

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

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

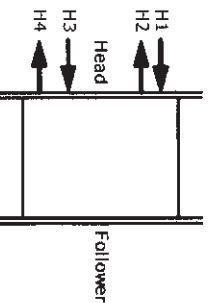
Fluid Properties	Hot	Cold
Density	kg/(m <sup>3</sup> )	963,6
Specific Heat Capacity	kJ/kg °C	4,208
Thermal Conductivity	W/m °C	0,677
Inlet Viscosity	mPa s	0,23
Outlet Viscosity	mPa s	0,43
		0,36

**Plate Heat Exchanger Specifications**

PHE Type	N35	
Frame Type / Size	MG-16H/2, Painted, max 73 plates	
Dimensions (H*W*L)	mm	
Total Number of Plates	70	
Total Active Area	m <sup>2</sup>	23,80
Hot Side Flow Arrangement	1*34	
Cold Side Flow Arrangement	1*35	
Plate Material	0,5 mm SS AISI 304 Paracip	
Gasket Material	EPDM per. (FDA) Paracip	
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	°C	Max. 150
Design Pressure	bar	16,0
Test Pressure	bar	Balanced 24,9
Mass	kg	Flooded 515
Approx. Shipping Mass & Volume		Empty 451
		kg m <sup>3</sup>

**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**

