

PROCESNA SPECIFIKACIJA – IZMENJIVAČI TOPLOTE E-230 i E-240

Heat Exchanger Specification Sheet

1 Company:									
2 Location:									
3 Service of Unit:					Our Reference:				
4 Item No.:					Your Reference:				
5 Date:		Rev No.:		Job No.:					
6 Size	438 /	4050 mm	Type	AES	Hor	Connected in	1	parallel	1 series
7 Surf/unit(eff.)	49,6 m ²		Shells/unit	1	Surf/shell (eff.)		49,6 m ²		
8 PERFORMANCE OF ONE UNIT									
9 Fluid allocation			Shell Side			Tube Side			
10 FluidName			Hot Water In->Hot Water Out			Fluid In->Fluid Out			
11 Fluid quantity, Total			kg/h			15677			
12 Vapor (In/Out)			kg/h			0			
13 Liquid			kg/h			15677			
14 Noncondensable			kg/h			0			
15 Temperature (In/Out)			°C			90			
16 Bubble / Dew point			F			/			
17 Density (Vap / Liq)			kg/m ³			/ 956,35			
18 Viscosity			cp			/ 0,3113			
19 Molecular wt, Vap						20,42			
20 Molecular wt, NC						21,26			
21 Specific heat			kJ/(kg-K)			/ 4,375			
22 Thermal conductivity			W/(m-K)			/ 0,6759			
23 Latent heat			kJ/kg			/ 399,853			
24 Pressure (abs)			kPa			401,325			
25 Velocity (Mean/Max)			m/s			0,1			
26 Pressure drop, allow./calc.			kPa			5			
27 Fouling resistance (min)			m ² -K/W			0,0003			
28 Heat exchanged			690,8 kW			MTD corrected			
29 Transfer rate, Service			443,5 Dirty			443,4 Clean			
30						844,2 W/(m ² -K)			
31 CONSTRUCTION OF ONE SHELL									
32 Design/vac/test pressure:g			kPa			500 /			
33 Design temperature / MDMT			°C			125 /			
34 Number passes per shell						1			
35 Corrosion allowance			mm			3,18			
36 Connections			In mm			1 76,2 /			
37 Size/rating			Out			1 76,2 /			
38 Nominal			Intermediate			/			
39 Tube No.			216			OD 19,05			
40 Tubetype			Plain			#/m			
41 Shell			Carbon Steel			ID 438,2			
42 Channel or bonnet			Carbon Steel			OD 457,2			
43 Tubesheet-stationary			Carbon Steel						
44 Floating head cover			Carbon Steel						
45 Baffle-cross			Carbon St			Type			
46 Baffle-long						Seal type			
47 Supportstube			UBend			0			
48 Bypass seal			Tube-tubesheet joint			Exp. 2 grv			
49 Expansion joint						Type			
50 RhoV2-Inlet nozzle			872			Bundle entrance			
51 Gaskets - Shell side			Flat Metal Jacket Fibe			Tube Side			
52 Floating head			Flat Metal Jacket Fibe						
53 Code requirements			ASME Code Sec VIII Div 1			TEMA class			
54 Weight/Shell			1745			Filled with water			
55 Remarks									
56									
57									
58									

