KBx20	B060KBx18	B070KBx20
2,5	8,79	30000				B050KBx26	B060KBx22	B070KBx26
3	10,55	36000				B050KBx32	B060KBx28	B070KBx32
4	14,06	48000				B050KBx42	B060KBx38	B070KBx42
5	17,58	60000				B050KBx52	B060KBx46	B070

R410A vs. Water Condenser

RT	kW	BTU/H	B095KB	B105KB	B200KB	B205KB	B215KB
4	14,06	48000	B095KBx20	B105KBx20			
5	17,58	60000	B095KBx24	B105KBx24			
7,5	26,37	90000	B095KBx36	B105KBx36			
10	35,16	120000	B095KBx48	B105KBx48			B215KBxD22
12,5	43,95	150000			B200KBx26	B205KBx26	
15	52,74	180000			B200KBx30	B205KBx30	B215KBxD30
20	70,32	240000			B200KBx40	B205KBx42	B215KBxD38
25	87,90	300000			B200KBx52	B205KBx54	B215KBxD50
30	105,48	360000			B200KBx64	B205KBx66	B215KBxD58
40	140,64	480000			B200KBx96	B205KBx98	B215KBxD82
50	175,80	600000				B205KBx170	

R410A vs. Water Vaporizer

RT	kW	BTU/H	B025	B030	B040	B050	B060	B070
0,2	0,70	2400	B025x12	B030x12				
0,5	1,76	6000	B025x20	B030x20	B040x12			
1	3,52	12000	B025x34	B030x34	B040x20	B050x12	B060Hx10	B070x12
1,5	5,27	18000			B040x30	B050x18	B060Hx16	B070x16
2	7,03	24000			B040x40	B050x22	B060Hx20	B070x20
2,5	8,79	30000				B050x26	B060Hx22	B070x24
3	10,55	36000				B050x36	B060Hx32	B070x34
4	14,06	48000				B050x46	B060Hx40	B070x44
5	17,58	60000				B050x54	B060Hx48	B070x52

R410A vs. Water Vaporizer

RT	kW	BTU/H	B095	B105	B200	B205	B215S
3	10,55	36000	B095x16	B105x18			
4	14,06	48000	B095x20	B105x24			
5	17,58	60000	B095x24	B105x30			
7,5	26,37	90000	B095x38	B105x44			
10	35,16	120000	B095x50	B105x56			B215KBxD26
12,5	43,95	150000			B200Hx30	B205x28	
15	52,74	180000			B200Hx36	B205x32	B215KBxD34
20	70,32	240000			B200Hx48	B205x44	B215KBxD42
25	87,90	300000			B200Hx60	B205x56	B215KBxD54
30	105,48	360000				B205x70V	B215KBxD62
40	140,64	480000				B205x108V	B215KBxD86

The information above is for reference only; contact the company for different operating conditions.
 te: 2°C / tc: 45°C / twin: 12°C / twout: 7°C

MODEL SELECTION TABLE

The information below is for reference only; please contact the company for different operating conditions.
 te: 2°C / tc: 45°C / twin: 12°C / twout: 7°C

R410A vs. Water Condenser

RT	kW	BTU/H	B025	B030	B040	B050	B060	B070
0,2	0,70	2400	B025x8	B030x8				
0,5	1,76	6000	B025x16	B030x16	B040x10			
1	3,52	12000	B025x30	B030x30	B040x18	B050x16	B060Hx14	B070x16
1,5	5,27	18000			B040x24	B050x22	B060Hx20	B070x22
2	7,03	24000			B040	B050x28	B060Hx24	B070x26
2,5	8,79	30000				B050x34	B060Hx30	B070x32
3	10,55	36000				B050x42	B060Hx38	B070x40
4	14,06	48000				B050x56	B060Hx50	B070x54
5	17,58	60000				B050x68	B060Hx60	B070x66

