

SCHEMA TECNICA / TECHNICAL SHEET

T PLATE B

Scambiatori a piastre saldobrasati
Brazed plate heat exchangers



Tutte le macchine sono conformi alle normative europee con marchio CE

All the machines are EEC directive compliant

RANGE DI TEMPERATURA -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 TEMPCO, espressamente progettati per le massime performance di scambio termico:

- Essenti 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

TEMPERATURE RANGE -200 +300°C

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

Brazed plate heat exchanger TEMPCO 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*



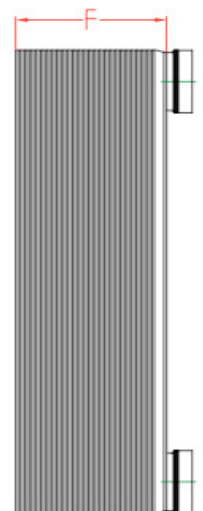
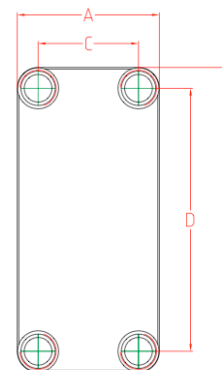
BPHE DIMENSIONS

TEMPCO MODEL	B	D	A	C	WEIGHT	H1	HEAT TRANSFER	TOTAL HEAT	VOLUME	TOTAL VOLUME
	(mm)	(mm)	(mm)	(mm)	(kg)	Thickness (mm)	Area (m ²)/plate	Transfer Area	(liter/channel)	(liter)
100	205	172	73	2	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	⊙								Δ	Δ	Δ	Δ	Δ								20	
TCB 300	⊙	⊙							Δ	Δ	Δ	Δ	Δ	Δ								20
TCB 500-501-502	⊙	⊙							Δ	Δ	Δ	Δ	Δ									20
TCB 800 - 801	⊙	⊙	⊙						Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ						27
TCB1 300	⊙	⊙							Δ	Δ	Δ	Δ	Δ									27
TCB 900	⊙	⊙	⊙	●	●				Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ				27
TCB 1500-1506-1507	⊙	⊙	⊙						Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ				27
TCB 1700	⊙	⊙	⊙	⊙	●				Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ				27
TCB 2100-2101-2102	○		⊙	⊙	⊙	●				Δ	Δ	Δ	Δ			Δ	Δ	Δ	Δ			27/54
TCB 2500	○		⊙	⊙	⊙	●				Δ	Δ	Δ	Δ			Δ	Δ	Δ	Δ			27/54
TCB 2700	○				⊙	⊙	⊙	●						Δ		Δ	Δ	Δ				27/54
TCB 2600	○		○	○	⊙	⊙	⊙			Δ	Δ	Δ	Δ			Δ	Δ	Δ	Δ			27/54
TCB 3100-3101-3115-3116	○				⊙	⊙	⊙	●		Δ	Δ	Δ	Δ			Δ	Δ	Δ	Δ			27/54

Available: ⊙ Male/Female Thread || ○ Female Thread || ● Male Thread || Δ 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:

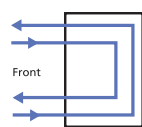
soldered type for copper tube, female/male thread, hydraulic design, nickel brazed design, temperature control, opposite side

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

Settori applicativi / Application fields

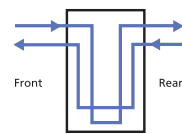


TPLATE B circuit



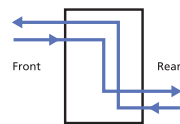
Standard

All standard applications
Flow control _ one-way



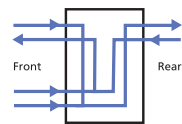
U-type

Multi-pass applications with
higher thermal length
Flow control - two-way



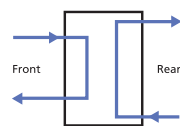
Z circuit

Rearside connections for
easier installation
Flow control _ one-way



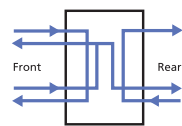
DS design

Variant for two-stage service water
heating with preheater and
afterheater in a single unit
Flow control _ two-way



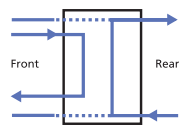
X circuit

Reciprocal connections
Rearside connections for
easier installation
Flow control - one-way



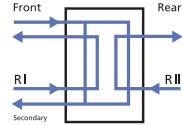
COMBI design

Combination plate heat exchanger
Variant for combined heating and
service water heating in a single unit
3-media heat exchanger



Reciprocal connection with additional sensor connections

Preferred variant for heat
pumps with sensor connections
Flow control _ one-way



DUAL design two-circuit plate heat exchanger

Variant for connecting two
refrigerating circuits in
back-to-back arrangement
3-media heat exchanger