



SINGLE PHASE - RATING HEAT EXCHANGER: B28Hx116/1P

SWEP SSP G8 2023.505.1.0

Date: 24/05/2023

SSP Alias:	B28
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Flow type	DUTY REQUIREMENTS		Side 1		Side 2			
Inner	Fluid				Water			
Heat load	Flow type		Co	unter-Current				
Inlet temperature			Inner		Outer			
Outlet temperature °C 43.35 47.20 Flow rate m³/h 10.00 10.00 Thermal length 2.759 2.528 PLATE HEAT EXCHANGER Side 1 Side 2 Total heat transfer area m² 6.84 Heat flux kW/m² 10.2 Mean temperature difference K 2.41 O.H.T.C. (available/required) W/m², °C 4360/4250 Pressure drop total* kPa 2.22 18.5 Fin ports kPa 5.29 5.05 Port diameter (up/down) mm 33.0/33.0 33.0/33.0 Number of plates 7 58 Number of plates 8 7 58 Number of plates % 3 116 Oversurfacing % 3 1387 Fouling factor m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 3.59 2.87 Average wall temp	Heat load			70.00				
Flow rate m³/h 10.00 2.759 2.528	Inlet temperature		50.00					
Thermal length	Outlet temperature	°C	43.35		47.30			
PLATE HEAT EXCHANGER	Flow rate	m³/h	10.00		10.00			
Total heat transfer area m² 6.84 Heat flux KW/m² 10.2 Mean temperature difference K 2.41 4360/4250 Fressure drop - total* 4360/4250 F	Thermal length		2.759		2.528			
Heat flux RW/m² 10.2 10.2	PLATE HEAT EXCHANGER		Side 1		Side 2			
Mean temperature difference K 2.41 O.H.T.C. (available/required) W/m²,°C 4360/4250 Pressure drop - total* KPa 22.2 18.5 - in ports kPa 5.29 5.05 Port diameter (up/down) mm 33.0/33.0 33.0/33.0 Number of plates 57 58 Number of plates 116 0.006 Oversurfacing % 3 Fouling factor m²,°C/kW 0.006 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature difference K 0.20 Min./Max. wall temperature °C 45.29 4.2								
O.H.T.C. (available/required) W/m²,°C 4360/4250 Pressure drop - total* kPa 22.2 18.5 - in ports kPa 5.29 5.05 Port diameter (up/down) mm 33.0/33.0 33.0/33.0 Number of channels per pass 57 58 Number of plates 116 16 Oversurfacing % 3 5 Fouling factor 68.8 1387 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature °C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. *** Side 2 PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity - wall cP 1	Heat flux							
Pressure drop - total* kPa 22.2 18.5 - in ports kPa 5.29 5.05 Port diameter (up/down) mm 33.0/33.0 33.0/33.0 Number of channels per pass 57 58 Number of plates 116 Oversurfacting 3 Fouling factor m², °C/kW 0.006 0.006 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature °C 46.67 44.25 Verbuilding pressure drop in connections. *** Side 1 Side 2 PHYSICAL PROPERTIES *** Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity - wall cP 1.30 <td>Mean temperature difference</td> <td>K</td> <td></td> <td>2.41</td> <td></td>	Mean temperature difference	K		2.41				
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Port diameter (up/down) mm 33.0/33.0 33.0/33.0 Number of channels per pass 57 58 Number of plates 116 58 Oversurfacing % 3 Fouling factor m², °C/kW 0.006 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature difference K 0.20 Min./Max. wall temperature °C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. ** 5ide 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg, °C<	Pressure drop - total*	kPa	22.2		18.5			
Port diameter (up/down)	- in ports	kPa	5.29		5.05			
Number of channels per pass 57 58 Number of plates 116 116 Oversurfacing % 3 Fouling factor m², °C/kW 0.006 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature °C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. ** 5 PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg,°C 3.643 4.179 Thermal conductivity W/m°, °C 0.4566 <td></td> <td>mm</td> <td>33.0/33.0</td> <td></td> <td>33.0/33.0</td>		mm	33.0/33.0		33.0/33.0			
Number of plates 116 Oversurfacing % 3 Fouling factor m², °C/kW 0.006 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature or or nonections. °C 42.13/48.47 41.97/48.27 **Excluding pressure drop in connections. **PHYSICAL PROPERTIES Side 1 Side 2 **Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.34 0.595 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg, °C 3.643 4.179 Thermal conductivity W/m, °C 0.4566 0.6364 Film coefficient W/m, °C 7								
Oversurfacing Fouling factor % m²,°C/kW 3 0.006 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature or connections. C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. *PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.30 0.605 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg,°C 3.643 4.179 Thermal conductivity W/m,°C 0.4566 0.6364 Film coefficient W/m²,°C 7690 12200 **TOTALS Total weight filled (no connections)* kg 21.12 - 45.98	· · ·			116				
Fouling factor m², °C/kW 0.006 Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature °C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.30 0.605 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg,°C 3.643 4.179 Thermal conductivity W/m,°C 0.4566 0.6364 Film coefficient W/m²,°C 7690 12200 <td cols<="" td=""><td></td><td>%</td><td></td><td></td><td></td></td>	<td></td> <td>%</td> <td></td> <td></td> <td></td>		%					
