



doucette industries, inc.

**Refrigeration Application
Specialists**

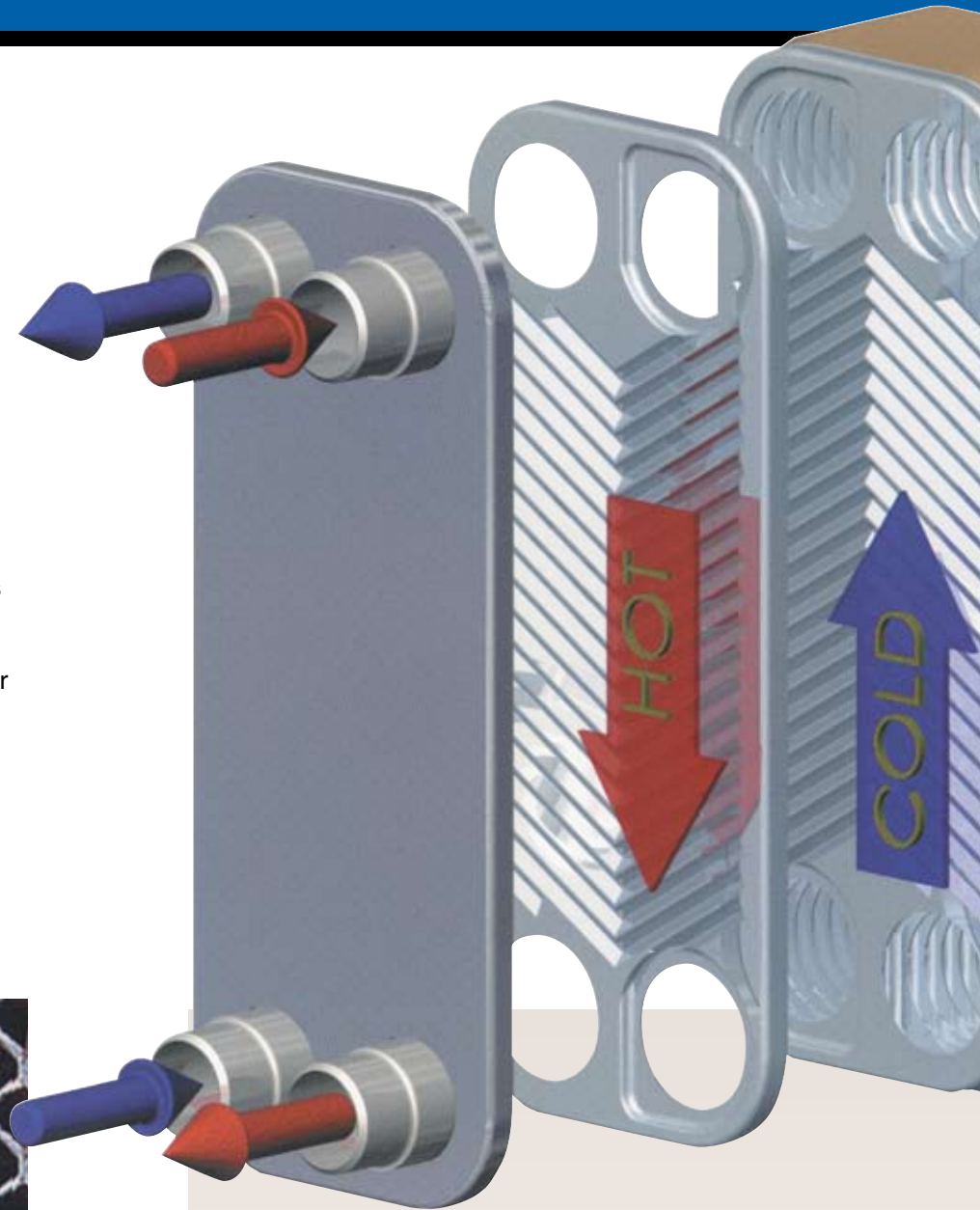
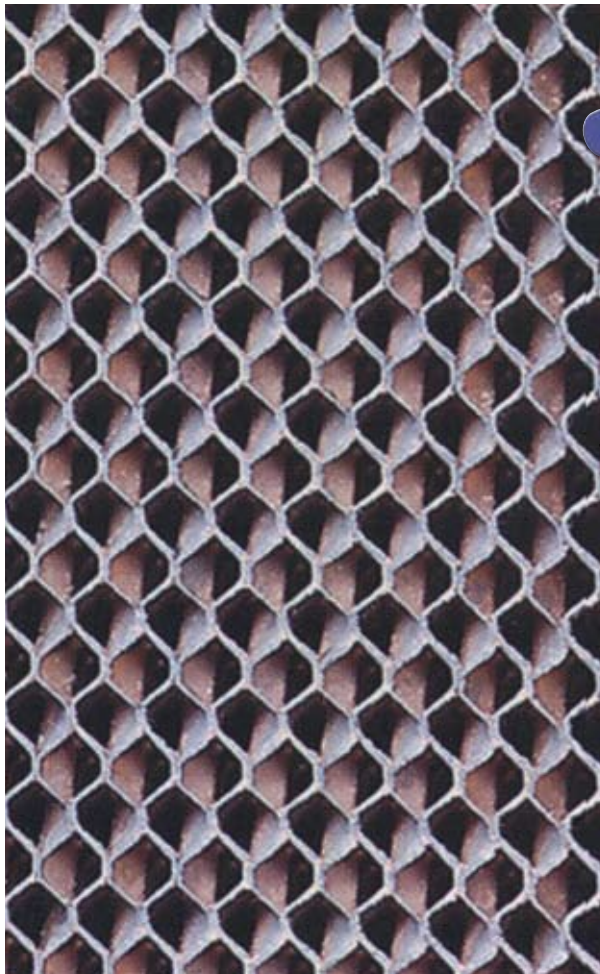


