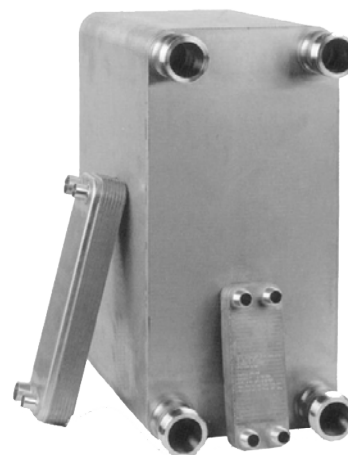


Item # BPH 50E, Brazen Plate Heat Exchangers (2 to 50 TR)

Compact High-Efficiency Heat Transfer Systems

Doucette Continues to Transform the Heat Exchanger Industry



Call dii

The compact size, low refrigerant charge, and superior heat transfer characteristics of Doucette's Brazen Plate Heat Exchangers make them ideal for evaporator, condenser and sub-cooler applications. Available for virtually any duty, the Brazen Plate Heat Exchangers are available with copper or nickel brazing materials. Standard units have 316 Stainless Steel plates with copper brazing and sweat connections. U.L. listed for 650 psig DWP. Evaporator models above a certain number of plates include internal refrigerant distribution features, assuring proper distribution of refrigerant gas for maximum efficiency and proper superheat.

Specifications

TR	50
Refrig. In	1-3/8 "
Refrig. Out	2-1/8 "
Water Conn.	2"
Width	7.5 "
Height	24.5 "
Depth	16.2 "
DWP	650 psig
Weight	137 lbs
Installation Recommendation	To prevent premature clogging from open water loops install a 16-20 mesh strainer in the inlet water line to the heat exchanger. System controls should include a calibrated low pressure cutout or Evaporator Pressure Regulator properly set to prevent freeze-up.



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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.



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Technical drawing of a mechanical part showing three views: Left Side Conn View, Top View, and Right Side Conn View.

Left Side Conn View: Shows the side profile of the part. Dimensions include a total width of 16.20 and a mounting hole offset of 1.90 TYP.

Top View: Shows the top surface of the part. Dimensions include a total width of 16.20, a mounting hole offset of 1.90 TYP, a total length of 24.49 (REF), a mounting hole offset of 4.25 TYP, a mounting hole diameter of 0.5 RAD TYP, and a mounting hole offset of 2.75 TYP. The mounting holes are labeled F1, F2, F3, and F4.


Right Side Conn View: Shows the side profile of the part. Dimensions include a total width of 16.20 and a mounting hole offset of 1.90 TYP.

Notes:

- (4) 0.5 DIA MTG HOLES (TOP PLATE)

NOTE:
1. DIMENSIONS SHOWN IN INCHES (in).

PORT / LOCATION		CONNECTION TYPE	UNIT RATINGS		UNIT CONSTRUCTION
F1	SIDE-1	2-1/8" SWEAT, 316L SS	DSGN PRES.	650 PSI	
F4	SIDE-2	* 1-3/8" SWEAT, 316L SS	TEST PRES.	780 PSI	PLATE MTL: 316L SS
F2	SIDE-2	2" MPT, 316L SS	MAX TEMP.	450 °F	BRAZE MTL: COPPER
F3	SIDE-2	2" MPT, 316L SS	MIN TEMP.	-310 °F	
			* DISTRIBUTOR TYPE: E		
					EST SHIP WT: 137 LBS



doucette
industries inc

MADE MH 05/10/16 CHECK MH 05/10/16

TITLE Model BPH 50E

DRAWING NUMBER 5-695-22-120-005

REV.

