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DUTY REQUIREMENTS

		Side 1	Side 2
Fluid		Water	Water
Flow type		Counter-Current	
Circuit		Inner	Outer
Heat load	kW		103.0
Inlet temperature	°C	70.0	62.0
Outlet temperature	°C	65.4	67.0
Flow rate	m ³ /h	19.53	18.00
Thermal length		1.46	1.58

PLATE HEAT EXCHANGER

		Side 1	Side 2
Total heat transfer area	m ²		12.2
Heat flux	kW/m ²		8.48
Mean temperature difference	K		3.2
Overall heat transfer coefficient required	W/m ² .°C		2670
Pressure drop - total*	kPa	23.2	19.1
- in ports	kPa	1.40	1.20
Port diameter (up/down)	mm	63.0/63.0	63.0/63.0
Number of channels per pass		30H+19L	30H+20L
Number of plates			100
Oversurfacing	%		92
Fouling factor	m ² .°C/kW		0.178
Reynolds number		2179	1890
Port velocity (up/down)	m/s	1.74/1.74	1.61/1.61
Channel velocity	m/s	0.282	0.255
Shear stress	kPa	0.0413	0.0339
Average wall temperature	°C	66.3	66.0
Largest wall temperature difference	K		0.3
Min/Max. wall temperature	°C	63.9/68.7	63.6/68.4

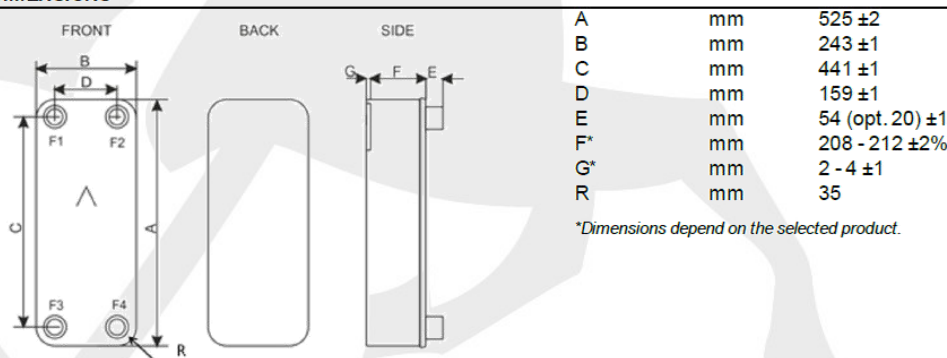
*Excluding pressure drop in connections.

TOTALS

		Side 1	Side 2
Total weight empty (no connections)*	kg		48.51 - 52.23
Total weight filled (no connections)*	kg		66.94 - 70.66
Hold-up volume (Inner Circuit)	dm ³		9.31
Hold-up volume (Outer Circuit)	dm ³		9.5
Port size F1/P1	mm		63
Port size F2/P2	mm		63
Port size F3/P3	mm		63
Port size F4/P4	mm		63

*Weight depends on the selected product.

DIMENSIONS



*Dimensions depend on the selected product.