**BPHE Series
Brazed Plate
Heat Exchangers**

**Compact High-Efficiency Heat
Transfer Systems**

Doucette Continues to Transform the Heat Exchanger Industry

Doucette has established itself as a competent resource for heat transfer products, supplying related markets like refrigeration and air conditioning for more than 25 years. Doucette's knowledge of heat transfer products covers a wide range of applications, giving us the ability to advise you on the ideal unit for your particular installation. Brazed plate heat exchangers are no exception when it comes to our experience, and we inventory a complete line of brazed plate systems to fit even the most demanding situations.



Brazed Plate- The New Standard in Heat Transfer

Brazed plate heat exchangers are carving a big chunk out of the heat transfer industry with their compact size and high efficiency design. Brazed plate units are up to six times smaller than alternative methods of heat exchange with the same capacity. The key lies in their unique construction. Up to 150 corrugated stainless steel plates are brazed together with every second plate turned 180 degrees. This design creates two highly turbulent fluid channels that flow in opposite directions over a massive surface area. The result, a significantly higher heat transfer coefficient with less required surface area and outstanding performance characteristics.

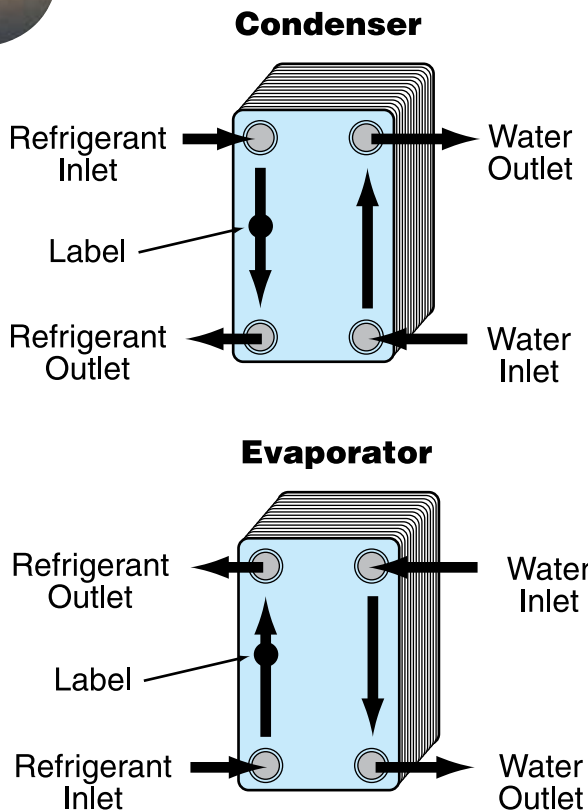
Compact, Durable and Low-Maintenance

The compact size of Doucette's brazed plate heat exchangers means lower shipping and installation costs, and their lightweight design makes maneuvering much easier. Despite these features, no compromises are made on strength, as the brazing process welds the plates together at thousands of contact points in each unit. The benefits are easily recognized, exceptional durability along with higher operating pressures and temperatures. The 316SS construction of brazed plate heat exchangers also provides superior corrosion resistance, and fouling is virtually eliminated by the self-cleaning effect generated through high induced turbulence.

The Highest Quality for a Lower Investment

Doucette's brazed plate heat exchangers are assembled from a very small number of machine formed parts, resulting in significantly less manufacturing time and reduced costs to the end user. Machine formed parts also mean product quality and performance parameters are easily met. And every Doucette brazed plate heat exchanger must pass careful checks on quality, as well as compliance with specifications and dimension tolerances.

