



Plate Heat Exchanger Datasheet



Danfoss Hexact(v5.2.8)

Ref.: AP20190430101900

Customer:		Contact person:	
Project:		E-mail:	
HEX Type:	XB52M-1-50	Engineer:	AP
Unit:	1 (Parallel)	Code:	004H4525
		Date:	30.04.2019 10:19:04

Calculated parameters	Unit	Side1	Side2
Flow Type		Counter current	
Load	kW		279,40
Inlet temperature	°C	95,00	60,00
Outlet temperature (Specified)	°C	70,00	80,00
Outlet temperature (Actual)	°C	--	--
Mass FlowRate	kg/h	9580,6	12004,8
Volumetric Flowrate	L/min	165,855	203,321
Total pressure drop	kPa	13,27	19,04
Pressure drop - In port	kPa	0,55	0,85
Total area	m ²		5,04
Surface margin	%		74,0
LMTD	K		12,33
HTC(Available / Required)	W/m ² -K		7820,2/4495,5
Port velocity	m/s	1,29	1,60

Properties of fluid	Unit	Side1	Side2
Fluid		Water	Water
Dynamic viscosity	mPa-s	0,3459	0,4058
Density	kg/m ³	971,1	978,6
Heat capacity	kJ/kg-K	4,198	4,188
Thermal conductivity	W/m-K	0,669	0,659

Specification:	Unit	Side1	Side2
HEX Type:			XB52M-1-50
Number of plates:	---		50
Max.number of plates in current frame:	---		--
Grouping:	---		1*24M/1*25M
Plate Material:	---		EN1.4404(AISI316L)
Gasket / Brazing Material:	---		CU
Connection size:	---		G 2
Connection type:	---		Thread
Frame color:	---		--
Certification/Approval type:	---		PED Art 4.3
Volume:	L	3,792	3,95
Weight:	kg		20,89
Design Temp. (Max/Min):	°C		95/60
Design Pressure(Max):	bar		25

Items:		
Code	Pcs	Components
004H4525	1	XB52M-1-50

External Dimensions:			
A (mm):	466	B (mm):	256
C (mm):	379	D (mm):	170
E (mm):	105,1	F (mm):	50
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.

