

Plate Heat Exchanger Datasheet

Ref.: R.M.20161007115900

Customer:		Contact person:	
Project:		E-mail:	
HEX Type:	XB12L-1-36 G 5/4 (25mm)	Engineer:	R.M.
Unit:	1 (Parallel)	Code:	004H7530
		Date:	7.10.2016 11:59:04

Calculated parameters	Unit	Side1	Side2
Flow Type		Counter current	
Load	kW		63,00
Inlet temperature	°C	75,00	35,00
Outlet temperature (Specified)	°C	40,00	55,00
Outlet temperature (Actual)	°C	39,99	--
Mass FlowRate (Actual)	kg/h	1548,5	2713,9
Volumetric Flowrate (Actual)	L/min	26,451	45,471
Surface margin	%		0,0
LMTD	K		10,81
HTC(Available / Required)	W/m ² -K		6122/6121
Total pressure drop	kPa	2,90	7,62
Pressure drop - In port	kPa	0,14	0,44
Port velocity	m/s	0,54	0,95

Properties of fluid	Unit	Side1	Side2
Fluid		Water	Water
Dynamic viscosity	mPa-s	0,4865	0,5987
Density	kg/m ³	985,3	991,0
Heat capacity	kJ/kg-K	4,182	4,176
Thermal conductivity	W/m-K	0,647	0,633

Specification:	Unit	Side1	Side2
HEX Type:		XB12L-1-36 G 5/4 (25mm)	
Number of plates:	---	36	
Max.number of plates in current frame:	---	--	
Grouping:	---	1*17L/1*18L	
Heat transfer area:	m ²	0,95	
Plate Material:	---	EN1.4404(AISI316L)	
Gasket Material:	---	--	
Connection size:	---	G 5/4	
Connection type:	---	Thread	
Frame color:	---	--	
Certification/Approval type:	---	PED Art 3.3	
Volume:	L	0,714	0,756
Weight:	kg		4,27
Design Temp. (Max/Min):	°C		75/35
Design Pressure(Max):	bar		25

Accessories:

External Dimensions:

A (mm):	289	B (mm):	118
C (mm):	234	D (mm):	63
E (mm):	73	F (mm):	25

Warning: Dimensions are for reference purposes only and are not to be used for construction.

Comments:

Copper brazed stainless steel heat exchanger designed and configured for district heating systems, district cooling and other heating applications. The brazed heat exchanger features our new MICRO PLATES™, which enable heat to be transferred more effectively than in any previous model. Energy and cost savings, Longer life time, Corrosion-resistant design, Compact Design.

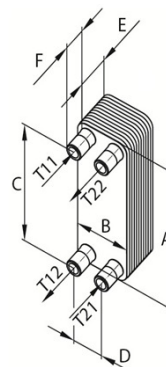


Plate Heat Exchanger Datasheet

Ref.: R.M.20161007103758

<i>Customer:</i>		<i>Contact person:</i>	
<i>Project:</i>		<i>E-mail:</i>	
<i>HEX Type:</i>	XB59M-1-40	<i>Engineer:</i>	R.M.
<i>Unit:</i>	1 (Parallel)	<i>Code:</i>	004B1922
		<i>Date:</i>	7.10.2016 10:38:06

Calculated parameters	Unit	Side1	Side2
<i>Flow Type</i>		Counter current	
<i>Load</i>	kW		160,00
<i>Inlet temperature</i>	°C	60,00	10,00
<i>Outlet temperature (Specified)</i>	°C	20,00	55,00
<i>Outlet temperature (Actual)</i>	°C	19,64	--
<i>Mass FlowRate (Actual)</i>	kg/h	3413,6	3059,0
<i>Volumetric Flowrate (Actual)</i>	L/min	57,815	50,971
<i>Surface margin</i>	%		0,0
<i>LMTD</i>	K		7,07
<i>HTC(Available / Required)</i>	W/m ² -K		5957/5957
<i>Total pressure drop</i>	kPa	6,38	4,78
<i>Pressure drop - In port</i>	kPa	0,08	0,06
<i>Port velocity</i>	m/s	0,53	0,47

Properties of fluid	Unit	Side1	Side2
<i>Fluid</i>		Water	Water
<i>Dynamic viscosity</i>	mPa-s	0,6584	0,7609
<i>Density</i>	kg/m ³	993,0	995,5
<i>Heat capacity</i>	kJ/kg-K	4,175	4,176
<i>Thermal conductivity</i>	W/m-K	0,627	0,616

Specification:	Unit	Side1	Side2
<i>HEX Type:</i>		XB59M-1-40	
<i>Number of plates:</i>	---	40	
<i>Max.number of plates in current frame:</i>	---	--	
<i>Grouping:</i>	---	1*19M/1*20M	
<i>Heat transfer area:</i>	m ²	3,8	
<i>Plate Material:</i>	---	EN1.4404(AISI316L)	
<i>Gasket Material:</i>	---	--	
<i>Connection size:</i>	---	G 2	
<i>Connection type:</i>	---	Thread	
<i>Frame color:</i>	---	--	
<i>Certification/Approval type:</i>	---	PED Art 3.3	
<i>Volume:</i>	L	3,04	3,2
<i>Weight:</i>	kg		16,3
<i>Design Temp. (Max/Min):</i>	°C		60/10
<i>Design Pressure(Max):</i>	bar		25

Accessories:

External Dimensions:

A (mm):	613	B (mm):	186
C (mm):	519	D (mm):	92
E (mm):	81	F (mm):	52

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Comments:

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