SSP G7
(v 7.0.3.32)

CONDENSER - Design
Heat Exchanger : B25Tx40

Fluid Side 1 : R410A
Fluid Side 2 : Water

Flow Type : Counter-Current

DUTY REQUIREMENTS		**Side 1**		**Side 2**
Heat load	kW		7,200	
Inlet temperature	°C	74,00		30,00
Condensation temperature (dew)	°C	35,00		
Subcooling	K	2,00		
Outlet temperature	°C	32,90		35,00
Flow rate	kg/s	0,03274		0,3446
Fluid condensed	kg/s	0,03274		
Max. pressure drop	kPa	50,0		50,0

PLATE HEAT EXCHANGER		**Side 1**		**Side 2**
Total heat transfer area	m²		2,39	
Heat flux	kW/m²		3,01	
Mean temperature difference	K		4,22	
O.H.T.C. (available/required)	W/m²,°C		829/713	
Pressure drop -total*	kPa	-0,250		3,35
- in ports	kPa	-0,0153		0,277
Operating pressure - outlet	kPa	2130		
Number of channels		19		20
Number of plates			40	
Oversurfacing	%		16	
Fouling factor	m²,°C/kW		0,196	
Port diameter	mm	24,0		24,0
Recommended inlet connection diameter	mm	From 4,53 to 10,1		
Recommended outlet connection diameter	mm	From 2,03 to 6,43		
Reynolds number				403
Inlet port velocity	m/s	0,890		0,766

PHYSICAL PROPERTIES		**Side 1**	**Side 2**
Reference temperature	°C	34,95	32,50
Liquid - Dynamic viscosity	cP	0,106	0,757
- Density	kg/m³	1009	994,9
- Heat capacity	kJ/kg,°C	1,783	4,178
- Thermal conductivity	W/m,°C	0,09122	0,6194
Vapor - Dynamic viscosity	cP	0,0138	
- Density	kg/m³	81,38	
- Heat capacity	kJ/kg,°C	1,309	
- Thermal conductivity	W/m,°C	0,01298	
- Latent heat	kJ/kg	169,9	
Film coefficient	W/m²,°C	2060	5920
Minimum wall temperature	°C	36,70	36,56
Channel velocity	m/s	0,0937	0,0766

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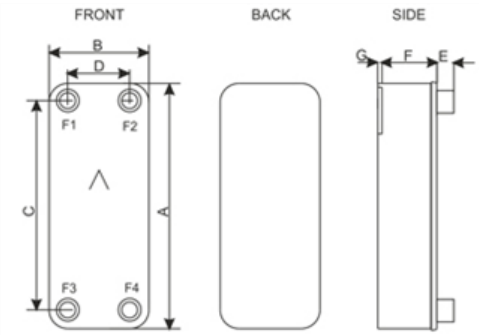
Totals		**Side 1**	**Side 2**
Total weight (no connections)	kg	8,19 - 55,2	
Hold-up volume, inner circuit	dm³	2,11 - 2,17	
Hold-up volume, outer circuit	dm³	2,22 - 2,28	
PortSize F1/P1	mm	24,0	
PortSize F2/P2	mm	24,0	
PortSize F3/P3	mm	24,0	
PortSize F4/P4	mm	24,0	
NND F1/P1	mm	27,0 and/or 18,0	
NND F2/P2	mm	18,0 and/or 27,0	
NND F3/P3	mm	27,0 and/or 18,0	
NND F4/P4	mm	18,0 and/or 27,0	
Carbon Footprint	kg	65,0	

DIMENSIONS



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

A	mm	524 to 566 +/-2
B	mm	117 to 159 +/-1
C	mm	479 +/-1
D	mm	72 +/-1
E	mm	20 to 54 (opt. 45) +/-1
F	mm	91,60 to 162,00 +/-3%
G	mm	0,0 to 7 +/-1
R	mm	22 to 23

*Excluding pressure drop in connections.

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