



Bell & Gossett

**BPX™ Brazed Plate
Heat Exchangers**
For Residential Applications

Radiant Floors

Snow Melt

Domestic Hot Water

Pool Heating



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Engineered for life

BPX Brazed Plate Heat Exchangers.

Smaller. Lighter. Stronger.
More Efficient.

Bell & Gossett Brazed Plate Heat Exchangers are ideal for residential and light commercial hydronic systems because they provide maximum heat dissipation from a compact, lightweight heat exchanger. Unlike conventional shell and tube heat exchangers, our units can be used even in applications where space is at a premium. Their efficient design allows them to provide more heat transfer using less space, making them well suited to a variety of installations, including:

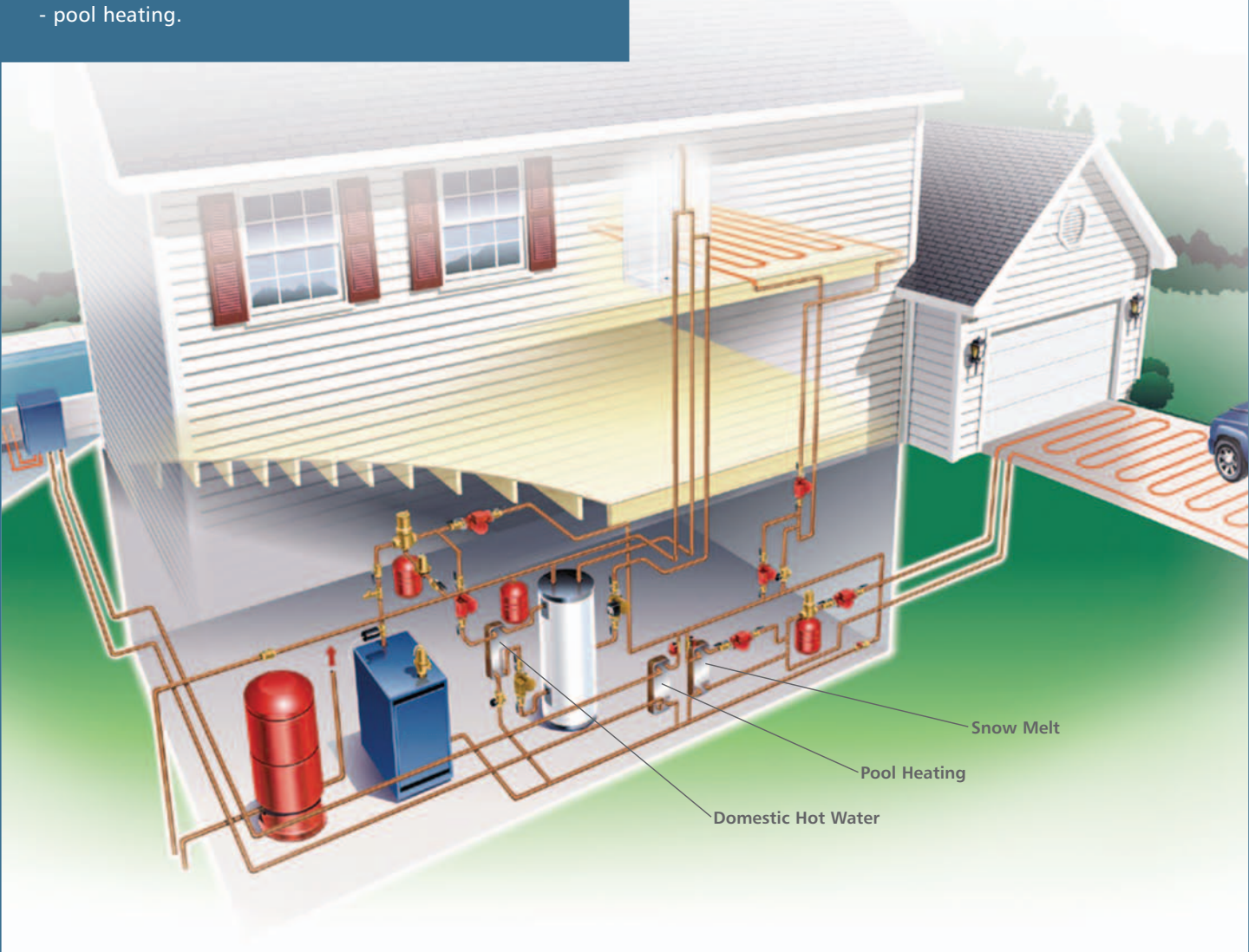
- radiant floors.
- snow melt.
- domestic hot water.
- pool heating.

