

SINGLE PHASE - WYDRUK NA ARTYKULE NR. Art No : 16196-080
TYP WYMIENNIKA CIEPŁA : B35TH0x80/1P-SC-S (4x2")
Art No : 16196-080
Acc. No. Denomination

21112 STUDBOLT LOC F35/35T/35TDW/3154xM12x20 C140x100

Connection Data F1 -F2 -F3 -F4-ISO-G 2" A(54)

Connection Locations STRONA 1: F3/F1 (In / Out)
 STRONA 2: F2/F4 (In / Out)

Medium strona 1 : Woda Medium strona 2 : Woda
Flow Type : Counter-Current
STRONA 1 : Obwód wewnętrzny STRONA 2 : Obwód zewnętrzny
WARUNKI PRACY

| | | STRONA 1 | STRONA 2 |
|---------------------------|------|-----------------|-----------------|
| Moc cieplna | kW | 367.4 | |
| Temperatura wejściowa | °C | 119.00 | 60.00 |
| Temperatura wyjściowa | °C | 65.00 | 80.00 |
| Przepływ | kg/s | 1.616 | 4.383 |
| Jedn. przenoszenia ciepła | | 3.262 | 1.208 |

PŁYTOWY WYMIENNIK CIEPŁA

| | | STRONA 1 | STRONA 2 |
|---|------------------------|-----------------------|-----------------------|
| Całkowita powierzchnia wymiany ciepła | m ² | 7.33 | |
| Strumień ciepła | kW/m ² | 50.1 | |
| Średnia log. różnica temperatur | K | 16.55 | |
| Śr. wsp. wymiany ciepła (wynikowy/wymagany) | W/m ² , °C | 4180/3030 | |
| Spadek ciśnienia - całkowity* | kPa | 3.28 | 21.4 |
| - w połączeniach | kPa | 0.679 | 4.94 |
| Średnica połączenia | mm | 42.0/42.0 (góraż/dół) | 42.0/42.0 (góraż/dół) |
| Number of channels per pass | | 39 | 40 |
| Ilość płyt | | 80 | |
| Przewymiarowanie | % | 38 | |
| Współczynnik zanieczyszczenia | m ² , °C/kW | 0.090 | |
| Liczba Reynoldsa | | 1132 | 2277 |
| Prędkość w połączeniach | m/s | 1.21/1.21 (góraż/dół) | 3.24/3.24 (góraż/dół) |

WŁASNOŚCI FIZYCZNE

| | | STRONA 1 | STRONA 2 |
|-------------------------------------|-----------------------|-----------------|-----------------|
| Temperatura odniesienia | °C | 92.00 | 70.00 |
| Lepkość | cP | 0.308 | 0.404 |
| Lepkość - ścianka | cP | 0.360 | 0.367 |
| Gęstość | kg/m ³ | 964.1 | 977.7 |
| Ciepło właściwe | kJ/kg, °C | 4.209 | 4.192 |
| Przewodność cieplna | W/m, °C | 0.6761 | 0.6631 |
| Largest wall temperature difference | K | 2.97 | |
| Średnia temperatura ścianki | °C | 62.03 | 61.65 |
| Maximum wall temperature | °C | 95.85 | 92.88 |
| Wsp. wymiany ciepła | W/m ² , °C | 7040 | 12700 |
| Average wall temperature | °C | 78.79 | 77.35 |
| Prędkość w kanałach | m/s | 0.0903 | 0.235 |
| Shear stress | Pa | 8.01 | 50.7 |

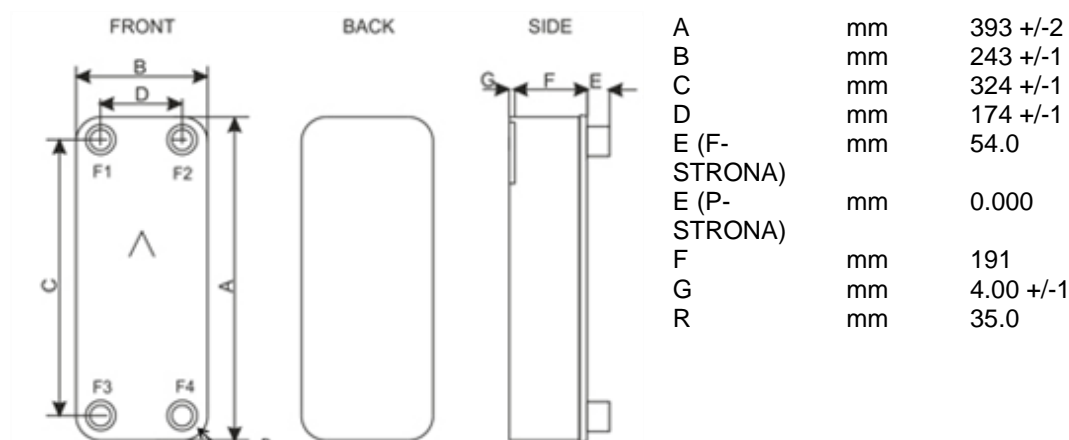
SUMY

| | | |
|--|---------------------|---------|
| Masa całkowita pusty | kg | 30.6 |
| Masa całkowita wypełnione | kg | 44.4 |
| Objętość hold-up, obwód wewnętrzny | dm ³ | 7.02 |
| Objętość hold-up, obwód zewnętrzny | dm ³ | 7.20 |
| Rozmiar złącza F1/P1 F2/P2 F3/P3 F4/P4 | mm | 42.0 |
| NND F1/P1 F2/P2 F3/P3 F4/P4 | mm | 42.0 |
| Ślad węglowy | kg | 195 |
| Plate Material | 316 Stal nierdzewna | |
| Lutu | Miedź | |
| Max operating pressure | bar | 26/22 |
| Test pressure | bar | 40 |
| Max working temperature | °C | 135/225 |

STRONA 1

STRONA 2

WYMIARY



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

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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