



Scheda tecnica / Technical sheet

T PLATE B

Scambiatori a piastre saldobrasati
Braze plate heat exchangers



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Scambiatori a piastre saldobrasati Braze plate heat exchangers

Range di temperatura / Temperature range
-200 +300°C

Le performance e l'affidabilità dello scambiatore di raffreddamento sono strategiche per il corretto funzionamento dei vostri macchinari, questa è la garanzia che danno gli scambiatori a piastre saldobrasate TEMPACO, espressamente progettati per le massime performance di scambio termico:

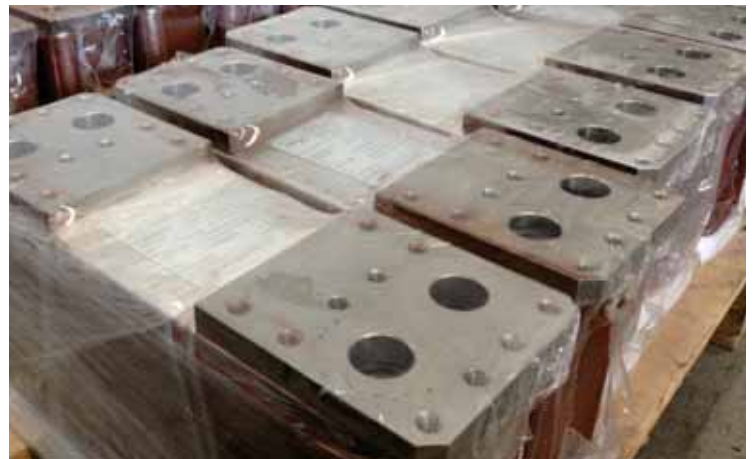
- Esenti da manutenzione in quanto senza guarnizioni
- Semplicità di installazione con ampia gamma di connessioni disponibili, SAE, filettate femmina, filettate maschio
- Possibilità di montaggio con prigionieri o piedi di supporto
- Resistenza ad alte pressione e temperatura, -200+300°C, f.v. +50 bar
- Design compatto e leggerezza
- Certificazioni, CE-PED, ASME U UM stamp, CSA, GOST R, KIWA, Lloyd's Register, UDT, SVGW, CSI



It is vital that the performance and reliability of a hydraulic oil cooler contribute to maximising the operating time of your equipment.

Braze plate heat exchanger TEMPACO are specifically designed for maximum heat transfer performance:

- Practically maintenance-free, due to lack of gaskets
- Simple assembly with individual connector design, SAE, Male/Female thread
- Highest operational reliability thanks to comprehensive quality assurance testing
- High resistance to pressure and temperature, -200+300°C, f.v. +50 bar
- Compact design combined with low weight
- Certifications, CE-PED, ASME U UM stamp, CSA, GOST R, KIWA, Lloyd's Register, UDT, SVGW, CSI