Condenser / Evaporator Piping



Doucette Braze Plate Heat Exchanger Physical Data

Evaporator

dii Model Number	Nominal* TR	FlatPlate Equivalent Model	Width	Height	Depth	Refrig. O.D.F.	Water O.D.F.	Shipping Weight (lbs.)
BP 1/2	1/2	CH 1/2A	3.5	12.8	2	5/8	7/8	4
BP 3/4	3/4	CH 3/4A	3.5	12.8	2.2	5/8	7/8	5
BP 1	1	CH 1A	3.5	12.8	2.6	5/8	7/8	5
BP 1 1/2	1-1/2	CH 1-1/2A	3.5	12.8	3.2	5/8	7/8	6
BP 1 1/2	2	CH 2A	3.5	12.8	3.2	5/8	7/8	6
BP 2	2-1/2	CH 2-1/2A	3.5	12.8	3.6	5/8	7/8	7
BP 3	3	CH 3A	4.9	13.1	3.2	7/8	1-1/8	9
BP 3 1/2	3-1/2	CH 3-1/2A	4.9	13.1	3.6	7/8	1-1/8	10
BP 5	4	CH 4A	4.9	20.8	3.2	7/8	1-3/8	15
BP 6	5	CH 5A	4.9	20.8	3.6	1-3/8	1-3/8	17
BP 7 1/2	6	CH 6	4.9	20.8	4.1	1-3/8	1-3/8	20
BP 8	7-1/2	CH 7-1/2	4.9	20.8	4.5	1-3/8	1-3/8	22
BP 12	10	CH 10B	4.9	20.8	5.4	1-3/8	1-3/8	28
BP 14 E	12-1/2	CH 12B	4.9	20.8	6.9	7/8 x 1-3/8	1-3/8	36
BP 15 E	15	CH 15B	4.9	20.8	7.9	7/8 x 1-3/8	1-3/8	41
BP 25 E	20	CH 20	4.9	20.8	10.7	7/8 x 1-3/8	1-3/8	57
BP 30 E	25	CH 25	10.6	20.8	6	1-3/8 x 2-1/8	2-1/8	78
BP 35 E	30	CH 30	10.6	20.8	6.9	1-3/8 x 2-1/8	2-1/8	91

* Performance: Cool 2.4 GPM/TR water from 54°F to 44°F with R-22 at 35°F evaporating temperature with 6°F superheat.

Condenser

dii Model Number	Nominal† TR	FlatPlate Equivalent Model	Width	Height	Depth	Refrig. O.D.F.	Water O.D.F.	Shipping Weight (lbs.)
BP 1/2	1/2	-----	3.5	12.8	2	5/8	7/8	4
BP 3/4	3/4	-----	3.5	12.8	2.2	5/8	7/8	5
BP 1	1	C 1A	3.5	12.8	2.6	5/8	7/8	5
BP 1 1/2	1-1/2	C 1-1/2A	3.5	12.8	3.2	5/8	7/8	6
BP 2	2	C 2A	3.5	12.8	3.6	5/8	7/8	7
BP 2 1/2	2-1/2	C 2-1/2A	3.5	12.8	4.1	5/8	7/8	8
BP 3 1/2	3	C 3A	4.9	13.1	3.6	7/8	1-1/8	10
BP 3 1/2	3-1/2	C 3-1/2A	4.9	13.1	3.6	7/8	1-1/8	10
BP 5	4	C 4	4.9	20.8	3.2	7/8	1-3/8	15
BP 5	5	C 5	4.9	20.8	3.2	7/8	1-3/8	15
BP 6	6	C 6	4.9	20.8	3.6	1-3/8	1-3/8	17
BP 7 1/2	7-1/2	C 7-1/2	4.9	20.8	4.1	1-3/8	1-3/8	20
BP 10	10	C 10	4.9	20.8	5.1	1-3/8	1-3/8	26
BP 12 1/2	12-1/2	C 12B	4.9	20.8	6	1-3/8	1-3/8	31
BP 15 C	15	C 15B	4.9	20.8	7.9	1-3/8	1-3/8	41
BP 20	20	C 20	4.9	20.8	8.8	1-3/8	1-3/8	47
BP 25 C	25	C 25	4.9	20.8	10.7	1-3/8	1-3/8	57
BP 30	30	C 30	10.6	20.8	6	2-1/8	2-1/8	78

† Performance: Condense R-22 at 105°F using 3 GPM/HP of water at 85°F.



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