

KAR-K050-40-GB8

PLATE HEAT EXCHANGER DATA SHEET

Customer name :
Project name :KAR-K050-40-GB8
Date : 2022. 08. 30.

Heat transfer device : Cooler PHE Code : K050*40
No. of plates : 40 Series * Parallel: 1*1
Length : 306,0 mm Height : 105,20 mm
Width : 106,0 mm Weight : 5,83 kg

	Side 1	Side 2	Unit
Fluid name	Water	Water	
Mass Flow rate	0,657	0,6577	kg/s
Inlet temp.	70,00	40,00	C
Exit temp.	50,86	59,12	C
Pressure drop	8,5	7,9	kPa
Allowable press. drop	50,0	50,0	kPa
Fouling Resistance	0	0	m ² ,C / W
No. of channel	19	20	
Channel Volume	1,045	1,100	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.	10,868	C
Heat transfer area	0,969	m ²
Heat load	52,49	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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