



SINGLE PHASE - RATING HEAT EXCHANGER: B28Hx36/1P

SWEP SSP G8 2023.505.1.0

Date: 24/05/2023

SSP Alias: B28

Fluid	DUTY REQUIREMENTS		Side 1		Side 2
Circuit Inner Outer Heat load kW 20.00 Inlet temperature °C 50.00 41.60 Outlet temperature °C 43.67 47.40 Flow rate m³/h 3.000 3.000 Thermal length 2.724 2.496 PLATE HEAT EXCHANGER Side 1 Side 2 Total heat transfer area m² 2.04 Heat flux kWm² 9.8 Mean temperature difference K 2.33 O.H.T.C. (available/required) W/m², °C 4260/4220 Pressure drop- total* kPa 0.467 0.444 - in ports kPa 0.467			Water (35.0 m	nass%)	Water
Heat load KW				unter-Current	Outor
Inlet temperature		14/4/	inner	20.00	Outer
Outlet temperature °C 43.67 47.40 Flow rate m³/h 3.000 3.000 Thermal length 2.724 2.496 PLATE HEAT EXCHANGER Side 1 Side 2 Total heat transfer area m² 2.04 Heat flux kW/m² 9.8 Mean temperature difference K 2.33 O.H.T.C. (available/required) W/m²° °C 4260/4220 Pressure drop - total* kPa 17.5 4260/4220 Pressure drop - total* kPa 0.467 0.444 - in ports kPa 0.467 0.444 Port diameter (up/down) mm 33.0/33.0 33.0/33.0 Number of plates 7 36 1 Oversurfacing % 1 0.002 Reynolds number port olight (up/down) m/s 0.973/0.973 0.973/0.973 Channel velocity m/s 0.217 0.205 Shear stress Pa 36.3 27.0 Average wall temperature <td< td=""><td></td><td></td><td>50.00</td><td>20.00</td><td>41.60</td></td<>			50.00	20.00	41.60
Flow rate m³/h 3.000 2.724 2.496 PLATE HEAT EXCHANGER 70 2.724 2.496 PLATE HEAT EXCHANGER 70 2.04 Heat flux kW/m² 9.8 Mean temperature difference K 2.33 CH.T.C. (available/required) W/m², °C 4260/4220 Pressure drop - total* kPa 17.5 13.1 For port kPa 0.467 4260/4220 Pressure drop - total* kPa 0.467 0.444 Port diameter (up/down) mm 33.0/33.0 33.0/33.0 Number of channels per pass 17 18 Number of plates 36 0.002 Pessuratracing % 1 0.002 Fouling factor m², °C/kW 0.002 Reynolds number 695.2 1347 Port velocity (up/down) m/s 0.973/0.973 0.973/0.973 Channel velocity m/s 0.217 0.294 Channel velocity m/s 0.217 0.294 Channel velocity m/s 0.217 0.254 Channel velocity m/s 0.214 0.24 Channel velocity m/s 0.217 0.254 Channel velocity m/s 0.214 0.254 Channel velocity m/s 0.214 0.254 Channel velocity m/s 0.215 0.505 Channel velocity m/s 0.505 0.505 Channel velocity m/s 0.505 0.505 Channel velocity	•				
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Heat flux kW/m² 9.8 Mean temperature difference K 2.33 O.H.T.C. (available/required) W/m², °C 4260/4220 Pressure drop - total* kPa 17.5 13.1 - in ports kPa 0.467 0.444 Port diameter (up/down) mm 33.0/33.0 38.0/33.0 Number of channels per pass 17 18 Number of plates 36 0.002 Oversurfacing % 1 Fouling factor m², °C/kW 0.002 Reynolds number 695.2 1347 Port velocity (up/down) m/s 0.973/0.973 0.973/0.973 Channel velocity m/s 0.217 0.205 Shear stress Pa 36.3 27.0 Average wall temperature °C 45.51 45.36 Largest wall temperature difference K 0.24 Min./Max. wall temperature °C 46.83 44.50 Physical PROPERTIES Side 1 36 Persoluti			Side 1		Side 2
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Number of channels per pass 17 18 Number of plates 36 Oversurfacing % 1 Fouling factor m², °C/kW 0.002 Reynolds number 695.2 1347 Port velocity (up/down) m/s 0.973/0.973 0.973/0.973 Channel velocity m/s 0.217 0.205 5 Shear stress Pa 36.3 27.0 27.0 Average wall temperature difference K 0.24 45.36 45.36 24.34/48.33 27.0 42.34/48.33 27.0 20.0 20.0 20.0 20.0 <	- in ports	kPa	0.467		0.444
