

FĂRĂ SCHIMBARE DE FAZĂ - DIMENSIONARE

SWEP SSP G8 2025.130.2.0

SCHIMBĂTOR DE CĂLDURĂ: B86Hx70/1P-SC-M (B86Hx70/1P-SC-M 4x1"&22U)

Data: 15/04/2025

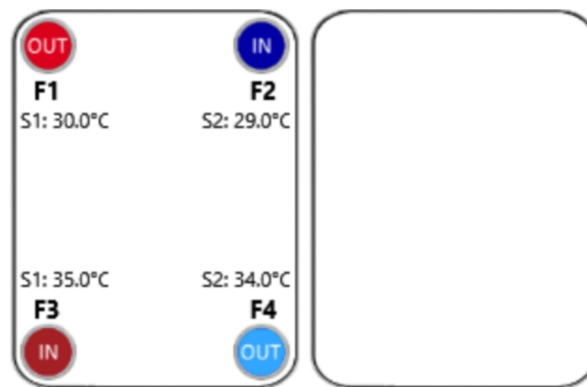
Art. nr.: 0232284.0

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		18.50	
Temperatură de intrare	°C	35.0		29.0
Temperatură de ieșire	°C	30.0		34.0
Debit	kg/s	0.8855		0.8855
Scăderea presiunii (SP de proiectare)	kPa	16.9 (20.00)		16.1 (20.00)
Lungime termică		5.00		5.00

SCHIMBĂTOR DE CĂLDURĂ CU PLĂCI

		CIRCUIT 1		CIRCUIT 2
Aria totală de transfer termic	m ²		4.08	
Fluxul de căldură	kW/m ²		4.53	
Diferența medie de temperatură	K		1.0	
Overall heat transfer coefficient necesar	W/m ² , °C		4530	
Pierdere de presiune - totală	kPa	17.9		17.1
- în porturi	kPa	1.56		1.56
- conexiuni de intrare	kPa	0.586		0.585
- conexiuni de ieșire	kPa	0.427		0.428
Diametrul conexiunii (sus/jos)	mm	25.0/25.0		25.0/25.0
Număr de canale per execuție		34		35
Numărul plăcilor			70	
Suprafață în exces	%		5	
Factor de ancrasare	m ² , °C/kW		0.011	
Numărul Reynolds		608.6		579.1
Viteza în conexiune (sus/jos)	m/s	1.81/1.81		1.81/1.81
Viteza în canale	m/s	0.160		0.155
Stresul la forfecare	Pa	23.7		22.4
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

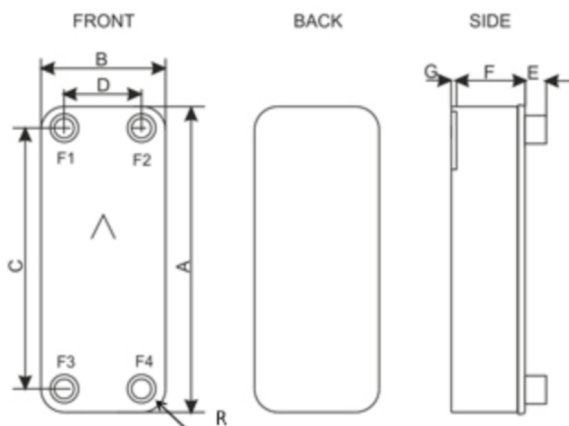
- ! Selection at low LMTD affect HTA in a large extent.
- i Consider using Single Phase Low LMTD calculation window for this selection.

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	10500	10200

TOTALURI

		CIRCUIT 1	CIRCUIT 2
Greutate totală gol	kg		11.99
Greutate totală umplut	kg		17.34
Volum de așteptare (Interior Circuit)	dm ³		2.65
Volum de așteptare (Exterior Circuit)	dm ³		2.73
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	121.6
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	60.0
USA - Tulsa	kg	63.0
Slovakia - Košice	kg	68.3
Malaysia - Kuala Lumpur	kg	95.1
China - Suzhou	kg	163.1

Legal notice:

By using the SSP/DThermX software the Licensee confirms that the input data is not subject to export control laws including ITAR (International Traffic in Arms Regulations). Licensee further agrees and confirms that the configured products are not subject to export control laws including ITAR and do not qualify as "specially designed" for export control purposes. If you would like to discuss configuration of export controlled products including ITAR-qualifying products, or if your data is export controlled, please reach out to your SWEP representative or email info@swep.net.



Disclaimer:

Data used in this calculation is subject to change without notice. SWEP strives to use "best practice" for the calculations leading to the above results. Calculation is intended to show thermal and hydraulic performance, no consideration has been taken to mechanical strength of the product. Product restrictions - such as pressure, temperatures and corrosion resistance- can be found in SWEP product sheets and other technical documentation. SWEP may have patents, trademarks, copyrights or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from SWEP, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property. To the maximum extent permitted by applicable law, the software, the calculations and the results are provided without warranties of any kind, whether express or implied. No advice or information obtained through use of the software (including information provided in the results), will create any warranty not expressly stated in the applicable license terms. Without limiting the foregoing, SWEP does not warrant that the content (including the calculations and the results) is accurate, reliable or correct. SWEP does not warrant that any system comprising heat exchanger and other components, installed on the basis of calculations in this software, will meet your requirements or function to your satisfaction or expectations.



0269938a-6cec-4ee2-99d5-6a190f4f82db

www.swep.net

Data: 15/04/2025

Pagină: 3/3