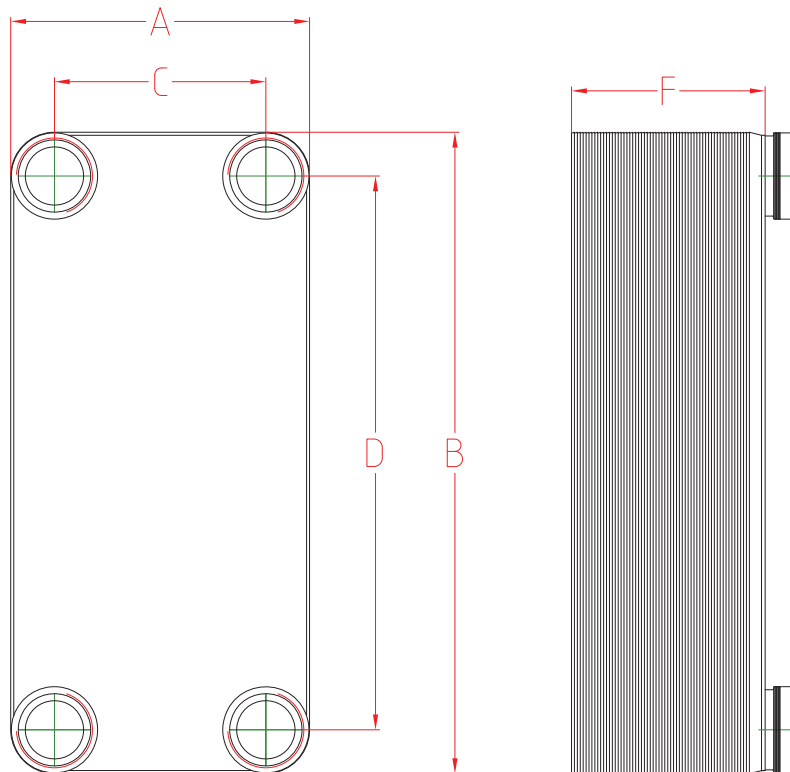
BPHE Dimensions

Tempco Model	B (mm)	D (mm)	A (mm)	C (mm)	Weight (kg)	H1 Thickness (mm)	Heat Transfer Area (m ² /plate)	Total Heat Transfer Area	Volume (liter/channel)	Total Volume (liter)
100	205	172	73	42	0.81+0.04x(N-1)	8+2.27x(N-1)	0.0120	(N-2)x0.0120	0.025	(N-1)x0.025
300	194	154	80	40	0.8+0.05N	10+2.25N	0.0117	(N-2)x0.0117	0.025	(N-1)x0.025
500	311	278	73	40	0.84+0.07N	10+2.3N	0.01946	(N-2)x0.01946	0.040	(N-1)x0.040
800	306	250	106	50	1.5+0.135N	10+2.4N	0.0255	(N-2)x0.0255	0.055	(N-1)x0.055
900	304	250	124	70	1.6+0.15N	10+2.4N	0.0300	(N-2)x0.0300	0.065	(N-1)x0.065
1500	522	466	106	50	3.1+0.22N	10+2.4N	0.0475	(N-2)x0.0475	0.095	(N-1)x0.095
1700	504	444	124	64	3.5+0.24N	10+2.4N	0.0533	(N-2)x0.0533	0.107	(N-1)x0.107
2100	613	519	186	92	7.12+0.41N	14+2.4N	0.09446	(N-2)x0.09446	0.206	(N-1)x0.206
2500	528	456	246	174	7.2+0.52N	11.5+2.4N	0.1099	(N-2)x0.10993	0.232	(N-1)x0.232
2700	527	430	245	148	8.5+0.49N	11.5+2.85N	0.1036	(N-2)x0.1036	0.289	(N-1)x0.289
2600	529	449	247	167	7.2+0.52N	13+2.4N	0.1103	(N-2)x0.1103	0.220	(N-1)x0.220

M, N = number of plates

Brazing material	Cu	Cu+	Nickel	Nickel+
Max. Test pressure (bar)	43	65	15	43
Max. Operation pressure	30	45	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)				•		•				



Standard Connections

Tempco Model	Male/Female Thread Connections								Solder Connections											Height (mm)	
	PT/NPT/GB								Ø6.6 mm	Ø9.73 mm	Ø12.9 mm	Ø16.1 5	Ø19.2 5	Ø22.36 mm	Ø25.6 mm	Ø28.8 mm	Ø35.2 5	Ø41.5 mm	Ø54.3 mm		
	1/2"	3/4"	1"	1 1/4"	1"	2"	2 1/2"	3"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 3/8"	1 5/8"	2 1/8"		
TCB 100	⊙								△	△	△	△	△								20
TCB 300	⊙	⊙							△	△	△	△	△	△							20
TCB 500-501-502	⊙	⊙							△	△	△	△	△								20
TCB 800 - 801	⊙	⊙	⊙						△	△	△	△	△	△	△	△					27
TCB1 300	⊙	⊙							△	△	△	△	△								27
TCB 900	⊙	⊙	⊙	●	●				△	△	△	△	△	△	△	△	△	△			27
TCB 1500-1506-1507	⊙	⊙	⊙						△	△	△	△	△	△	△	△	△	△			27
TCB 1700	⊙	⊙	⊙	⊙	●				△	△	△	△	△	△	△	△	△	△			27
TCB 2100-2101-2102	○		⊙	⊙	⊙	●	●				△	△	△	△		△	△	△	△		27/54
TCB 2500	○		⊙	⊙	⊙	●					△	△	△	△		△	△	△	△		27/54
TCB 2700	○				⊙	⊙	⊙	●						△		△	△	△			27/54
TCB 2600	○		○	○	⊙	⊙	⊙				△	△	△	△		△	△	△	△		27/54
TCB 3100-3101-3115-3116	○				⊙	⊙	⊙	●			△	△	△	△		△	△	△	△		27/54

