

SSP G7 - (v 7.0.3.67)
Datum : 2017-03-22

KONDENSATOR - ANGEBOT

WT-TYP : B8LASHx22/1P-SC-M (6.5+12.8+2x3/4")

Art. Nummer : 17188-022

Connection Data

| | |
|------|-------------------------------------|
| F1 - | SOLDER 12.8 AISI 304 NON-CASTED(20) |
| F2 - | ISO-G 3/4" A NON-CASTED(20) |
| F3 - | SOLDER 6.5 AISI 304(20) |
| F4 - | ISO-G 3/4" A NON-CASTED(20) |

Connection Locations

| | |
|----------|-------------------|
| SEITE 1: | F1/F3 (Ein / Aus) |
| SEITE 2: | F4/F2 (Ein / Aus) |

Name des Mediums Seite 1 : R290 (Propan)

Name des Mediums Seite 2 : Propylenglycol - Wasser (38 mass-%)

Strömungsrichtung : Gegenstrom

Side 1 : Inner Circuit, Narrow side
Side 2 : Outer Circuit, Wide side

SSP Alias : B8LAS

TECHN. VORGABEDATEN

| | | SEITE 1 | SEITE 2 |
|--------------------------|-------------|---------|---------|
| Leistung | kW | 3,200 | |
| Eintrittstemperatur | °C | 40,00 | 5,00 |
| Kondensationstemperatur | °C | 11,06 | |
| Unterkühlung | K | 3,00 | |
| Austrittstemperatur | °C | 8,06 | 8,99 |
| Durchfluss | kg/h m³/h | 27,38 | 0,7500 |
| Kondensationsmassenstrom | kg/h | 27,38 | |
| Max. Druckverlust | kPa | 50,0 | 50,0 |

AUSLEGUNGSERGEBNISSE

| | | SEITE 1 | SEITE 2 |
|--|-----------|---------------------------|---------------------------|
| Wärmetauscherfläche | m² | 0,506 | |
| Wärmestromdichte | kW/m² | 6,33 | |
| MTD | K | 4,34 | |
| Wärmedurchgangskoeffizient (vorhanden/benötigt) | W/m², °C | 1460/1460 | |
| Druckverlust - total* | kPa | 3,43 | 40,8 |
| - in den Anschlüssen | kPa | -0,0287 | 0,530 |
| Austrittsdruck | kPa | 647 | |
| Kanäle-Anzahl | | 10 | 11 |
| Gesamtplattenzahl | | 22 | |
| Flächenreserve | % | 0 | |
| Verschmutzungsfaktor | m², °C/kW | 0,002 | |
| Anschlussdurchmesser | mm | 16,0/16,0 (oben/unten) | 16,0/16,0 (oben/unten) |
| Empfohlener Eintrittsdurchmesser | mm | From 5,31 to 11,9 | |
| Empfohlener Austrittsdurchmesser | mm | From 3,07 to 6,14 | |
| Reynoldszahl | | | 70,95 |
| Anschlußgeschwindigkeit – Eintritt | m/s | 2,74 | 1,04 |

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PHYSIKALISCHE KENNWERTE

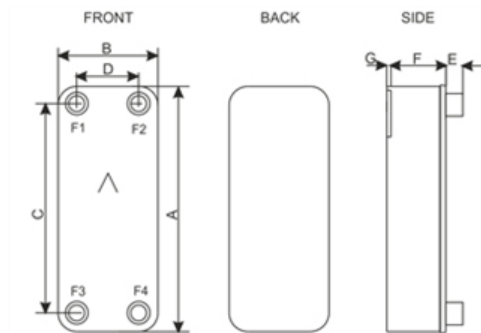
| | | SEITE 1 | SEITE 2 |
|--|-----------------------|---------|---------|
| Referenztemperatur | °C | 11,06 | 7,00 |
| Flüssigkeit Viskosität | cP | 0,114 | 7,63 |
| Dichte | kg/m ³ | 513,5 | 1042 |
| Spez. Wärmekapazität | kJ/kg, °C | 2,699 | 3,694 |
| Wärmeleitfähigkeit | W/m, °C | 0,09936 | 0,3988 |
| Dampf Viskosität | cP | 7,80e-3 | |
| Dichte | kg/m ³ | 13,75 | |
| Spez. Wärmekapazität | kJ/kg, °C | 1,874 | |
| Wärmeleitfähigkeit | W/m, °C | 0,01616 | |
| - Latente Wärme | kJ/kg | 357,5 | |
| Wärmeübergangskoeff. | W/m ² , °C | 2770 | 5060 |
| Minimum Wandtemperatur | °C | 5,48 | 5,45 |
| Maximum Wandtemperatur | °C | 11,74 | 11,58 |
| Größte Temperaturdifferenz an der Wand | K | | 0,17 |
| Kanalgeschwindigkeit | m/s | 0,686 | 0,236 |
| Shear stress | Pa | | 79,7 |

TOTALS

| | | SEITE 1 | SEITE 2 |
|----------------------------|-----------------|-------------------------------------|---------|
| Gesamtgewicht | kg | | 2,14 |
| Füllvolumen, innerer Kreis | dm ³ | | 0,204 |
| Füllvolumen, äußerer Kreis | dm ³ | | 0,264 |
| Port size F1/P1 | mm | | 16,0 |
| Port size F2/P2 | mm | | 16,0 |
| Port size F3/P3 | mm | | 16,0 |
| Port size F4/P4 | mm | | 16,0 |
| NND F1/P1 | mm | | 18,0 |
| NND F2/P2 | mm | | 18,0 |
| NND F3/P3 | mm | | 18,0 |
| NND F4/P4 | mm | | 18,0 |
| CO2-Bilanz | kg | | 15,0 |
| Plattenmaterial | | 316 Stainless steel | |
| Hartlötmaterial | | Copper | |
| Max. Betriebsdruck | bar | | 45/36 |
| Testdruck | bar | | 69 |
| Max. Betriebstemperatur | °C | | 135/225 |
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| | F3 | SOLDER 6.5 AISI 304(20) | |
| | F4 | ISO-G 3/4" A NON-CASTED(20) | |
| Connection placement | in/out | F1/F3 | F4/F2 |

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MASSE



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

| | | |
|---|----|-----------|
| A | mm | 318 +/-2 |
| B | mm | 76,2 +/-1 |
| C | mm | 278 +/-1 |
| D | mm | 40,0 +/-1 |
| E | mm | 20,1 +/-1 |
| F | mm | 33,0 |
| G | mm | 6,30 +/-1 |
| R | mm | 18,0 |

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.

*Ohne Druckverlust in den Anschlüssen.