

FĂRĂ SCHIMBARE DE FAZĂ - DIMENSIONARE

SWEP SSP G8 2025.130.2.0

SCHIMBĂTOR DE CĂLDURĂ: B86Hx30/1P-SC-M (B86Hx30/1P-SC-M 4x1"&22U)

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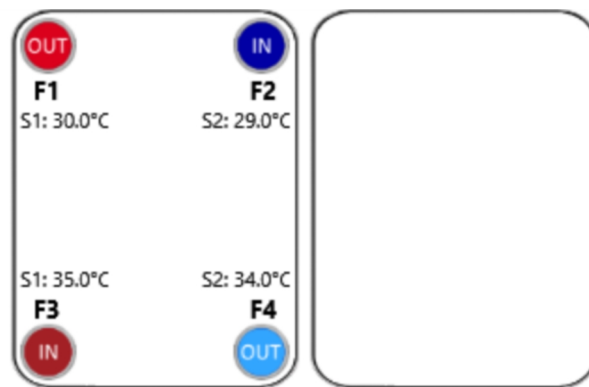
SSP Alias: B86

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		6.500	
Temperatură de intrare	°C	35.0		29.0
Temperatură de ieșire	°C	30.0		34.0
Debit	kg/s	0.3111		0.3111
Scăderea presiunii (SP de proiectare)	kPa	11.5 (20.00)		10.1 (20.00)
Lungime termică		5.00		5.00

SCHIMBĂTOR DE CĂLDURĂ CU PLĂCI

		CIRCUIT 1		CIRCUIT 2
Aria totală de transfer termic	m²		1.68	
Fluxul de căldură	kW/m²		3.87	
Diferența medie de temperatură	K		1.0	
Overall heat transfer coefficient necesar	W/m², °C		3870	
Pierdere de presiune - totală	kPa	11.6		10.2
- în porturi	kPa	0.191		0.191
- conexiuni de intrare	kPa	0.0724		0.0722
- conexiuni de ieșire	kPa	0.0527		0.0528
Diametrul conexiunii (sus/jos)	mm	25.0/25.0		25.0/25.0
Număr de canale per execuție		14		15
Numărul plăcilor			30	
Suprafață în exces	%		8	
Factor de ancrasare	m², °C/kW		0.018	
Numărul Reynolds		519.3		474.7
Viteza în conexiune (sus/jos)	m/s	0.637/0.637		0.637/0.637
Viteza în canale	m/s	0.136		0.127
Stresul la forfecare	Pa	17.5		15.3
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	29.6/34.6		29.5/34.5



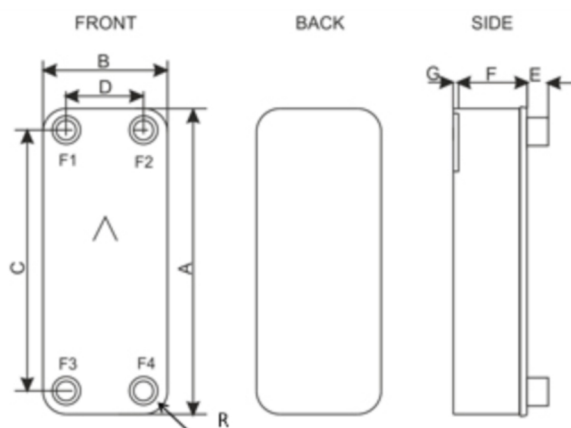
NOTE

- ! 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	9340	8850

TOTALURI		CIRCUIT 1	CIRCUIT 2
Greutate totală gol	kg	6.52	
Greutate totală umplut	kg	8.77	
Volum de așteptare (Interior Circuit)	dm ³	1.09	
Volum de așteptare (Exterior Circuit)	dm ³	1.17	
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	54.4
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	31.9
USA - Tulsa	kg	33.4
Slovakia - Košice	kg	36.2
Malaysia - Kuala Lumpur	kg	50.5
China - Suzhou	kg	86.6

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