Available : ⊙Male/Female Thread ○Female Thread ● Male Thread △ Solder

Tempco Model	Flange/Thread Connections						Solder Connections					Height (mm)
	⊙Male/Female Thread ○Female Thread						Solder					
	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	2 1/8"	2 3/8"	3 1/8"	3 3/8"	4"	
TCB 4100-4101		⊙	⊙	⊙	⊙	⊙						54/81

La disponibilità delle connessioni è soggetta al tipo di modello effettivo e alle condizioni di lavoro.

I vari design di connessioni soddisfano diverse specifiche.

I tipi di connessione includono: tipo saldato per tubo in rame, filettati femmina / maschio, design idraulico, design brasato al nickel, controllo della temperatura, lato opposto

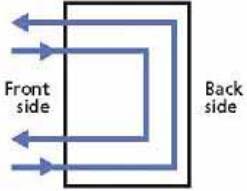
* Tempco può personalizzare le connessioni in base a richieste specifiche. Vi preghiamo di contattarci per ulteriori informazioni.

The availability of the connectors are subject to the actual model type and working conditions.

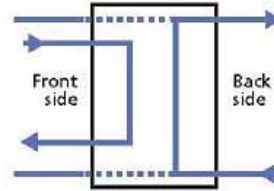
Various connection designs fulfill different specifications.

Connection types include: soldered type for copper tube, female/male thread, hydraulic design, nickel brazed design, temperature control, opposite side

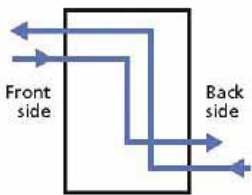
* Tempco can customize connections according to specific demands. Please contact us for more informations.



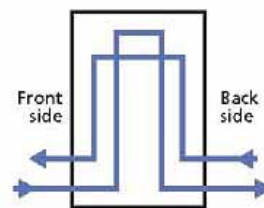
Standard design model
All standard applications
Flow control – Standard



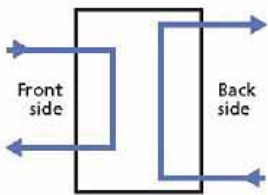
Double-U Plus F3/F4 design
Preferred variant for heat pumps with sensor connections
Flow control – Double-U



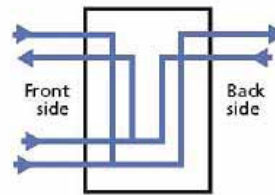
Z circuit design
Rearside connectors for easier installation
Flow control – Z circuit



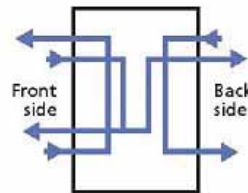
Multi-Pass design
Applications requiring higher thermal lengths
Flow control – Multi-path



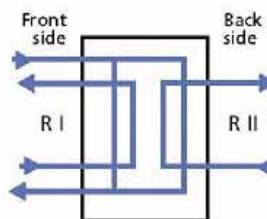
Double-U design
Rearside connectors for easier installation
Flow control – Double-U



Two-Stage design
Variant for two-stage heating of hot service water
Flow control – Two-stage service water heater



Combination plate heat exchanger
Variant for combined heating and service water heating
Flow control – combined heating and service water heating



Two-circuit plate heat exchanger
Variant for connecting two refrigerating circuits to improve partial load behaviour
Flow control – Twin-circuit Refrigeration evaporator type I