Plate Heat Exchanger Data Sheet Ref.: DS61508/1 (B)

Duty:			
Company:			
Project:		Item No:	
PHE Type:	N35	Engineer:	DS
Quotation No:		Date:	2012.Apr.13 10.28

Process Data		Hot	Cold
Fluid		WATER	WATER
Mass Flow Rate	kg/h	21650	59844
Volume Flow Rate	l/h	22956	60866
Inlet Temperature	℃	120,0	60,0
Outlet Temperature, Duty	℃	65,0	80,0
Pressure Drop, calculated	bar	0,03	0,20
Heat Exchange Rate, Duty	kW	1392,00	
Design (Duty) HTC	W/℃ m^2	3474,9	
Clean HTC	W/℃ m^2	5676,9	
% Difference in HTC		63,4%	
Fluid Volume in PHE	l	32,6	33,5

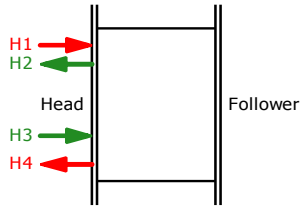
Fluid Properties		Hot	Cold
Density	kg/(m^3)	963,6	977,8
Specific Heat Capacity	kJ/kg ℃	4,208	4,187
Thermal Conductivity	W/m ℃	0,677	0,662
Inlet Viscosity	mPa s	0,23	0,47
Outlet Viscosity	mPa s	0,43	0,36

Plate Heat Exchanger Specifications					
PHE Type		N35			
Frame Type / Size		MG-16H/2. Painted, max. 73 plates			
Dimensions (H*W*L)	mm	1358x450x596			
Total Number of Plates		70			
Total Active Area	m^2	23,80			
Hot Side Flow Arrangement		1*34			
Cold Side Flow Arrangement		1*35			
Plate Material		0.5 mm SS AISI 304 Paraclip			
Gasket Material		EPDM per. (FDA) Paraclip			
Hot Side Connection - Inlet	H1	NW80 Flange (Studded) Carbon Steel ND10/16 DIN 2501			
Hot Side Connection - Outlet	H4	NW80 Flange (Studded) Carbon Steel ND10/16 DIN 2501			
Cold Side Connection - Inlet	H3	NW80 Flange (Studded) Carbon Steel ND10/16 DIN 2501			
Cold Side Connection - Outlet	H2	NW80 Flange (Studded) Carbon Steel ND10/16 DIN 2501			
Design Code		PED Marked with CE			
Certificate					
Design Temperature	℃	Max.	150	Min.	0
Design Pressure	bar		16,0		
Test Pressure	bar	Balanced	24,9	Differential	24,9
Mass	kg	Flooded	515	Empty	451
Approx. Shipping Mass & Volume				kg	m^3

Accessories

Manual in English (2); Cover Letter in English (1); Name plate in English (1); Installation and PA drawing(s) (2); APV std blue (RAL 5010) (1); APV std. paint (0978-6) (1)

Connection Placement



Remarks

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