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DUTY REQUIREMENTS

	Side 1	Side 2
Fluid	Water	Water
Flow type	Counter-Current	
Circuit	Inner	Outer
Heat load	kW 206.0	
Inlet temperature	°C 70.0	°C 62.0
Outlet temperature	°C 65.4	°C 67.0
Flow rate	m ³ /h 39.06	m ³ /h 36.00
Thermal length	1.46	1.58

PLATE HEAT EXCHANGER

	Side 1	Side 2
Total heat transfer area	m ² 24.6	
Heat flux	kW/m ² 8.39	
Mean temperature difference	K 3.2	
Overall heat transfer coefficient required	W/m ² ·°C 2640	
Pressure drop - total*	kPa 29.6	kPa 25.0
- in ports	kPa 5.68	kPa 4.86
Port diameter (up/down)	mm 63.0/63.0	mm 63.0/63.0
Number of channels per pass	70H+29L	
Number of plates	200	
Oversurfacing	% 103	
Fouling factor	m ² ·°C/kW 0.192	
Reynolds number	2157	1890
Port velocity (up/down)	m/s 3.48/3.48	m/s 3.21/3.21
Channel velocity	m/s 0.279	
Shear stress	kPa 0.0454	
Average wall temperature	°C 66.3	
Largest wall temperature difference	K 0.3	
Min./Max. wall temperature	°C 63.9/68.7	°C 63.6/68.4

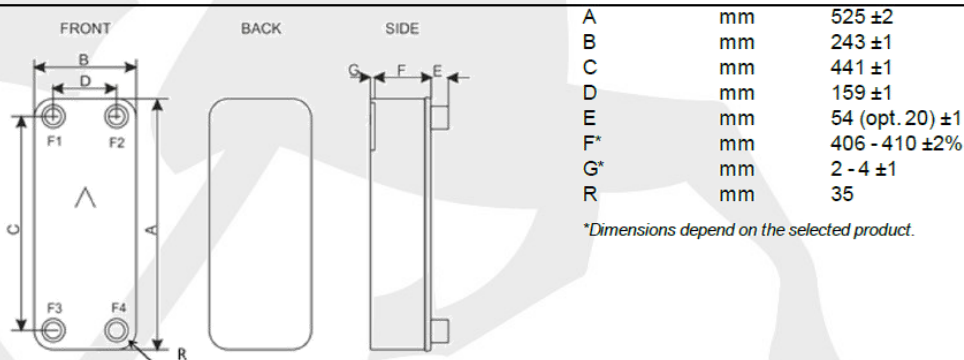
*Excluding pressure drop in connections.

TOTALS

	Side 1	Side 2
Total weight empty (no connections)*	kg 87.41 - 91.13	
Total weight filled (no connections)*	kg 124.46 - 128.18	
Hold-up volume (Inner Circuit)	dm ³ 18.81	
Hold-up volume (Outer Circuit)	dm ³ 19	
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.