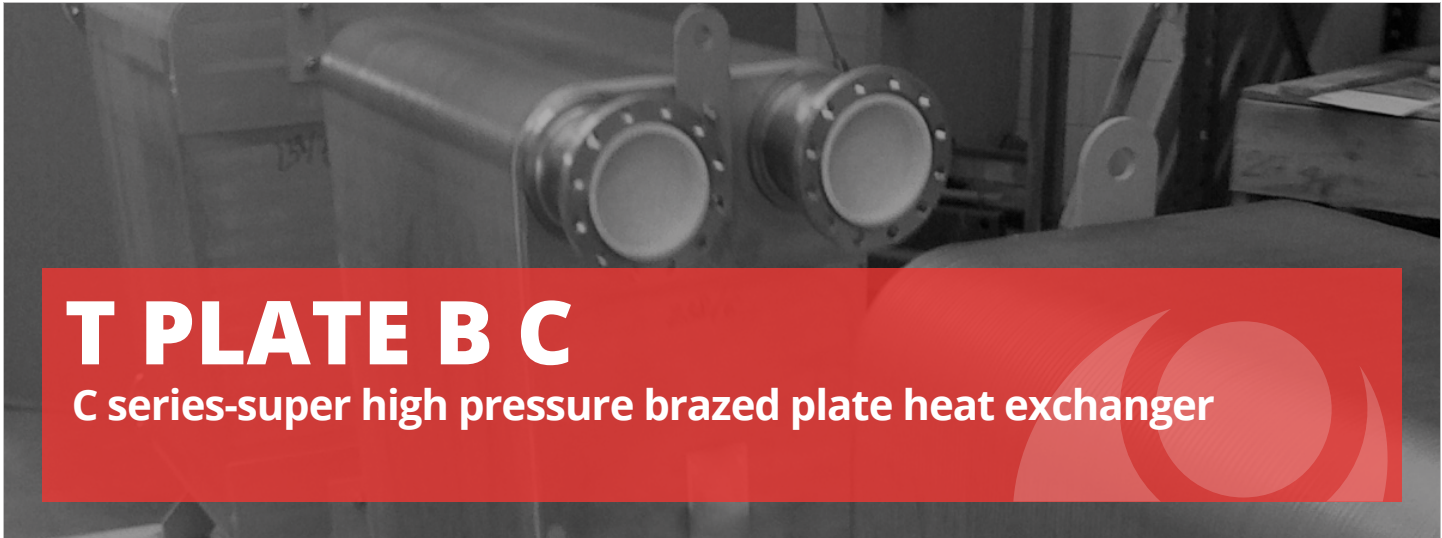




Scheda tecnica / Technical sheet

T PLATE B C

C series-super high pressure brazed plate heat exchanger



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C series-super high pressure brazed plate heat exchanger

C series is specially designed for Gas cooler, condenser, evaporator and economizer in R744 (CO2) heat pump and refrigeration system.



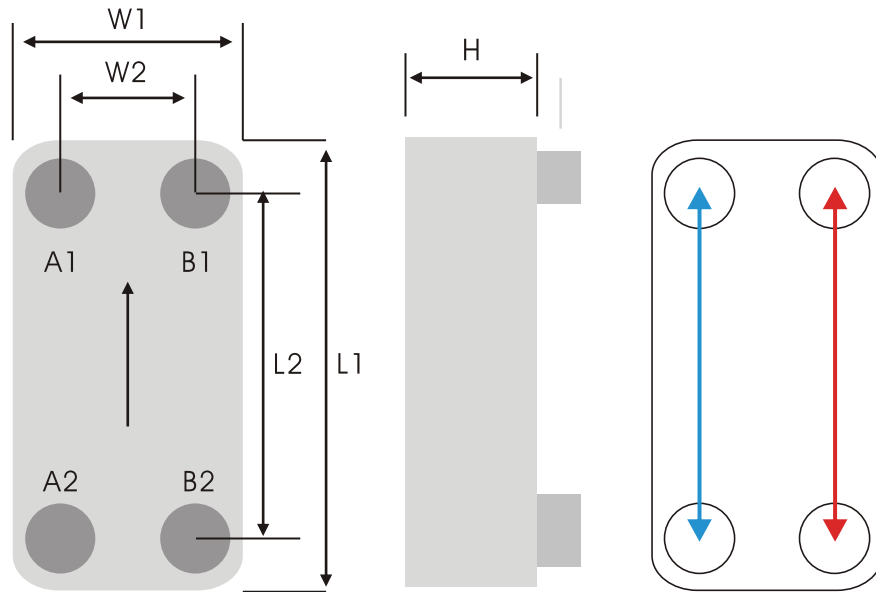
Different designs with max. working pressure 140 bar, 100 bar and 70 bar are available for Supercritical, Transcritical and Subcritical CO2 heating and cooling systems.

