



Plate Heat Exchanger Datasheet



Danfoss Hexact(v5.3.19)

Ref.: AP20200907113040

Customer:		Contact person:	
Project: SC-2, Silikāta iela 8a, Daugavpils		E-mail:	
HEX Type:	XB37H-1-70 G 1 (20mm) CU	Engineer:	AP
Unit:	1 (Parallel)	Code:	004H7309
		Date:	07.09.2020 11:30:57

Calculated parameters	Unit	Side1	Side2
Flow Type		Counter current	
Load	kW	110,00	
Inlet temperature	°C	95,00	60,00
Outlet temperature (Specified)	°C	65,00	90,00
Outlet temperature (Actual)	°C	--	--
Mass Flowrate	kg/h	3144,3	3147,3
Volumetric Flowrate	L/min	54,433	53,305
Total pressure drop	kPa	9,99	9,62
Pressure drop - In port	kPa	2,33	2,32
Total area	m ²	3,81	
Surface margin	%	22,4	
LMTD	K	5,00	
HTC(Available / Required)	W/m ² -K	7069,9/5777,3	
Port velocity	m/s	2,16	2,16

Properties of fluid	Unit	Side1	Side2
Fluid		Water	
Dynamic viscosity	mPa-s	0,3566	0,3798
Density	kg/m ³	972,7	975,7
Heat capacity	kJ/kg-K	4,196	4,192
Thermal conductivity	W/m-K	0,667	0,663

Specification:	Unit	Side1	Side2
HEX Type:		XB37H-1-70 G 1 (20mm) CU	
Number of plates:	---	70	
Max.number of plates in current frame:	---	--	
Grouping:	---	1*34H/1*35H	
Plate Material:	---	EN1.4404(AISI316L)	
Gasket / Brazing Material:	---	CU	
Connection size:	---	G 1	
Connection type:	---	Thread	
Frame color:	---	--	
Certification/Approval type:	---	PED Art 4.3	
Volume:	L	1,938	1,995
Weight:	kg	13,8	
Design Temp. (Max/Min):	°C	95/60	
Design Pressure(Max):	bar	25	

Items:		
Code	Pcs	Components
004H7309	1	XB37H-1-70 G 1 (20mm) CU

External Dimensions:			
A (mm):	525	B (mm):	119
C (mm):	479	D (mm):	72
E (mm):	111,5	F (mm):	20
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.

