

Technical specification



Project ref: Alfa Laval
 Line ref:
 Model: AC-70X-40M-F
 Item Id: 3287065789
 No of units: 1

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 Date: 2019-07-12

| | | Hot side S1 -> S2 | Cold Side S3 -> S4 |
|--|------|----------------------|-----------------------|
| Process data | | | |
| Capacity: | kW | 43.8 | |
| Fluid: | | Water | R407C |
| Mass flow rate: | kg/h | 7 508 | 929 |
| Inlet temperature: | °C | 15,0 | 1,4 |
| Outlet temperature: | °C | 10,0 | 10,0 |
| Evaporating temperature (dew): | | | 5,0 |
| Evaporating pressure: | bara | | 5,5 |
| Super heating: | | | 5 |
| Inlet quality: | | | 0,2126 |
| Total pressure drop calculated (allowed) | kPa | 77,7 (80,00) | 208,2 (300,00) |
| Connection velocity in/out: | m/s | 5,03/5,02 | 3,41/28,01 |
| Margin calculated (specified): | % | 15(0) | |

| | | | |
|--|-----------------|------------------------------------|-----|
| Heat exchanger specification | | | |
| Relative directions of fluids: | | Countercurrent | |
| Number of plates: | | 40 | |
| Channel volume: | dm ³ | 1,8 | 1,9 |
| Number of circuits: | | 1 | 1 |
| Design pressure at -196 °C | bar | 32 | 32 |
| Design pressure at 150 °C | bar | 32 | 32 |
| Design temperature (min/max): | °C | -196 / 150 | |
| Pressure vessel code: | | PED | |
| Material Channel plates / Sealing: | | ALLOY 316 / Cu | |
| Connection S1 (Hot-In): | | Threaded (External) 1" ISO 228/1-G | |
| Connection S2 (Hot-Out): | | Threaded (External) 1" ISO 228/1-G | |
| Connection S3 (Cold-In): | | Soldering 16 mm | |
| Connection S4 (Cold-Out): | | Soldering 1 1/8" | |
| Unit dimensions (length x width x height): | mm | 127 x 111 x 526 | |
| Net weight, empty / operating: | kg | 9,3 / 11,27 | |
| Packed length x width x height: | mm | 160,0 x 125 x 579,0 | |
| Packed weight: | kg | 9,46 | |

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