

FĂRĂ SCHIMBARE DE FAZĂ - DIMENSIONARE

SWEP SSP G8 2025.130.2.0

SCHIMBĂTOR DE CĂLDURĂ: B86Hx40/1P-SC-M (B86Hx40/1P-SC-M 4x1"&22U)

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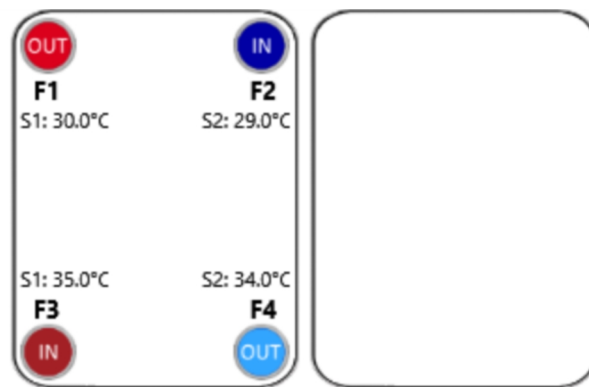
SSP Alias: B86

DATE DE CONEXIUNE

Port	NND	Denumire
F1	27	ISO-G 1" A&SOLDER 22U (20)
F2	27	ISO-G 1" A&SOLDER 22U (20)
F3	27	ISO-G 1" A&SOLDER 22U (20)
F4	27	ISO-G 1" A&SOLDER 22U (20)

LOCUL DE CONECTARE	CIRCUIT 1 (S1)	CIRCUIT 2 (S2)
Intrare	F3	F2
Ieșire	F1	F4

CONFIGURAREA FLURILOR PORTUARE



F - CIRCUIT

P - CIRCUIT

CERINȚE CE TREBUIE ÎNDEPLINITE

		CIRCUIT 1		CIRCUIT 2
Fluid		Apă		Apă
Tipul de flux (de curgere)		Interior	Contra curent	Exterior
Circuit				
Sarcină termică	kW		9.200	
Temperatură de intrare	°C	35.0		29.0
Temperatură de ieșire	°C	30.0		34.0
Debit	kg/s	0.4404		0.4404
Scăderea presiunii (SP de proiectare)	kPa	12.6 (20.00)		11.5 (20.00)
Lungime termică		5.00		5.00

SCHIMBĂTOR DE CĂLDURĂ CU PLĂCI

		CIRCUIT 1		CIRCUIT 2
Aria totală de transfer termic	m²		2.28	
Fluxul de căldură	kW/m²		4.04	
Diferența medie de temperatură	K		1.0	
Overall heat transfer coefficient necesar	W/m², °C		4040	
Pierdere de presiune - totală	kPa	12.9		11.8
- în porturi	kPa	0.383		0.383
- conexiuni de intrare	kPa	0.145		0.145
- conexiuni de ieșire	kPa	0.106		0.106
Diametrul conexiunii (sus/jos)	mm	25.0/25.0		25.0/25.0
Număr de canale per execuție		19		20
Numărul plăcilor			40	
Suprafață în exces	%		8	
Factor de ancrasare	m², °C/kW		0.017	
Numărul Reynolds		541.6		503.9
Viteza în conexiune (sus/jos)	m/s	0.902/0.902		0.901/0.901
Viteza în canale	m/s	0.142		0.135
Stresul la forfecare	Pa	18.9		17.2
In medie temperatura peretelui	°C	32.0		32.0
Cea mai mare diferență de temperatură pe perete	K		0.1	
Min./Max. temperatura peretelui	°C	29.5/34.5		29.5/34.5



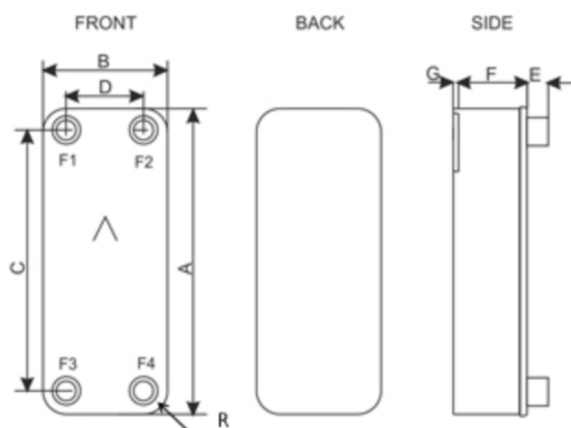
NOTE

- ! Selection at low LMTD affect HTA in a large extent.
- i Consider using Single Phase Low LMTD calculation window for this selection.

PROPIETĂȚI FIZICE		CIRCUIT 1	CIRCUIT 2
Temperatura de referință	°C	32.5	31.5
Vâscozitatea dinamică	cP	0.757	0.773
Densitate	kg/m ³	994.9	995.2
Capacitate termică	kJ/kg, °C	4.178	4.178
Conductivitate termică	W/m, °C	0.6194	0.6178
Coeficient pelicular	W/m ² , °C	9630	9230

TOTALURI		CIRCUIT 1	CIRCUIT 2
Greutate totală gol	kg	7.89	
Greutate totală umplut	kg	10.91	
Volum de așteptare (Interior Circuit)	dm ³	1.48	
Volum de așteptare (Exterior Circuit)	dm ³	1.56	
Dimensiunea portului F1/P1	mm	24	
Dimensiunea portului F2/P2	mm	24	
Dimensiunea portului F3/P3	mm	24	
Dimensiunea portului F4/P4	mm	24	
Material pentru plăci		AISI316 Oțel inoxidabil	
Material alămiți		Cupru	
Presiune max. de funcționare 20°C	bar(g)	53	39
Presiune max. de funcționare 225°C	bar(g)	44	32
Test de presiune	bar(g)	76	56
Min./Max. Temperatura de lucru	°C	-196/225	

DIMENSIUNI



A	mm	526 ±2
B	mm	119 ±1
C	mm	470 ±1
D	mm	63 ±1
E	mm	20 (opt. 45) ±1
F	mm	71.2
G	mm	6 ±1
R	mm	23

*Aceasta este o schiță schematică. Pentru desene corecte vă rugăm să folosiți funcția pentru comanda desenului sau contactați reprezentantul SWEP.

AMPRENTA CARBONICĂ	Unit	Value
Sweden - Landskrona	kg	38.9
USA - Tulsa	kg	40.8
Slovakia - Košice	kg	44.2
Malaysia - Kuala Lumpur	kg	61.6
China - Suzhou	kg	105.7

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