

## Plate Heat Exchanger Datasheet

Ref.: JB20140916112925

<i>Customer:</i>		<i>Contact person:</i>	
<i>Project:</i>		<i>E-mail:</i>	
<i>HEX Type:</i>	XB20-1-16	<i>Code:</i>	004B1208
<i>Number of units:</i>		<i>Engineer:</i>	JB
		<i>Date:</i>	9/16/2014 11:29:31 AM

Calculated parameters	Unit	Side1	Side2
<i>Flow Type</i>		Counter current	
<i>Load</i>	kW	31,00	
<i>Inlet temperature</i>	°C	105,00	60,00
<i>Outlet temperature (Specified)</i>	°C	70,00	80,00
<i>Outlet temperature (Actual)</i>	°C	70,00	80,00
<i>Mass FlowRate</i>	kg/h	758,1	1332,0
<i>Volumetric Flowrate</i>	L/min	13,2	22,6
<i>Surface margin</i>	%	39,2	
<i>LMTD</i>	K	16,37	
<i>Heat transfer coefficient (Available / Required)</i>	W/m <sup>2</sup> -K	5379/3865	
<i>Total pressure drop</i>	kPa	4,7	10,9
<i>Pressure drop - In port</i>	kPa	0,0	0,1
<i>Port velocity</i>	m/s	0,29	0,50

Properties of fluid	Unit	Side1	Side2
<i>Fluid</i>		Water	Water
<i>Viscosity</i>	mPa-s	0,3261	0,4058
<i>Density</i>	kg/m <sup>3</sup>	967,9	978,6
<i>Heat capacity</i>	kJ/kg-K	4,202	4,188
<i>Thermal conductivity</i>	W/m-K	0,672	0,659

Specification:	Unit	Side1	Side2
<i>HEX Type:</i>		XB20-1-16	
<i>Number of plates:</i>	---	16	
<i>Max.number of plates in current frame:</i>	---	--	
<i>Grouping:</i>	---	1*7/1*8	
<i>Heat transfer area:</i>	m <sup>2</sup>	0.49	
<i>Plate Material:</i>	---	EN1.4404	
<i>Gasket Material:</i>	---	--	
<i>Connection size:</i>	---	G 1 A	
<i>Connection type:</i>	---	Thread	
<i>Frame color:</i>	---	--	
<i>Certification/Approval type:</i>	---	PED	
<i>Volume:</i>	L	0.420	0.480
<i>Weight:</i>	kg	3.84	
<i>Design Temp. (Max/Min):</i>	°C	180/-10	
<i>Design Pressure(Max):</i>	bar	25	

Accessories:

External Dimensions:			
A (mm):	338	B (mm):	118
C (mm):	285	D (mm):	65
E (mm):	48.6	F (mm):	50

Comments:

