

ABX - Brazed Plate Heat Exchangers

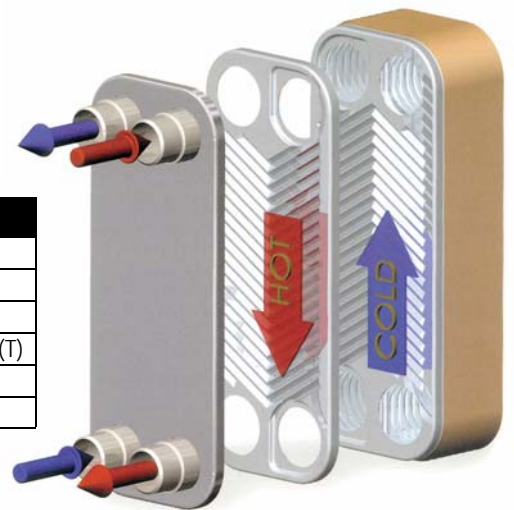
SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
ENGINEER: _____	ORDER NO: _____ DATE: _____
CONTRACTOR: _____	SUBMITTED BY: _____ DATE: _____
	APPROVED BY: _____ DATE: _____

Quantity	TAG No.	Model No.	Comments

ABX - BRAZED PLATE HEAT EXCHANGERS

Armstrong's ABX brazed plate heat exchangers are designed to facilitate heat transfer between two media of different temperatures without allowing them to mix. The high heat transfer rates allow for a compact design, and the stainless steel construction combined with copper or nickel brazing creates a robust and corrosion resistant unit. The design and construction conform to ASME code.



TECHNICAL DATA		
	Copper	Nickel
Design Pressure	450 psi (3103 kPa)	230 psi (1586 kPa)
Max. Temperature	385°F (196°C)	385°F (196°C)

OPTIONS	
<input type="checkbox"/>	Wide gap (G)
<input type="checkbox"/>	Refrigerant Dist. (E)
<input type="checkbox"/>	Mounting studs (M)
<input type="checkbox"/>	Twin evaporator - three fluids (T)
<input type="checkbox"/>	Two-pass (U)
<input type="checkbox"/>	Double Wall (D)

MATERIALS OF CONSTRUCTION	
Plates	<input type="checkbox"/> 316 Stainless Steel <input type="checkbox"/> SM0254
Connection	316 Stainless Steel
Braze	<input type="checkbox"/> Copper <input type="checkbox"/> Nickel

CONNECTION SIZE inches											
SB1	SB2	SB22	SB24	SBG24	SB3	SB4	SB5	SB7	SB8	SB9	SB10
Solder											
0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.750	0.750	1.625	1.625
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.875	0.875	2.000	2.000
0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	1.250	1.250	2.125	2.125
0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	1.375	1.375	2.625	2.625
0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	1.500	1.500	3.000	3.000
							1.250	1.250	1.625	1.625	3.125
							1.375	1.375	2.000	2.000	3.375
								2.125	2.125		
									2.625		
MPT											
0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.25	1.50	1.50	2.50
0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.50	2.00	2.00	3.00
						1.00	1.00	2.00	2.50	2.50	3.50
							1.25	1.25		3.00	4.00

DIMENSIONS and WEIGHTS

Model	A	B	C	D	F	G	L	Weight
SB1	8.00 (203.2)	6.69 (169.9)	2.88 (73.2)	1.57 (39.9)	—	—	0.3+N(0.095) [7.62+N(2.41)]	1.54+N(0.11) [0.70+N(0.05)]
SB2	9.06 (230.1)	7.19 (182.6)	3.50 (88.9)	1.69 (42.9)	—	—	0.47+N(0.095) [11.94+N(2.41)]	2.42+N(0.13) [1.1+N(0.059)]
SB22	12.80 (325.1)	11.00 (279.4)	3.50 (88.9)	1.69 (42.9)	—	—	0.4+N(0.1) [10.16+N(2.54)]	3.14+N(0.18) [1.42+N(0.08)]
SB24	18.15 (461.0)	16.34 (415.0)	3.50 (88.9)	1.69 (42.9)	—	—	0.47+N(0.095) [11.94+N(2.41)]	4.20+N(0.31) [1.91+N(0.141)]
SBG24	18.15 (461.0)	16.34 (415.0)	3.50 (88.9)	1.69 (42.9)	—	—	0.46+N(0.115) [11.68+N(2.92)]	4.20+N(0.33) [1.91+N(0.150)]
SB3	6.73 (170.9)	4.72 (119.9)	4.88 (124.0)	2.88 (73.15)	—	—	0.51+N(0.095) [12.95+N(2.41)]	2.64+N(0.13) [1.20+N(0.059)]
SB4	13.07 (332.0)	11.06 (280.9)	4.88 (124.0)	2.88 (73.15)	5.51 (140.0)	M8x20	0.51+N(0.095) [12.95+N(2.41)]	3.52+N(0.29) [1.60+N(0.131)]
SB5	20.83 (529.1)	18.81 (477.8)	4.88 (124.0)	2.88 (73.15)	5.51 (140.0)	M8x30	0.51+N(0.095) [12.95+N(2.41)]	4.41+N(0.53) [2.00+N(0.240)]
SB7	20.83 (529.1)	18.11 (460.0)	10.59 (268.99)	7.88 (200.15)	5.51 (140.0)	M12x30	0.53+N(0.095) [13.46+N(2.41)]	21.2+N(1.2) [9.6+N(0.544)]
SB8	20.83 (529.1)	16.58 (421.132)	10.59 (268.99)	6.34 (161.4)	5.51 (140.0)	M12x30	0.4+N(0.1) [10.16+N(2.54)]	22.1+N(1.2) [10.0+N(0.544)]
SB9	31.42 (798.1)	21.17 (537.72)	10.59 (268.99)	6.34 (161.4)	—	—	0.53+N(0.095) [13.46+N(2.41)]	25.4+N(1.8) [11.52+N(0.82)]
SB10	34.25 (870.0)	28.46 (722.9)	15.08 (383.0)	9.33 (237.0)	—	—	0.91+N(0.095) [23.11+N(2.41)]	87.1+N(2.8) [39.51+N(1.27)]

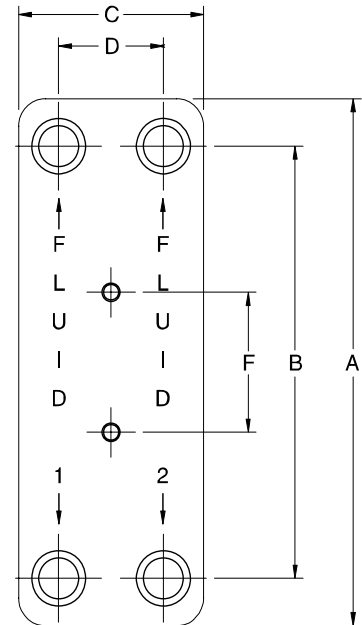
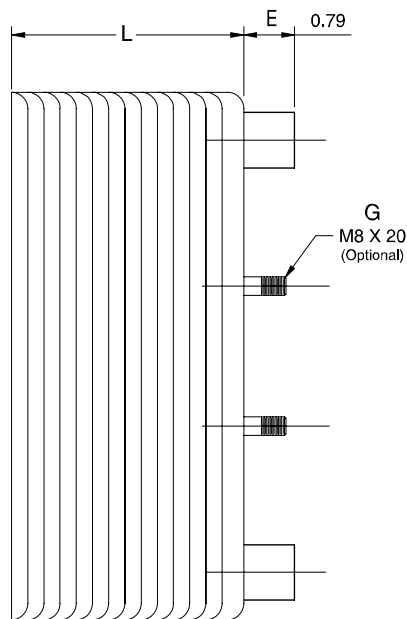
Note: N is the number of plates

DIMENSIONS

Model	Connection Size	E
Solder	All sizes	0.79 (20.1)
MPT	0.50	0.79 (20.1)
	0.75	0.79 (20.1)
	1.00	0.79 (20.1)
	1.25	1.57 (39.9)
	1.50	2.56 (65.0)
	2.00	2.56 (65.0)
	2.50	2.56 (65.0)
	3.00	2.56 (65.0)
	3.50	2.56 (65.0)
4.00	2.56 (65.0)	

Notes:

- Connections available in MNPT or Solder.
- Fluid 1 and 2 should normally be piped for counter current flow. However, this depends on the particular application.
- Inlets & outlets to be piped to industries best practices.
- Largest particle size to pass through all models is 0.03 inches, other than SBG which is 0.04 inches.
- All dimensions are in inches (mm) and weights are in lbs. (kg).



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