

**ОДНОФАЗОВЫЙ ТЕПЛООБМЕННИК - Design
ТИП ТЕПЛООБМЕННИКА : B25THx40/1P**

Рабочая среда, сторона 1 : Water
Рабочая среда, сторона 2 : Water

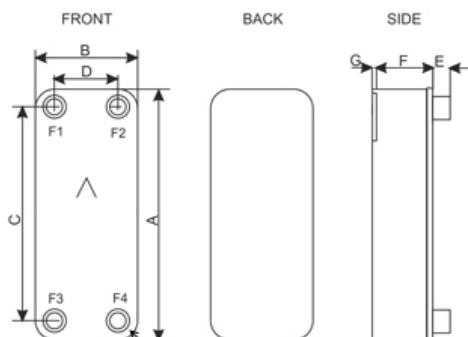
СТОРОНА 1 : внутренняя цепь
СТОРОНА 2 : внешний контур

Flow Type : Counter-Current
SSP Alias : B25T

ИСХОДНЫЕ ДАННЫЕ		СТОРОНА 1	СТОРОНА 2
Передаваемая мощность	kW	114,0	
Температура на входе	°C	80,00	50,00
Температура на выходе	°C	60,00	70,00
Расход	kg/s	1,360	1,362
Потери напора, заданные	kPa	50,0	50,0
Тепловая длина		2,000	2,000
ТЕХНИЧЕСКИЕ ПАРАМЕТРЫ		СТОРОНА 1	СТОРОНА 2
Поверхность нагрева	m ²	2,39	
Тепловой поток	kW/m ²	47,6	
Логарифм средней разности температур K		10,00	
Коэф. теплопередачи (расч./требуемый) W/m ² , °C		8210	
Потеря напора*	kPa	51,3	47,0
- в портах	kPa	4,40	4,39
Диаметр порта	mm	24,0	24,0
Number of channels per pass		19	20
Количество пластин		40	
Поправка на загрязнение	%	72	
Коэффиц. загрязнения	m ² , °C/kW	0,086	
Число Рейнольдса		3133	2582
скорость порта	m/s	3,07	3,06
ФИЗИЧЕСКИЕ СВОЙСТВА		СТОРОНА 1	СТОРОНА 2
Реперная температура	°C	70,00	60,00
Вязкость	cP	0,404	0,467
Вязкость на стенках	cP	0,428	0,437
Плотность	kg/m ³	977,7	983,2
Теплоемкость	kJ/kg, °C	4,192	4,185
Теплопроводность	W/m, °C	0,6631	0,6544
Largest wall temperature difference	K	1,50	
Средняя температура поверхности стенок	°C	55,90	54,40
Maximum wall temperature	°C	75,90	74,40
Коэффициент теплопередачи пленки	W/m ² , °C	20000	18700
Average wall temperature	°C	65,84	64,54
Скорость потока в канале	m/s	0,324	0,306
Напряжение на сдвиг	Pa	98,1	89,2

TOTALS

Total weight empty	kg	8,15 - 11,0
Total weight filled	kg	12,4 - 15,3
Hold-up volume, inner circuit	dm ³	2,11
Hold-up volume, outer circuit	dm ³	2,22
Port size F1/P1	mm	24,0
Port size F2/P2	mm	24,0
Port size F3/P3	mm	24,0
Port size F4/P4	mm	24,0
NND F1/P1	mm	27,0
NND F2/P2	mm	27,0
NND F3/P3	mm	27,0
NND F4/P4	mm	27,0
Carbon footprint	kg	64,9

РАЗМЕРЫ


This is a schematic sketch. For correct drawings please use the order drawing function or contact your SWEP representative.

A	mm	524 to 526 +/-2
B	mm	117 to 119 +/-1
C	mm	479 +/-1
D	mm	72 +/-1
E	mm	20 (opt. 45) +/-1
F	mm	92 to 98 +/-3%
G	mm	4 to 7 +/-1
R	mm	22 to 23

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.

*Excluding pressure drop in connections.



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