Superior heat transfer.

The 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.

Compared to shell and tube exchangers, the BPX Heat Exchangers offer a more compact design

- 1/6 the size
- 1/5 the weight
- 1/8 the liquid required
- 1/3 to 1/5 of the surface area required



Small size. Big impact.

Construction Codes:
Available codes include UL, CRN, and ASME Code Stamp.

Materials:
Stainless Steel 316L plates. Copper brazed material.

Capacity:
Up to 800 GPM and 350 Sq.ft. of surface area.



Mechanical Design:
Design pressures up to 435 psig.
Maximum design temperature up to 450°F.
Minimum design temperature to -310°F.

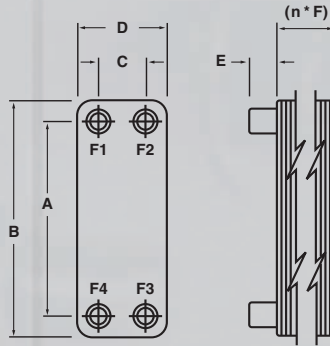
Mounting:
Reduce mounting costs with optional threaded studs or integral mounting bracket.

Connections:
From 1/2 inch to 4 inch. Standard connection options include NPT, SAE Flanged and Sweat. Custom connections available.



Designed for dependability.

By using a brazing process we eliminated the need for gasketed or rolled joints commonly found in traditional exchangers. This allows for higher operating pressures and temperatures with no maintenance and no leaks. The corrugated plates easily handle highly viscous fluids, turbulating them for maximum efficiency. Corrosion-resistant materials ensure a long operating life.



STANDARD CONSTRUCTION

Cover plates	ASTM 316L Stainless Steel
Channel plates	ASTM 316L Stainless Steel
Connections	ASTM 316L Stainless Steel M26 NPT, SAE Flanged and Sweat Connections available
Brazing material	Copper

TECHNICAL DATA STANDARD CONSTRUCTION

Design Pressure	435 psi (30 bar)
Design temperature	450 F (224 C)

CONSTRUCTION CODES

UL, CRN, ASME Code Stamp option.

DIMENSIONS

Model	A		B		C		D		E		F		Connection	Volume		Surface Area		Max no. of plates
	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.		Gal/chnl.	(L/chnl.)	Sq. Ft.	(Sq. M)	
BP400	6.77	172	8.2	208	1.65	42	3.1	79	0.95	24	0.081	2	3/4" MNPT	0.0076	0.029	0.126	0.012	50
BP410	9.84	250	12.2	310	1.97	50	4.4	112	0.95	24	0.094	2	1" MNPT	0.0159	0.060	0.281	0.026	150
BP411	9.84	250	12.2	310	1.97	50	4.4	112	0.95	24	0.094	2	1" MNPT	0.0159	0.060	0.28	0.026	150
BP412	9.84	250	12.2	310	1.97	50	4.4	112	0.95	24	0.094	2	1" MNPT	0.0159	0.060	0.281	0.026	150
BP415	18.35	466	20.7	526	1.97	50	4.4	112	0.95	24	0.094	2	1" MNPT	0.073	0.103	0.566	0.053	150
BP422	20.43	519	24.3	617	3.62	92	7.5	191	1.9	48	0.112	3	2" MNPT	0.0704	0.266	1.062	0.099	150

