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DUTY REQUIREMENTS

	Side 1	Side 2
Fluid	Water	Water
Flow type	Counter-Current	
Circuit	Inner	Outer
Heat load	kW	309.0
Inlet temperature	°C	70.0
Outlet temperature	°C	65.4
Flow rate	m³/h	58.59
Thermal length		1.11

PLATE HEAT EXCHANGER

	Side 1	Side 2
Total heat transfer area	m²	38.6
Heat flux	kW/m²	8.00
Mean temperature difference	K	4.2
Overall heat transfer coefficient required	W/m²,°C	1920
Pressure drop - total*	kPa	21.0
- in ports	kPa	2.00
Port diameter (up/down)	mm	100/100
Number of channels per pass		99
Number of plates		200
Oversurfacing	%	188
Fouling factor	m²,°C/kW	0.339
Reynolds number		2567
Port velocity (up/down)	m/s	2.07/2.07
Channel velocity	m/s	0.274
Shear stress	kPa	0.0336
Average wall temperature	°C	65.9
Largest wall temperature difference	K	0.5
Min/Max. wall temperature	°C	63.5/68.3

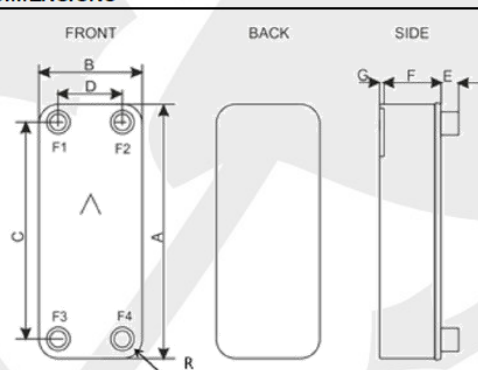
*Excluding pressure drop in connections.

TOTALS

	Side 1	Side 2
Total weight empty (no connections)*	kg	126.74 - 139.89
Total weight filled (no connections)*	kg	205.74 - 218.89
Hold-up volume (Inner Circuit)	dm³	40.1
Hold-up volume (Outer Circuit)	dm³	40.5
Port size F1/P1	mm	100
Port size F2/P2	mm	100
Port size F3/P3	mm	100
Port size F4/P4	mm	100

*Weight depends on the selected product.

DIMENSIONS



A	mm	694 ±2
B	mm	304 ±1
C	mm	567 ±2
D	mm	179 ±1
E*	mm	20 - 54 / 20 - 112 ±1
F*	mm	465 - 480 +0.5%/-1.5%
G*	mm	0 - 3.5
R	mm	44

*Dimensions depend on the selected product.