



doucette industries, inc.

**Refrigeration Application  
Specialists**

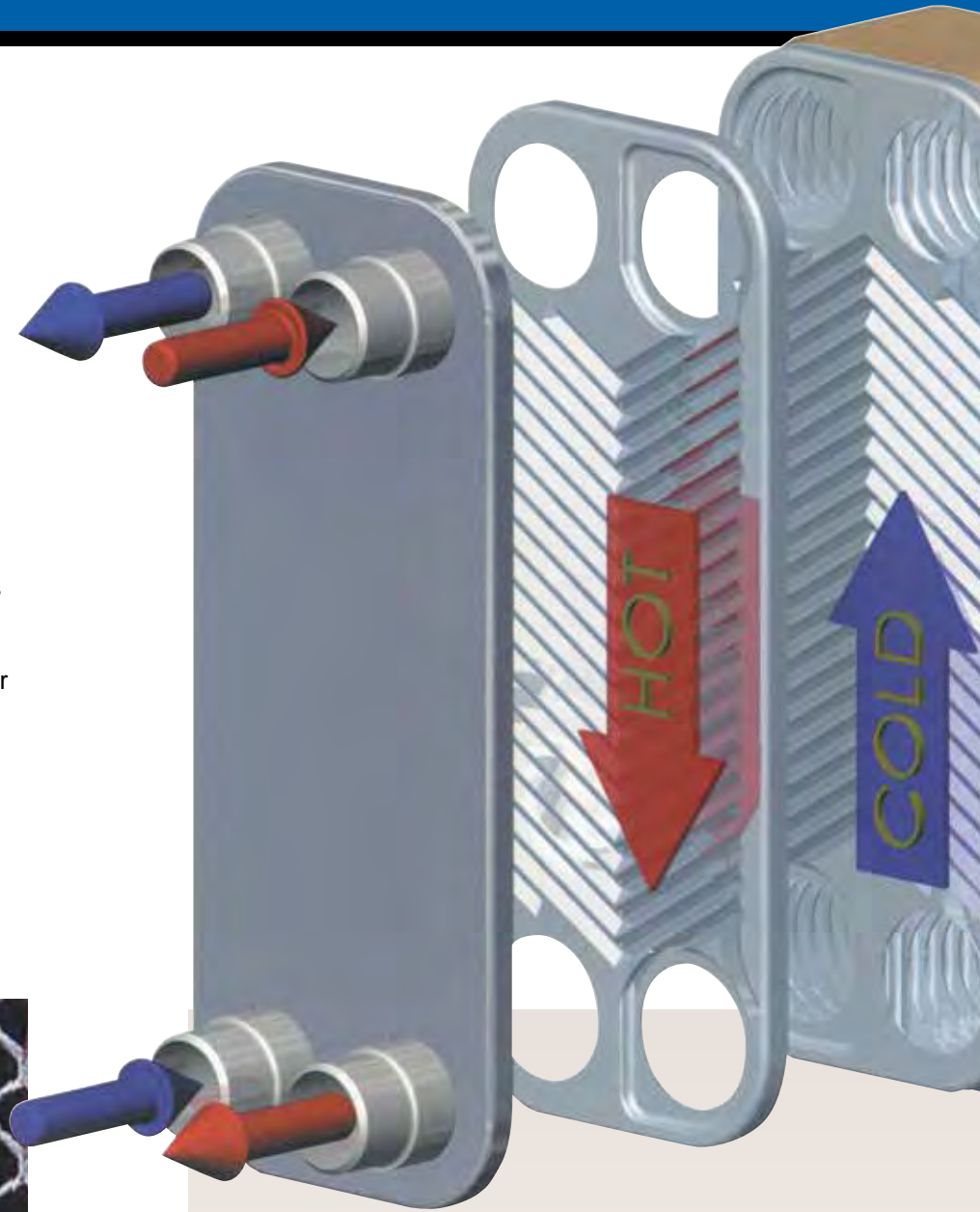
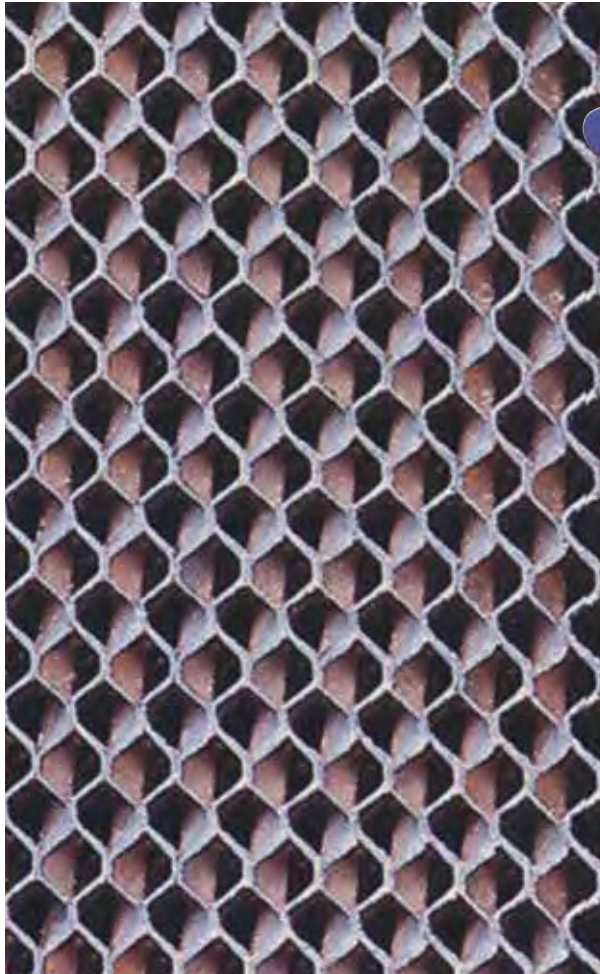


