

# T PLATE B ST

Process industries heat exchangers



## Tempco T PLATE B ST Inox / Inox

T PLATE B ST Heat exchangers are ideal for many different applications on industrial processes. The gasket-free solution makes it possible to use these innovative heat exchangers in many processes applications. You can use it on organic solvent/solvent interchanger, where the medium chemical features are too aggressive for gasket components. It can be also used as heater or cooler when temperature is too high or too low for gaskets, as gas/gas heat exchanger or more as gas heater, gas cooler, reboiler or condenser. No copper filler gives you guarantee on chemical resistance when you have amine contamination or similar fluids.

### Applications fields

- steam application
- water preheating
- thermal oil cooler/heater
- biodiesel cooler/heater
- vent condenser on reactor or chemical machinery
- hydraulic/lube oil cooler/heater
- solvent heat recovery
- cryogenic nitrogen cooler

### Technical features

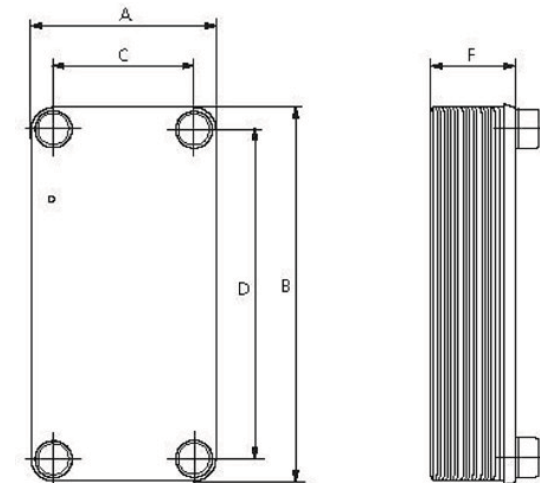
- pressure design: full vacuum up to 30 barg (check models)
- temperature design: -195°C up to 200°C
- nozzles diameter: 1/2" up to 2 1/2"



## |BPHE Dimensions

Tempco Model	B (mm)	D (mm)	A (mm)	C (mm)	Weight (kg)	H1 Thickness (mm)	Heat Transfer Area (m <sup>2</sup> /plate)	Total Heat Transfer Area (m <sup>2</sup> )	Volume (liter/channel)	Total Volume (liter)
100	205	172	73	42	$0.81+0.04 \times (N-1)$	$8+2.27 \times (N-1)$	0.0120	$(N-2) \times 0.0120$	0.025	$(N-1) \times 0.025$
300	194	154	80	40	$0.8+0.05N$	$10+2.25N$	0.0117	$(N-2) \times 0.0117$	0.025	$(N-1) \times 0.025$
500	311	278	73	40	$0.84+0.07N$	$10+2.3N$	0.01946	$(N-2) \times 0.01946$	0.040	$(N-1) \times 0.040$
800	306	250	106	50	$1.5+0.135N$	$10+2.4N$	0.0255	$(N-2) \times 0.0255$	0.055	$(N-1) \times 0.055$
900	304	250	124	70	$1.6+0.15N$	$10+2.4N$	0.0300	$(N-2) \times 0.0300$	0.065	$(N-1) \times 0.065$
1500	522	466	106	50	$3.1+0.22N$	$10+2.4N$	0.0475	$(N-2) \times 0.0475$	0.095	$(N-1) \times 0.095$
1700	504	444	124	64	$3.5+0.24N$	$10+2.4N$	0.0533	$(N-2) \times 0.0533$	0.107	$(N-1) \times 0.107$
2100	613	519	186	92	$7.12+0.41N$	$14+2.4N$	0.09446	$(N-2) \times 0.09446$	0.206	$(N-1) \times 0.206$
2500	528	456	246	174	$7.2+0.52N$	$11.5+2.4N$	0.1099	$(N-2) \times 0.10993$	0.232	$(N-1) \times 0.232$
2700	527	430	245	148	$8.5+0.49N$	$11.5+2.85N$	0.1036	$(N-2) \times 0.1036$	0.289	$(N-1) \times 0.289$
2600	529	449	247	167	$7.2+0.52N$	$13+2.4N$	0.1103	$(N-2) \times 0.1103$	0.220	$(N-1) \times 0.220$

M, N = number of plates



Brazing material	Nickel	Nickel+
Max. Test pressure (bar)	15	43
Max. Operation pressure (bar)	10	30
Operation Temp	- 195 ~ 200°C	

Material of plates	100	300	500	800	900	1500	1700	2500	2700	2600
SUS316 (Standard)	•	•	•	•	•	•	•	•	•	•
SUS304 (Optional)	•	•	•							
SMO254 (Optional)				•		•				