

KAR-K050-50-GB8

PLATE HEAT EXCHANGER DATA SHEET

 Customer name :
 Project name :KAR-K050-50-GB8
 Date : 2022. 08. 30.

Heat transfer device : Cooler PHE Code : K050*50
 No. of plates : 50 Series * Parallel: 1*1
 Length : 306,0 mm Height : 129,00 mm
 Width : 106,0 mm Weight : 6,99 kg

	Side 1	Side 2	Unit
Fluid name	Water	Water	
Mass Flow rate	0,8	0,8	kg/s
Inlet temp.	70,00	40,00	C
Exit temp.	50,74	59,26	C
Pressure drop	8,4	8,0	kPa
Allowable press. drop	50,0	50,0	kPa
Fouling Resistance	0	0	m ² ,C / W
No. of channel	24	25	
Channel Volume	1,320	1,375	L

Reference temp.	60,4	49,6	C
Density	982,1	987,1	kg/m ³
Specific heat capacity	4,173	4,173	kJ/kg,C
Thermal conductivity	0,652	0,640	W/m,C
Viscosity	0,466	0,557	cP
Channel velocity	0,17	0,16	m/s

Log mean temp. diff.		10,739	C
Heat transfer area		1,224	m ²
Heat load		64,31	kW

 Plate material 316
 Solder Copper
 Working Press. 30 bar (max.)
 Testing Press. 43 bar (min.)
 Flow arrangement Countercurrent

	Inch	Connection Type		Inch	Connection Type
A1	1	GB Male	B1	1	GB Male
A2			B2		
C1	1	GB Male	D1	1	GB Male
C2			D2		

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