R410A vs. Water Condenser

RT	kW	BTU/H	B095	B105	B200	B205	B215D
3	10,55	36000	B095x18	B105x18			
4	14,06	48000	B095x24	B105x24			
5	17,58	60000	B095x28	B105x28			
7,5	26,37	90000	B095x42	B105x42			
10	35,16	120000	B095x56	B105x56	B200Hx30	B205x20	B215Dx18
12,5	43,95	150000			B200Hx38	B205x26	
15	52,74	180000			B200Hx46	B205x30	B215Dx30
20	70,32	240000			B200Hx60	B205x42	B215Dx38
25	87,90	300000			B200Hx76	B205x54	B215Dx50
30	105,48	360000			B200Hx90	B205x66	B215Dx58
40	140,64	480000			B200Hx120	B205x98	B215Dx82
50	175,80	600000				B205x138	

R410A vs. Water Vaporizer

RT	kW	BTU/H	B025	B030	B040	B050	B060	B070
0,2	0,70	2400	B025x12	B030x12				
0,5	1,76	6000	B025x20	B030x20	B040x12			
1	3,52	12000	B025x36	B030	B040x20	B050x14	B060Mx14	B070x14
1,5	5,27	18000			B040x32	B050x18	B060Mx18	B070x18
2	7,03	24000			B040x40	B050x22	B060Mx22	B070x20
2,5	8,79	30000				B050x28	B060Mx28	B070x26
3	10,55	36000				B050x36	B060Mx36	B070x34
4	14,06	48000				B050x44	B060Mx44	B070x42
5	17,58	60000				B050x56	B060Mx56	B070x54

R410A vs. Water Vaporizer

RT	kW	BTU/H	B095	B105	B200	B205	B215D
2,5	8,79	30000	B095x16	B105x20			
3	10,55	36000	B095x20	B105x24			
4	14,06	48000	B095x24	B105x30			
5	17,58	60000	B095x30	B105x36			
7,5	26,37	90000	B095x46	B105x54			
10	35,16	120000	B095x64	B105x84	B200Hx32	B205x32	B215Dx34
12,5	43,95	150000			B200Hx38	B205x40	
15	52,74	180000			B200Hx46	B205x48	B215Dx46
20	70,32	240000			B200Hx60	B205x64V	B215Dx62
25	87,90	300000				B205x84V	B215Dx78
30	105,48	360000				B205x108V	B215Dx94
40	140,64	480000				B205x180V	B215Dx126V

MODEL SELECTION TABLE

R410A vs. Water Condenser

RT	kW	BTU/H	B025	B030	B040	B050	B060	B070
0,2	0,70	2400	B025x12	B030x12				
0,5	1,76	6000	B025x26	B030x26	B040x14			
1	3,52	12000	B025x44	B030x44	B040x24	B050x20	B060Hx18	B070x18
1,5	5,27	18000			B040x32	B050x30	B060Hx26	B070x28
2	7,03	24000			B040x42	B050x38	B060Hx34	B070x36
2,5	8,79	30000				B050x50	B060Hx44	B070x48
3	10,55	36000				B050x60	B060Hx54	B070x58
4	14,06	48000				B050x76	B060Hx68	B070x74

R410A vs. Water Condenser

RT	kW	BTU/H	B095	B105	B200	B205	B215D
2	7,03	24000	B095x18	B105x18			
2,5	8,79	30000	B095x20	B105x20			
3	10,55	36000	B095x26	B105x28			
4	14,06	48000	B095x36	B105x38			
5	17,58	60000	B095x44	B105x48			
7,5	26,37	90000	B095x66	B105x72	B200Hx36	B205x34	
10	35,16	120000	B095x88	B105x96	B200Hx46	B205x42	B215Dx42
12,5	43,95	150000			B200Hx58	B205x54	
15	52,74	180000			B200Hx70	B205x64	B215Dx66
20	70,32	240000			B200Hx94	B205x86	B215Dx82
25	87,90	300000			B200Hx118	B205x108	B215Dx106
30	105,48	360000			B200Hx140	B205x128	B215Dx126
40	140,64	480000				B205x176	B215Dx170

