

28/01/2026

PHE-Type	SP 120B -40D	Hot side	Cold side
Flowrate	(kg/s)	1,37	1,83
Inlet temperature	(°C)	80,00	55,00
Outlet temperature	(°C)	60,00	70,00
Pressure drop	(kPa)	4,36	6,88
Heat exchanged	(kW)	115	

Thermodynamic properties:		Water	Water
Density	(kg/m <sup>3</sup> )	978,06	982,16
Specific heat	(kJ/kg*K)	4,19	4,18
Thermal conductivity	(W/m*K)	0,66	0,65
Mean viscosity	(mPa*s)	0,43	0,48
Wall viscosity	(mPa*s)	0,48	0,43
Fouling factors	(m <sup>2</sup> *K/kW)	0,08	0,08
Dimensioning factor	%	75,04	
Inlet branch		F1	F3
Outlet branch		F4	F2

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Design of Frame / Plates:

Plate arrangement (passes*channel)		1	x	19	+	0	x	0
Plate arrangement (passes*channel)		1	x	20	+	0	x	0
Number of plates		40						
Effective heat surface	(m <sup>2</sup> )	5,59						
Overall K-value Duty/Clean	(W/m <sup>2</sup> *K)	2.853,99	4.995,49					
Plate material		0.4 mm AISI 316						
Gasket material / Max. temp.		COPPER/BRAZED / 185						
Max. design temperature	(°C)	100,00						
Max. Working/test pressure	(MPa)	1,00	1,30					
Max. Differential pressure	(MPa)	1,00						
Approval		None						
Liquid volume	(dm <sup>3</sup> )	12						
Frame length	(mm)	125						
Net weight	(kg)	31						
Frame type		BR						
Connections HOT side :								
Connections COLD side:								

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