Number of plates 36 Oversurfacing % 1 Fouling factor m², °C/kW 0.002 Reynolds number 695.2 1347 Port velocity (up/down) m/s 0.973/0.973 0.973/0.973 Channel velocity m/s 0.217 0.205 Shear stress Pa 36.3 27.0 Average wall temperature °C 45.51 45.36 Largest wall temperature difference K 0.24 Min./Max. wall temperature over or connections. °C 42.53/48.57 42.34/48.33 *Excluding pressure drop in connections. *** *** 0.24 PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.83 44.50 Dynamic viscosity - wall cP 1.30 0.602 Dynamic viscosity - wall cP 1.33 0.593 Density kg/m³ 1042 990.5 Heat capacity kJ/kg, °C 3.644 4.179 Thermal conductivity	Port diameter (up/down)	mm	33.0/33.0		33.0/33.0
Oversurfacing Fouling factor % 1 Reynolds number 695.2 1347 Port velocity (up/down) m/s 0.973/0.973 0.973/0.973 Channel velocity m/s 0.217 0.205 Shear stress Pa 36.3 27.0 Average wall temperature °C 45.51 45.36 Largest wall temperature difference K 0.24 Min./Max. wall temperature °C 42.53/48.57 42.34/48.33 *Excluding pressure drop in connections. ** Side 1 Side 2 PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.83 44.50 Dynamic viscosity - wall cP 1.30 0.602 Dynamic viscosity - wall cP 1.33 0.593 Density kg/m³ 1042 990.5 Heat capacity kJ/kg,°C 3.644 4.179 Thermal conductivity W/m²,°C 7730 11900 TOTALS Side 1 Side 2	Number of channels per pass		17		18
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Channel velocity m/s 0.217 0.205 Shear stress Pa 36.3 27.0 Average wall temperature °C 45.51 45.36 Largest wall temperature difference K 0.24 Min./Max. wall temperature °C 42.53/48.57 42.34/48.33 *Excluding pressure drop in connections. PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.83 44.50 Dynamic viscosity cP 1.30 0.602 Dynamic viscosity - wall cP 1.33 0.593 Density kg/m³ 1042 990.5 Heat capacity kJ/kg, °C 3.644 4.179 Thermal conductivity W/m, °C 0.4567 0.6367 Film coefficient W/m², °C 7730 11900 TOTALS Side 1 Side 2 Total weight empty (no connections)* kg 8 - 32.86 Total weight filled (no connections)* kg 12.12 - 36.98	•	m/s	0.973/0.973		0.973/0.973
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Thermal conductivity W/m , °C 0.4567 0.6367 Film coefficient W/m^2 , °C 7730 11900 TOTALS Side 1 Side 2 Total weight empty (no connections)* kg $8 - 32.86$ Total weight filled (no connections)* kg $12.12 - 36.98$ Hold-up volume (Inner Circuit) dm³ 1.97 Hold-up volume (Outer Circuit) dm³ 2.09 Port size F1/P1 mm 33					
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Port size F1/P1 mm 33	' '				
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	Port size F2/P2	mm		33	
Port size F3/P3 mm 33					
Port size F4/P4 mm 33					
Carbon footprint kg 56.19	Carbon footprint	кд		56.19	



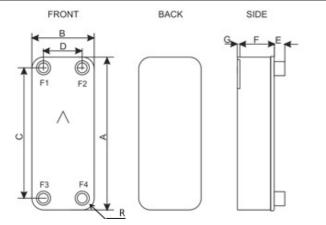
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Date: 24/05/2023



*Weight depends on the selected product.

DIMENSIONS



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

A*	mm	526 - 562 ±2
B*	mm	119 - 155 ±1
С	mm	470 ±1
D	mm	63 ±1
E*	mm	27 - 45 / 45 ±1
F*	mm	84.64 - 98.76 ±2.5%
G	mm	6 ±1
Р	mm	15
R*	mm	15 - 23

^{*}Dimensions depend on the selected product.

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.



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