

Plate Heat Exchanger Datasheet

Ref.: JB20140916141001

<i>Customer:</i>		<i>Contact person:</i>	
<i>Project:</i>		<i>E-mail:</i>	
<i>HEX Type:</i>	XB37H-1-30	<i>Code:</i>	004H7304
<i>Number of units:</i>		<i>Engineer:</i>	JB
		<i>Date:</i>	9/16/2014 2:10:05 PM

Calculated parameters	Unit	Side1	Side2
<i>Flow Type</i>		Counter current	
<i>Load</i>	kW	90,20	
<i>Inlet temperature</i>	°C	65,00	10,00
<i>Outlet temperature (Specified)</i>	°C	20,00	55,00
<i>Outlet temperature (Actual)</i>	°C	20,00	55,00
<i>Mass FlowRate</i>	kg/h	1728,2	1727,8
<i>Volumetric Flowrate</i>	L/min	29,3	28,7
<i>Surface margin</i>	%	16,5	
<i>LMTD</i>	K	10,00	
<i>Heat transfer coefficient (Available / Required)</i>	W/m ² -K	6701/5753	
<i>Total pressure drop</i>	kPa	14,7	13,5
<i>Pressure drop - In port</i>	kPa	0,8	0,8
<i>Port velocity</i>	m/s	1,27	1,27

Properties of fluid	Unit	Side1	Side2
<i>Fluid</i>		Water	Water
<i>Viscosity</i>	mPa-s	0,6264	0,7609
<i>Density</i>	kg/m ³	992,0	995,5
<i>Heat capacity</i>	kJ/kg-K	4,176	4,176
<i>Thermal conductivity</i>	W/m-K	0,630	0,616

Specification:	Unit	Side1	Side2
<i>HEX Type:</i>		XB37H-1-30	
<i>Number of plates:</i>	---	30	
<i>Max.number of plates in current frame:</i>	---	--	
<i>Grouping:</i>	---	1*14H/1*15H	
<i>Heat transfer area:</i>	m ²	1.57	
<i>Plate Material:</i>	---	EN1.4404	
<i>Gasket Material:</i>	---	--	
<i>Connection size:</i>	---	G 1 A (L=20mm)	
<i>Connection type:</i>	---	Thread	
<i>Frame color:</i>	---	--	
<i>Certification/Approval type:</i>	---	PED	
<i>Volume:</i>	L	0.798	0.855
<i>Weight:</i>	kg	7.40	
<i>Design Temp. (Max/Min):</i>	°C	180/-10	
<i>Design Pressure(Max):</i>	bar	25	

Accessories:

External Dimensions:			
A (mm):	525	B (mm):	119
C (mm):	479	D (mm):	72
E (mm):	53.5	F (mm):	20

Comments:

