



Brazed Plate Heat Exchangers

SOLUTION OUTLINE

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Brazed Plate Heat exchangers are an efficient and economical solution for heat transfer between two fluids in a system. They consist of a number of specially corrugated metal plates, brazed together.

APPLICATION FRIENDLY

Armstrong ABX and ABD Brazed Plate heat exchangers are designed for use in a wide range of applications, including:

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|----------------------------|---------------------------------------|
| Radiant floor heating | Swimming pool heating |
| Heat recovery | Refrigeration |
| Snow melting | Heat pumps |
| District heating | As boiler accessories |
| Domestic hot water heating | Smaller liquid-to-liquid applications |
| Steam condensing | |

INSTALLATION ADVANTAGE

Armstrong (ABX, ABD) Brazed Plate Heat Exchangers are very compact for installation in tight spaces. All connections are on the same plane to make installation easy. These units are durable and light, so they are suited for all kinds of applications requiring heat exchangers.

SPACE SAVINGS

Due to their high heat transfer capabilities, Armstrong Brazed Plate heat exchangers are substantially smaller in size than other heat transfer devices, yet provide the same or better performance.

Plate heat exchangers save up to 75% of the floor area, and up to 85% of the floor length required for Shell & Tube heat exchangers.

The smallest Brazed plate units measure only 7.64" x 3.15" (194 mm x 80 mm)
Models with 10 plates are only 1.29" (32.766 mm) thick.



ENERGY EFFICIENCY

Armstrong ABX and ABD Brazed Plate Heat Exchangers deliver the highest efficiency and heat transfer rates by flowing the two media in opposite directions (countercurrent) in a highly turbulent fashion.

OCCUPANT COMFORT

Brazed Plate heat exchangers react more rapidly to changes in system demand. The turbulent flow design prevents scaling on the plates, so the heat exchanger continues to react quickly even as the equipment ages.

LOWEST SOLUTION COST

The ABX and ABD offers multiple plate sizes for the optimum heat transfer in any given application. Brazing seals the plates together, so no gaskets are required. The brazed design and anti-scaling flow design reduce maintenance costs.

LONG EQUIPMENT LIFE

ABX and ABD Brazed Plate heat exchanger plates are made from 304 and 316 stainless steel respectively to provide improved corrosion resistance.

Brazed Plate heat exchangers are easy to size and install. Most models are available in stock.

TECHNICAL DATA

ABX - SINGLE WALL CONSTRUCTION

Max. Working Pressure: Copper Braze: 435 PSI
Fluid Temperature : Maximum: 392°F (200°C)
 Minimum: -148°F (-100°C)

Materials of Construction: Plates: 316 SS
 Braze: Copper
 Connection: 304 SS
 Optional: Nickel

ABD - DOUBLE WALL CONSTRUCTION

Max. Working Pressure: Copper Braze: 435 PSI
Fluid Temperature : Maximum: 392°F (200°C)
 Minimum: -148°F (-100°C)

Materials of Construction: Plates: 316 SS
 Braze: Copper
 Connection: 304 SS
 Optional: Nickel

MODEL	MAX. NO OF PLATES	CONN SIZE in	MAX. FLOW RATE-gpm(L/s)	HEIGHT in (mm)	WIDTH in (mm)	MAX LENGTH in (mm)	WEIGHT lbs (kgs)
ABX030	60	0.75	30 (2)	7.64 (194)	3.15 (80)	0.39+0.09N (10+2.25N)	2.0+0.11N (0.8+0.05N)
ABX050	120	1.00	100 (6)	12.00 (305)	4.20 (106)	0.49+0.09N (12.5+2.4N)	4.0+0.3N (1.5+0.14N)
ABX095	120	1.00	120 (6)	20.40 (518)	4.20 (106)	0.49+0.09N (12.5+2.4N)	7.0+0.5N (3.1+0.22N)
ABX205	220	2.00	200 (13)	20.79 (528)	9.69 (246)	0.51+0.09N (13+2.4N)	16.0+1.1N (7.2+0.52N)
ABX400	200	3.00	395 (25)	29.56 (751)	12.63 (321)	0.62+0.09N (16+2.33N)	69.18+1.77N (31.38+0.805N)
ABX600	200	4.00	660 (42)	37.20 (945)	14.76 (375)	0.94+0.09N (24+2.38N)	137.65+2.71N (62.44+1.230N)
ABD030	60	0.75 MNPT	30 (2)	7.95 (202)	3.62 (92)	0.315+0.095N (8+2.4N)	1.39+0.229N (0.63+0.104N)
ABD070	120	1.00 MNPT	70 (4)	11.97 (304)	4.88 (124)	0.37+0.1024N (9.3+2.6N)	3.81+0.464N (1.73+0.21N)
ABD206	200	2.00 MNPT	200 (13)	20.79 (528)	9.69 (246)	0.65+0.1024N (16.5+2.6N)	29.94+1.72N (13.58+0.78N)

NOTE:

* ASME Standard and CRN (ON, AB, BC, QC, SK) optional for all the above products

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