R410A vs. Water Vaporizer

RT	kW	BTU/H	B025	B030	B040	B050	B060	B070
0,2	0,70	2400	B025x10	B030x10				
0,5	1,76	6000	B025x16	B030x16	B040x10			
1	3,52	12000	B025x28	B030x28	B040x14	B050x10	B060Mx10	B070x10
1,5	5,27	18000			B040x20	B050x14	B060Mx14	B070x14
2	7,03	24000			B040x26	B050x16	B060Mx16	B070x16
2,5	8,79	30000				B050x18	B060Mx18	B070x18
3	10,55	36000				B050x22	B060Mx22	B070x22
4	14,06	48000				B050x28	B060Mx30	B070x28
5	17,58	60000				B050x36	B060Mx40	B070x36

R410A vs. Water Vaporizer

RT	kW	BTU/H	B095	B105	B200	B205	B215D
4	14,06	48000	B095x20	B105x18			
5	17,58	60000	B095x24	B105x22			
7,5	26,37	90000	B095x38	B105x38			
10	35,16	120000	B095x50	B105x50			B215Dx22
12,5	43,95	150000			B200Hx28	B205x28	
15	52,74	180000			B200Hx34	B205x34	B215Dx30
20	70,32	240000			B200Hx44	B205x44	B215Dx42
25	87,90	300000			B200Hx56	B205x58	B215Dx54
30	105,48	360000				B205x72V	B215Dx66
40	140,64	480000				B205x110V	B215Dx86

The information above is for reference only; contact the company for different operating conditions.
 te: 2°C / tc: 45°C / twin: 12°C / twout: 7°C

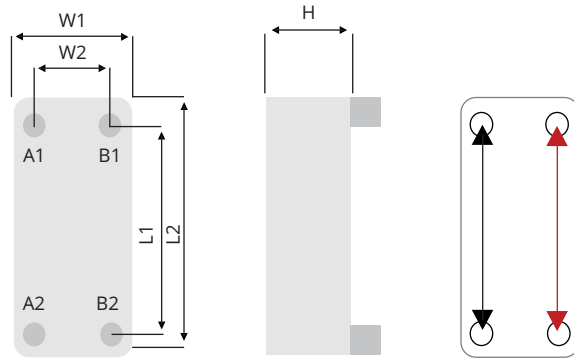
B-SERIES BRAZED PLATE HEAT EXCHANGER WITH HIGH HEAT TRANSFER PERFORMANCE



KB series represents the upgraded version of B series and is designed specifically for R410A system; its heat transfer efficiency is 10 % higher than the B series. In addition the KB series is suitable for applications where pressure drop is not crucial.

KB series is ideal for Heat Pump and HVAC system.

Brazing Material	Standard Copper	KB Copper (Extra Power)
Model	R050, R095	R051, R096
	(A1, A2/B1, B2)	
Max. Operating Pressure (bar)	30/30	45/30
Min. Test Pressure (bar)	43/43	65/43
Max. Operating Temperature (°C)	200 °C	



Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Width (mm)	Weight* (g) Without connections	Heat Transfer Area/plate (m ²)	Total Area of Heat Transfer (m ²)	Volume/Channel (liter)	Total Volume (liter)
B053	306	250	106	50	10,0+1,80*N	1,32+0,089*N	0,0255	(N-2)*0,0255	0,038	(N-1)*0,038
B098	522	466	106	50	10,0+1,85*N	2,73+0,154*N	0,0475	(N-2)*0,0475	0,076	(N-1)*0,076

Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Width (mm)	Weight* (g) Without connections	Heat Transfer Area/plate (m ²)	Total Area of Heat Transfer (m ²)	Volume/Channel (liter)	Total Volume (liter)
B054	306	250	106	50	12,0+1,80*N	2,10+0,089*N	0,0255	(N-2)*0,0255	0,038	(N-1)*0,038
B099	522	466	106	50	12,0+1,85*N	2,74+0,154*N	0,0475	(N-2)*0,0475	0,076	(N-1)*0,076