Compact size, outstanding heat transfer performance and low pressure drop are the three key features. The quality and the durability of C series is proven by thorough inspection, achieving the burst test pressure up to 650 bar and cycle test over 100,000 cycles.

Brazing Material	Copper		
Model	TCBC020	TCBC021	TCBC022
	TCBC500	TCBC501	TCBC502
	TCBC1500	TCBC1501	TCBC1502
	TCBC2100	TCBC2101	TCBC2102
	(A1,A2/B1,B2)		
Max. Working Pressure (bar)	70/30*	100/30*	140/30*
Min. Test Pressure (bar)	100/43*	143/43*	200/43*
Max. Working Temperature (°C)	150		



※For higher working pressure request on B1/B2, please contact TEMPCO representative.



Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H Thickness (mm)	Weight *(kg) (Without Connection)	Heat Transfer Area/ plate (m ²)	Total Heat Transfer Area (m ²)	Volume/ Channel (liter)	Total Volume (liter)
TCBC020	191	154	77	40	9.5+1.10*N	1.12+0.042*N	0.01109	(N-2)*0.01109	0.009	(N-1)*0.009
TCBC500	314	275	76	40	13.0+2.00*N	1.74+0.145*N	0.0193	(N-2)*0.0193	0.030	(N-1)*0.030
TCBC1500	524	466	108	50	13.2+2.16*N	5.52+0.320*N	0.0475	(N-2)*0.0475	0.071	(N-1)*0.071
TCBC2100	616	519	189	92	14.0+2.15*N	12.39+0.603*N	0.0950	(N-2)*0.0950	0.156	(N-1)*0.156
TCBC021	191	154	77	40	9.5+1.10*N	1.14+0.042*N	0.01109	(N-2)*0.01109	0.009	(N-1)*0.009
TCBC501	314	275	76	40	13.0+2.00*N	1.83+0.145*N	0.0193	(N-2)*0.0193	0.030	(N-1)*0.030
TCBC1501	524	466	108	50	13.2+2.16*N	5.68+0.320*N	0.0475	(N-2)*0.0475	0.071	(N-1)*0.071
TCBC2101	616	519	189	92	14.0+2.15*N	12.56+0.631*N	0.0950	(N-2)*0.0950	0.156	(N-1)*0.156
TCBC022	191	154	77	40	9.5+1.10*N	1.126+0.042*N	0.01109	(N-2)*0.01109	0.009	(N-1)*0.009
TCBC502	314	275	76	40	13.0+2.00*N	1.75+0.152*N	0.0193	(N-2)*0.0193	0.030	(N-1)*0.030
TCBC1502	524	466	108	50	13.2+2.16*N	5.90+0.346*N	0.0475	(N-2)*0.0475	0.071	(N-1)*0.071
TCBC2102	616	519	189	92	14.0+2.15*N	12.41+0.755*N	0.0950	(N-2)*0.0950	0.156	(N-1)*0.156

N: number of plates