Reynolds number 688.8 1387 Port velocity (up/down) m/s 3.24/3.24 3.24/3.24 Channel velocity m/s 0.215 0.212 Shear stress Pa 35.9 28.7 Average wall temperature °C 45.29 45.13 Largest wall temperature difference K 0.20 Min./Max. wall temperature difference K 0.20 Min./Max. wall temperature °C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.30 0.605 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg, °C 3.643 4.179 Thermal conductivity W/m, °C 0.4566 0.6364 Fill modefficient W/m², °C 7690 12200 TOTALS Side 1								
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Largest wall temperature difference K 0.20 Min./Max. wall temperature °C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.30 0.605 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg,°C 3.643 4.179 Thermal conductivity W/m,°C 0.4566 0.6364 Film coefficient W/m²,°C 7690 12200 TOTALS Side 1 Side 2 TOTALS Side 1 Side 2 Total weight empty (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) dm³ 6.73 Port size F1/P1 mm 33 Port size F2/P2 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>								
Min./Max. wall temperature °C 42.13/48.47 41.97/48.27 *Excluding pressure drop in connections. PHYSICAL PROPERTIES Side 1 Side 2 Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.30 0.605 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg, °C 3.643 4.179 Thermal conductivity W/m, °C 0.4566 0.6364 Film coefficient W/m², °C 7690 12200 TOTALS Side 1 Side 2 Total weight empty (no connections)* kg 21.12 - 45.98 Total weight filled (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) dm³ 6.73 Port size F1/P1 mm 33 Port size F2/P2 mm 33 Port size F3/P3 mm 33 <td <="" colspan="3" td=""><td></td><td></td><td>40.29</td><td>0.20</td><td>43.13</td></td>	<td></td> <td></td> <td>40.29</td> <td>0.20</td> <td>43.13</td>					40.29	0.20	43.13
*Excluding pressure drop in connections. PHYSICAL PROPERTIES Reference temperature °C 46.67 44.25 Dynamic viscosity °P 1.30 0.605 Dynamic viscosity - wall °P 1.34 0.595 Density °R kg/m³ 1042 990.6 Heat capacity °R kJ/kg,°C 3.643 4.179 Thermal conductivity °R v/m,°C 0.4566 0.6364 Film coefficient **Side 1** **Side 2** **TOTALS** **TOTALS** **Side 1** **Side 2** **TOTALS** **Dot size F1/P1 **mm** **Mg** **G. 34.67 - 59.53 **Hold-up volume (Inner Circuit) **dm³* **G. 6.61 **Hold-up volume (Outer Circuit) **dm³* **G. 6.61 **Hold-up volume (Outer Circuit) **dm³* **G. 6.61 **Hold-up volume (Outer Circuit) **dm³* **G. 73 **Port size F1/P1 **mm** **Mm** **33 **Port size F3/P3 **port size F3/P3 **mm** **Mm** **33 **Port size F4/P4 **mm** **Max. 21.12 - 45.98 **A-6.61 **A-7.59.53 **A-6.61 **A-7.59.53 **A-6.61 **A-7.59.53 **A-7			12 12/12 17	0.20	/1 Q7//Q Q7			
Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.30 0.605 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg,°C 3.643 4.179 Thermal conductivity W/m,°C 0.4566 0.6364 Film coefficient W/m²,°C 7690 12200 TOTALS Side 1 Side 2 Total weight empty (no connections)* kg 21.12 - 45.98 Total weight filled (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) dm³ 6.73 Port size F1/P1 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33	•	C	42.13/40.47		41.97/40.27			
Reference temperature °C 46.67 44.25 Dynamic viscosity cP 1.30 0.605 Dynamic viscosity - wall cP 1.34 0.595 Density kg/m³ 1042 990.6 Heat capacity kJ/kg,°C 3.643 4.179 Thermal conductivity W/m,°C 0.4566 0.6364 Film coefficient W/m²,°C 7690 12200 TOTALS Side 1 Side 2 Total weight empty (no connections)* kg 21.12 - 45.98 Total weight filled (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) dm³ 6.73 Port size F1/P1 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33	PHYSICAL PROPERTIES		Side 1		Side 2			
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Heat capacity	•							
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Film coefficient W/m²,°C 7690 12200 TOTALS Side 1 Side 2 Total weight empty (no connections)* kg 21.12 - 45.98 Total weight filled (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) dm³ 6.73 Port size F1/P1 mm 33 Port size F2/P2 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33								
Total weight empty (no connections)* kg 21.12 - 45.98 Total weight filled (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) mm 33 Port size F1/P1 mm 33 Port size F2/P2 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33	Film coefficient	· · · · · · · · · · · · · · · · · · ·						
Total weight empty (no connections)* kg 21.12 - 45.98 Total weight filled (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) mm 33 Port size F1/P1 mm 33 Port size F2/P2 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33	TOTALS		Side 1		Side 2			
Total weight filled (no connections)* kg 34.67 - 59.53 Hold-up volume (Inner Circuit) dm³ 6.61 Hold-up volume (Outer Circuit) dm³ 6.73 Port size F1/P1 mm 33 Port size F2/P2 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33		ka	0.00	21.12 - 45.98				
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Port size F1/P1 mm 33 Port size F2/P2 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33	,							
Port size F2/P2 mm 33 Port size F3/P3 mm 33 Port size F4/P4 mm 33	. ,							
Port size F3/P3 mm 33 Port size F4/P4 mm 33								
Port size F4/P4 mm 33								
Carbon rootprint kg 146.4	Carbon footprint	kg		148.4				



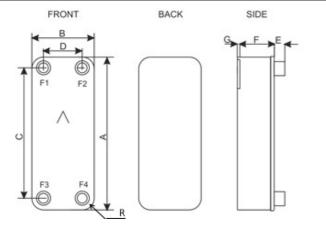
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Date: 24/05/2023



*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	263.84 - 291.56 ±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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