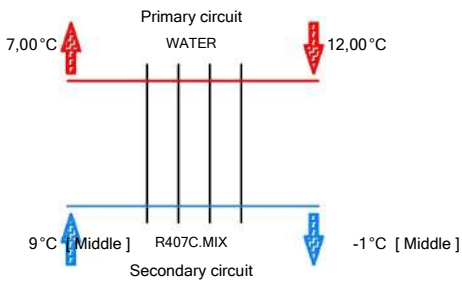
MIT Endüstriyel Ürünler

EKİN ENDÜSTRİYEL
Isıtma-Soğutma San.Tic.Ltd.Şti

MB-07

Customer	-	Project nbr.	
Attention	-	Date	18.03.2022

Exchanger properties				
Obtained Capacity	42,00		kW	
Plate Type	MB-07			
Nbr. Of plates	40			
Plate Arrangement	40H			
Heat Transfer Area	4,56		m²	
Margin	1,32		%	
Overall K-value duty / clean	1625		W/(m² K)	
LMTD	5,05		°C	
	Primary circuit		Secondary circuit	
Fluid type	WATER		R407C.MIX	
Nbr. of circuits	1		1	
Flow rate	7,2	m³/h	727,6	kg/h
Inlet Temperature	12,00	°C	35,00	°C
Outlet Temperature	7,00	°C	9,00	°C
Condensing temperature			4,00	°C (Dew)
Overheating			5,00	K
Total Pressure drops	21,89	kPa	10,37	kPa
Pressure drops in plates	21,89	kPa	10,37	kPa
Pressure drops in connections	0,00	kPa	0,00	kPa
Channel velocity	0,10	m/s	0,42	m/s
Connection velocity	0	m/s	0/0	m/s
Fouling factor	0,0000000	(m² K)/W	0,0000000	(m² K)/W
Thermophisical properties	Primary circuit		Secondary circuit	
Fluid density	999,74	kg/m³	22,54	kg/m³
Fluid specific heat	4196	J/(kg K)	980	J/(kg K)
Fluid thermal conductivity	0,578	W/(m K)	0,012	W/(m K)
Viscosity	1,3249	cP	0,000011424	kg/(m s)
List of materials				
Plate Material	0,4 mm - AISI 316L			
Brazing material	Copper			
Frame material	AISI 304			
Connections				
Primary side	M1 => M2			
Secondary side	M3 => M4			
Weight Dry / Wet	0/54,99	kg		
Inside Volume Primer / Seconder	55 / 54	l		
Design / Test Pressure	30 / 45	bar		
Min / Max Working Temperature	-196 / 196	°C		
Max. Differential Pressure Difference	5	bar		



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