

Technical specification

Brazed Plate Heat Exchanger



Project ref. Smilšu iela 103. SM1,2
Model CB60-30L
No. of units 1
Item number 3287101487

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Date 2025-03-31

Process data

	Hot Side S1 -> S2	Cold Side S3 -> S4
Capacity	78,5 kW	
Fluid	Water	Water
Duty type	Liquid cooling	Liquid heating
Volume flow rate	2,34 m ³ /h	3,44 m ³ /h
Inlet temperature	95,0 °C	60,0 °C
Outlet temperature	65,0 °C	80,0 °C
Tot. pr. drop calc. (allowed)	3,0 (20,00) kPa	8,7 (20,00) kPa
Velocity connections	0,92 m/s	2,33 m/s
Margin calculated (specified)	34 (20) %	

Heat exchanger specification

Heat exchanger specification	
Relative directions of fluids	Countercurrent
Number of plates	30
Channel volume	1,54 dm³1,44 dm³
Design pressure at (-196 °C)	40 bar40 bar
Design pressure at (225 °C)	32 bar32 bar
Design temperature (min./max.)	-196 / 225 °C
Pressure vessel code	PED
Material channel plates/sealing	ALLOY 316 / Cu
Connection S1 (Hot-In)	Threaded (External) ISO 228/1-G 1 1/4" ALLOY 316
Connection S2 (Hot-Out)	Threaded (External) ISO 228/1-G 1 1/4" ALLOY 316
Connection S3 (Cold-In)	Threaded (External) ISO 228/1-G 1" ALLOY 316
Connection S4 (Cold-Out)	Threaded (External) ISO 228/1-G 1" ALLOY 316
Unit dimension (length x width x height)	128 x 113 x 527 mm
Net weight, empty/operating	8,01 / 10,92 kg
Packed length x width x height	160,0 x 125,0 x 579,0 mm
Packed weight	8,17 kg

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Fluid properties	Hot Side	Cold Side
Density (in/out)	962,15 / 979,70 kg/m ³	982,18 / 971,50 kg/m ³
Specific heat capacity	4,19 kJ/(kg·K)	4,18 kJ/(kg·K)
Thermal conductivity	0,668 W/(m·K)	0,661 W/(m·K)
Viscosity (in/out)	0,297 / 0,432 cP	0,4653 / 0,353 cP

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