MODEL SELECTION TABLE

R410A vs. Water Condenser As per ARI-450 standard

RT	kW	BTU/H	B054	B099
1	3,52	12000	B054x10	
2	7,03	24000	B054x16	
2,5	8,79	30000	B054x20	
3	10,55	36000	B054x24	
4	14,06	48000	B054x30	B099Mx18
5	17,58	60000	B054x38	B099Mx24
7,5	26,37	90000	B054x56	B099Mx34
10	35,16	120000	B054x74	B099Mx46
12,5	43,95	150000		B099Mx58
15	52,74	180000		B099Mx72
20	70,32	240000		B099Mx100

R410A vs. Water Vaporizer As per ARI-480 standard

RT	kW	BTU/H	B054	B099
1	3,52	12000	B054x10	
2	7,03	24000	B054x18	
2,5	8,79	30000	B054x20	
3	10,55	36000	B054x24	
4	14,06	48000	B054x32	B099Mx20
5	17,58	60000	B054x40	B099Mx24
7,5	26,37	90000	B054x62	B099Mx36
10	35,16	120000	B054x90	B099Mx48
12,5	43,95	150000		B099Mx62
15	52,74	180000		B099Mx76
20	70,32	240000		B099Mx108

The information above is for reference only; contact the company for different operating conditions.
te: 2°C / tc: 45°C / twin: 12°C / twout: 7°C

STANDARD CONNECTIONS

Model	Screw Connections											Height (mm)
	PT/NPT/GB											
	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	
010	⊙	●										13/15/20
015	⊙	⊙	●									13/15/20
020/021/022	⊙	⊙	●									15/20
025	⊙	⊙	●									15/20
030		⊙	⊙									15/20
035			○	○								27
040/041/042		⊙	●									15/20
045		⊙	●									15/20
050/053/054		⊙	⊙	⊙	●							27
060		⊙	●									27
070		⊙	⊙	⊙	⊙	●						27
085			○	○	○	○						27
095/099/100		⊙	⊙	⊙	●							27
105		⊙	⊙	⊙	⊙	●						27
200/201/202				⊙	⊙	⊙	●	●				27/54
205				⊙	⊙	⊙	●					27/54
210				⊙	⊙	⊙	⊙	⊙	●★			27/42
215				⊙	⊙	⊙	⊙	●				27/54
400/401						⊙	⊙★	⊙★	⊙★			27/54/81
415/416						⊙	⊙★	⊙★	●★			27/54/81
600/601						⊙	⊙★	⊙★	⊙★	⊙★	●★	27/54/81

⊙ Male/Female ○ Female Screw ● Male Screw ★ Flange

STANDARD CONNECTIONS

Model	Braze Connections															Height (mm)
	inç	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 3/8"	1 5/8"	2 1/8"	2 1/2"	2 5/8"	3 1/8"	
	mm	6,6	9,73"	12,9	16,15"	19,25"	22,36"	25,6"	28,8"	35,25	41,5	54,3"	63,5	67	79,4"	
010	▲	▲														13/15/20
015	▲	▲	▲	▲												13/15/20
020/021/022	▲	▲														15/20
025	▲	▲	▲	▲												15/20
030			▲	▲	▲	▲										15/20
040/041/042			▲	▲	▲											27
045			▲	▲	▲											27
050/051			▲	▲	▲	▲	▲	▲	▲							15/20
060			▲	▲	▲											27
070			▲	▲	▲	▲	▲	▲	▲	▲						27
095/096/097			▲	▲	▲	▲	▲	▲	▲	▲						27
105			▲	▲	▲	▲	▲	▲	▲	▲	▲					27
200/201/202			▲	▲	▲	▲	▲	▲	▲	▲	▲	▲				27
205			▲	▲	▲	▲	▲	▲	▲	▲	▲	▲				27/54
210							▲	▲	▲	▲	▲	▲	▲	▲	▲	27/42
215			▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		27/54
400/401							▲	▲	▲	▲	▲	▲	▲	▲	▲	27/54/81
415/416							▲	▲	▲	▲	▲	▲	▲	▲		27/54/81
600/601							▲	▲	▲	▲	▲	▲	▲	▲	▲	27/54/81

Different connections designs are available for various specifications.

