

JOB:
REPRESENTATIVE:

UNIT TAG:

ORDER NUMBER:

DATE:

ENGINEER:

SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



Type BPX™ Brazed Plate Heat Exchanger

DESCRIPTION

Bell & Gossett type BPX brazed plate heat exchangers offer the highest level of thermal efficiency and durability in a compact, low cost unit. The corrugated plate design provides very high heat transfer coefficients, resulting in a more compact design. The unit's stainless steel plates are vacuum brazed together to form a durable, integral piece that can withstand high pressure and temperature.

DESCRIPTION

1. MODEL NUMBER: _____

Service: Cooler: _____ Heater: _____

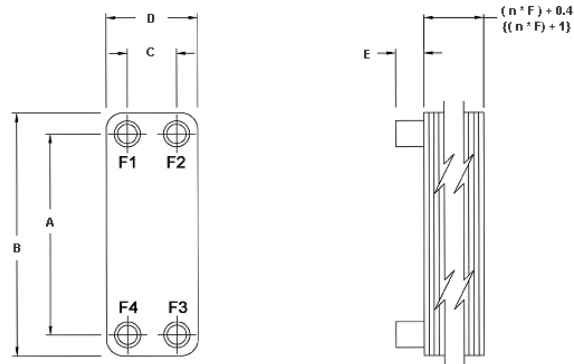
PRIMARY SIDE

SECONDARY SIDE

2. Fluid Circulated
3. Total Flow Expressed in GPM, GPH or lbs./min
4. Specific Gravity
5. Specific Heat
6. Latent Heat
7. Viscosity Expressed in Proper Units and Temperature such as centipoises @ °F
8. Temperature In/Out
9. Heat Load BTU/hr
10. Thermal Conductivity
11. Maximum Operating Temperature of Unit
12. Pressure Drop (Maximum)
13. Fouling Factor or Percentage of Additional Surface
14. ASME Code

Y or N

APPROVALS



DIMENSIONS

MODEL	INCHES (mm)						MNPT Connection	Volume Gal/ channel (L/Chnl)	Surface Area per plate sq. ft. (sq. m)	Shipping Weight Lbs. {(kg)}
	A	B	C	D	E	F				
BP400	6.8 (172)	8.2 (208)	1.7 (42)	3.1 (79)	1.0 (24)	0.1 (2.4)	3/4"	0.01 (0.03)	0.13 (0.01)	$^{*}(0.13 \times n + 1.5)^{*}1.01$ $\{((0.06 \times n + 0.7)^{*}1.01)\}^n$
BP410	9.8 (250)	12.2 (310)	2.0 (50)	4.4 (112)	1.0 (24)	0.1 (2.4)	1"	0.02 (0.06)	0.28 (0.03)	$^{*}(0.29 \times n + 2.6)^{*}1.01$ $\{((0.13 \times n + 1.2)^{*}1.01)\}^n$
BP411	9.8 (250)	12.2 (310)	2.0 (50)	4.4 (112)	1.0 (24)	0.1 (2.4)	1"	0.02 (0.06)	0.28 (0.03)	$^{*}(0.29 \times n + 2.6)^{*}1.01$ $\{((0.13 \times n + 1.2)^{*}1.01)\}^n$
BP412	9.8 (250)	12.2 (310)	2.0 (50)	4.4 (112)	1.0 (24)	0.1 (2.4)	1"	0.02 (0.06)	0.28 (0.03)	$^{*}(0.29 \times n + 2.6)^{*}1.01$ $\{((0.13 \times n + 1.2)^{*}1.01)\}^n$
BP415	18.4 (466)	20.7 (526)	2.0 (50)	4.4 (112)	1.0 (24)	0.1 (2.4)	1"	0.03 (0.10)	0.57 (0.05)	$^{*}(0.51 \times n + 4.2)^{*}1.01$ $\{((0.23 \times n + 1.9)^{*}1.01)\}^n$
BP422	20.4 (519)	24.3 (617)	3.6 (92)	7.5 (191)	1.9 (48)	0.1 (2.5)	2"	0.07 (0.27)	1.06 (0.10)	$^{*}(0.97 \times n + 15.4)^{*}1.01$ $\{((0.44 \times n + 7.0)^{*}1.01)\}^n$

Dimensions are subject to change. Not to be used for construction purposes unless certified.

n = Number of Channel Plates

TYPICAL CONNECTION LOCATIONS

Duty - Steam-to-Liquid

	BP400, BP410, BP411, BP412, BP415, BP422
Steam In	F1
Condensate Out	F4
Liquid In	F3
Liquid Out	F2

Duty - Refrigeration-to-Liquid

	BP400, BP410, BP411, BP412, BP415, BP422	
	Condenser	Evaporator
Refrig. In	F1	F4
Refrig. Out	F4	F1
Liq. In	F3	F2
Liq. Out	F2	F3

	Maximum Number of Plates
BP400	50
BP410	150
BP411	150
BP412	150
BP415	150
BP422	150

STANDARD MATERIALS

COVER PLATES: Stainless Steel ASTM 316L

CHANNEL PLATES: Stainless Steel ASTM 316L

BRAZING MATERIAL: Copper

CONNECTIONS: From 1/2" to 4" Stainless Steel ASTM 316L

CAPACITY: Up to 800 GPM

CONSTRUCTION CODES: UL, CRN, ASME Code Stamp Option

TECHNICAL DATA (Standard Design)

DESIGN PRESSURE (All Models)	DESIGN TEMPERATURE (All Models)
435 PSIG (30 bar)	-310° F min. (-195° C) 450° F max. (232° C)

NOTE: Model BPX units cannot be opened nor can plates be added or removed.



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To learn more about
heat exchangers:

