



## Plate Heat Exchanger Datasheet



Danfoss Hexact(v5.3.19)

Ref.: AP20200907113200

Customer:		Contact person:	
Project: SC-2, Silikāta iela 8a, Daugavpils		E-mail:	
HEX Type:	XB12M-1-90 G 5/4 (25mm)	Engineer:	AP
Unit:	1 (Parallel)	Code:	004H7551
		Date:	07.09.2020 11:32:07

Calculated parameters	Unit	Side1	Side2
Flow Type		Counter current	
Load	kW	130,00	
Inlet temperature	°C	95,00	60,00
Outlet temperature (Specified)	°C	65,00	80,00
Outlet temperature (Actual)	°C	--	--
Mass Flowrate	kg/h	3716,0	5585,6
Volumetric Flowrate	L/min	64,330	94,602
Total pressure drop	kPa	5,51	11,73
Pressure drop - In port	kPa	0,83	1,87
Total area	m <sup>2</sup>	2,46	
Surface margin	%	23,3	
LMTD	K	9,01	
HTC(Available / Required)	W/m <sup>2</sup> -K	7216,9/5852,5	
Port velocity	m/s	1,32	1,97

Properties of fluid	Unit	Side1	Side2
Fluid		Water	Water
Dynamic viscosity	mPa-s	0,3566	0,4058
Density	kg/m <sup>3</sup>	972,7	978,6
Heat capacity	kJ/kg-K	4,196	4,188
Thermal conductivity	W/m-K	0,667	0,659

Specification:	Unit	Side1	Side2
HEX Type:		XB12M-1-90 G 5/4 (25mm)	
Number of plates:	---	90	
Max.number of plates in current frame:	---	--	
Grouping:	---	1*44M/1*45M	
Plate Material:	---	EN1.4404(AISI316L)	
Gasket / Brazing Material:	---	CU	
Connection size:	---	G 5/4	
Connection type:	---	Thread	
Frame color:	---	--	
Certification/Approval type:	---	PED Art 4.3	
Volume:	L	1,408	1,44
Weight:	kg	8,37	
Design Temp. (Max/Min):	°C	95/60	
Design Pressure(Max):	bar	25	

Items:		
Code	Pcs	Components
004H7551	1	XB12M-1-90 G 5/4 (25mm)

External Dimensions:			
A (mm):	289	B (mm):	118
C (mm):	234	D (mm):	63
E (mm):	136	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.