Connection types: brazing (welding), female/male, screwed, flange, combination, hydraulic, victaulic, fast, temperature control, counterparty, etc. Refkar offers specialized connections depending on your demands.

Welding Process (Reduction)

Cleaning and oil removal on the copper pipes and BPHE connection before welding. Protect the internal part with N2 gas in order to prevent oxidation on copper pipes and BPHE. Put the BPHE on a flat surface and wrap a damp cloth around the connection to protect it from overheating. **Using a 40-45% silver alloy brazing rod, braze the copper pipe to the connection with a maximum temperature of 800°C.** Clean and dry the connection and BPHE after brazing.

INSTALLATION

1) INSTALLATION

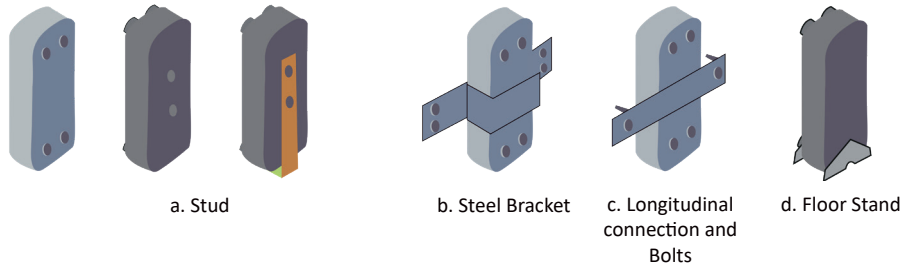
BPHE should be installed as described below.

Figure 1

Adjustment	Vertical	Horizontal	Sloping to the floor	Inclined	Inclined
Flow direction of the product					
Reverse flow	Vaporizer: ○ Condenser: ○ Cooler: ○	Vaporizer: × Condenser: × Cooler: ○	Vaporizer: × Condenser: × Cooler: ○	Vaporizer: × Condenser: × Cooler: ○	Vaporizer: × Condenser: × Cooler: ○
Diagonal flow	Vaporizer: ○ Condenser: ○ Cooler: ○	Vaporizer: ○ Condenser: ○ Cooler: ○	Vaporizer: × Condenser: × Cooler: ○	Vaporizer: × Condenser: × Cooler: ○	Vaporizer: × Condenser: × Cooler: ○

Figure 2

*Vibration damper or other absorber devices are recommended.



2) COOLING TOWER WATER SOFTENING PROCESS

Water softening and normal operations in the cooling tower can reduce the problem of clogging due to residues. When using chemical additives during the cleaning process, the concentrations of these additives should be carefully checked. Avoid using abrasive additives. If the stainless steel or copper enters into reaction with abrasive materials, the pressure resistance of the brazing connections will decrease and this will cause internal and external leaks. In order to avoid this issue, please review the following information for the appropriate chemical substances:

PH: 6-8	SO ₄ ⁻² < 30mg/LPH: 6-8
Cl ⁻ < 50ppm (< 100°C)	NH ₄ ⁺ < 0.1mg/L

3) PREVENTING WATER HAMMER

Water hammer occurs when incompressible liquids are carried over the pipes and flow speed suddenly changes. These occur most commonly when the solenoid valve is suddenly closed and a pressure spike is formed in the pipes. This damages the valve, heat exchanger and other devices. In order to avoid the above-mentioned issue, it is recommended to install a pressure absorber pipe, water hammer arrestor, air reservoir, etc.

4) CLEANING

In case of accumulation in BPHE, it is possible to carry out a reverse flush in order to remove the soft deposit clogging the interior. Take weak acids such as citric acid, oxalic acid into a tank in concentrations lower than 5%. Circulate the cleaning solution. Before starting the system, flush the BPHE with plenty of water in order to fully remove the remaining acid solution. If the acidity rate is high, the copper and stainless steel inside the BPHE can swell or erode.



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