**BPHE Series  
Brazed Plate  
Heat Exchangers**

**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.

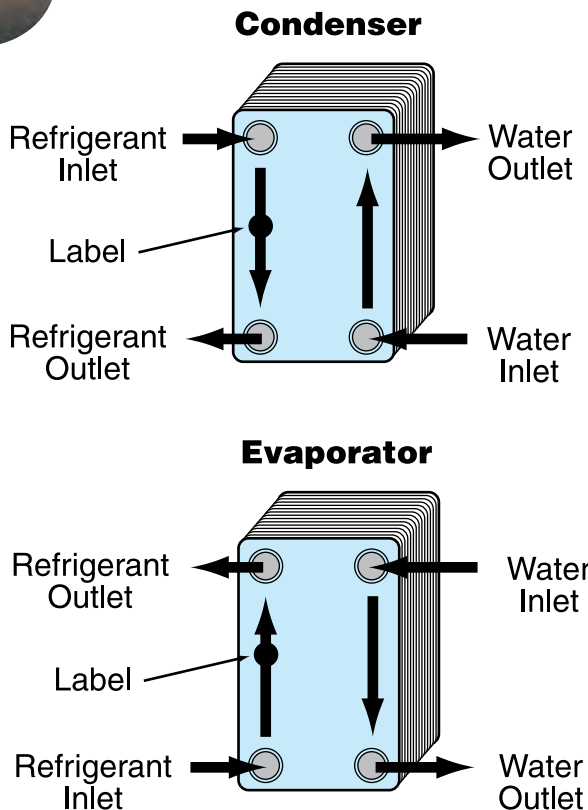
# Compact, Durable and Low-Maintenance

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 Brazed Plate Heat Exchanger Physical Data

## Evaporator

dii Model Number	Nominal* TR	Width Inches	Height Inches	Depth Inches	Refrigerant In/Out - IDS	Water MPT	Shipping Weight (lbs.)
BPH 2	2	3.2	15.7	2.4	7/8x7/8	3/4	7
BPH 4	4	3.2	15.7	3.0	7/8x7/8	3/4	8
BPH 5	5	3.2	15.7	3.6	7/8x7/8	3/4	10
BPH 7.5	7.5	4.4	20.7	4.1	7/8x1-1/8	1	21
BPH 10	10	4.4	20.7	5.1	7/8x1-1/8	1	25
BPH 12E	12	4.4	20.7	6.0	7/8x1-3/8	1	30
BPH 15E	15	4.4	20.7	7.8	7/8x1-3/8	1	39
BPH 20E	20	7.5	24.5	7.9	1-3/8x2-1/8	2	65
BPH 25E	25	7.5	24.5	9.3	1-3/8x2-1/8	2	77
BPH 30E	30	7.5	24.5	10.7	1-3/8x2-1/8	2	89
BPH 35E	35	7.5	24.5	12.1	1-3/8x2-1/8	2	101
BPH 40E	40	7.5	24.5	13.9	1-3/8x2-1/8	2	117
BPH 50E	50	7.5	24.5	16.2	1-3/8x2-1/8	2	137

E models include internal distributor

Performance: 12,000 Btuh/TR, 54/44F water, 2.4 GPM/TR, <10 psi water pressure drop  
R-410A @ 35F ET with 6F superheat

Construction: 316L SS plates, copper braze

Design: 650 psig DWP, -310F to 450F

Application: 16-20 mesh strainer in water inlet line, low pressure cutout required

## Condenser

dii Model Number	Nominal† HP	Width Inches	Height Inches	Depth Inches	Refrigerant In/Out - IDS	Water MPT	Shipping Weight (lbs.)
BPH 2	2	3.2	15.7	2.4	7/8x7/8	3/4	7
BPH 4	4	3.2	15.7	3.0	7/8x7/8	3/4	8
BPH 5	5	3.2	15.7	3.6	7/8x7/8	3/4	10
BPH 7.5	7.5	4.4	20.7	4.1	1-1/8x7/8	1	21
BPH 10	10	4.4	20.7	5.1	1-1/8x7/8	1	25
BPH 12	12	4.4	20.7	6.0	1-3/8x7/8	1	30
BPH 15	15	4.4	20.7	7.8	1-3/8x7/8	1	39
BPH 20	20	7.5	24.5	7.9	2-1/8x1-3/8	2	65
BPH 25	25	7.5	24.5	9.3	2-1/8x1-3/8	2	77
BPH 30	30	7.5	24.5	10.7	2-1/8x1-3/8	2	89
BPH 35	35	7.5	24.5	12.1	2-1/8x1-3/8	2	101
BPH 40	40	7.5	24.5	13.9	2-1/8x1-3/8	2	117
BPH 50	50	7.5	24.5	16.2	2-1/8x1-3/8	2	137

Performance: 15,000 Btuh/HP, 85/95F water, 3.0 GPM/TR, <10 psi water pressure drop  
R-410A condensing at 105F CT with 5F liquid subcooling

Construction: 316L SS plates, copper braze

Design: 650 psig DWP, -310F to 450F

Application: 16-20 mesh strainer in water inlet line



**www.doucetteindustries.com email: johnL@doucetteindustries.com**

20 Leigh Drive York, Pennsylvania 17406-8474

**Toll Free: (800) 445-7511**

Phone: (717) 845-8746

Fax: (717) 845-2864