

HEAT EXCHANGER SPECIFICATION SHEET

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SI Units

Customer	Job No.
Address	Reference No.
Plant Location	Proposal No.
Service of Unit	Date 12/18/2020 Rev
Size 2310.00 x 5499.86 mm	Type CEU Vert. Connected In 1 Parallel 1 Series
Surf/Unit (Gross/Eff) 2107.99 / 1995.76 m2	Shell/Unit 1 Surf/Shell (Gross/Eff) 2107.99 / 1995.76 m2

PERFORMANCE OF ONE UNIT

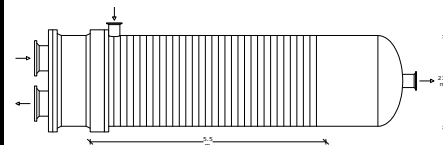
Fluid Allocation	Shell Side	Tube Side
Fluid Name	Water	Water
Fluid Quantity, Total kg/hr	280801	2339900
Vapor (In/Out)	280801	2339900
Liquid	280801	2339900
Steam	280801	2339900
Water	280801	2339900
Noncondensables		
Temperature (In/Out) C	200.00	337.00
Specific Gravity	0.8691	0.6254
Viscosity mN-s/m2	0.1356	0.0724
Molecular Weight, Vapor		
Molecular Weight, Noncondensables		
Specific Heat kJ/kg-C	4.4639	5.2484
Thermal Conductivity W/m-C	0.6682	0.0637
Latent Heat kJ/kg	1511.59	1513.14
Inlet Pressure kPa	6900.10	15000.2
Velocity m/s	0.40	1.55
Pressure Drop, Allow/Calc kPa	24.080	20.194
Fouling Resistance (min) m2-K/W	0.000090	0.000090

Heat Exchanged W	150304301	MTD (Corrected)	35.7 C
Transfer Rate, Service	2106.49 W/m2-K	Clean	3581.43 W/m2-K
		Actual	2115.29 W/m2-K

CONSTRUCTION OF ONE SHELL

Sketch (Bundle/Nozzle Orientation)

	Shell Side	Tube Side
Design/Test Pressure kPaG	6798.78 /	14898.9 /
Design Temperature C	337.00	337.00
No Passes per Shell	1	2
Corrosion Allowance mm		
Connections	In mm	1 @ 258.877
Size & Rating	Out mm	1 @ 641.351
	Intermediate	1 @ 641.351
	@	@



Tube No.	2819U	OD	19.050 mm	Thk(Avg)	1.245 mm	Length	5.500 m	Pitch	25.399 mm	Layout	90
Tube Type	Plain					Material	INCONEL (76 NI, 16 CR, 8 FE)				
Shell	ID 2310.00 mm	OD	mm			Shell Cover					
Channel or Bonnet						Channel Cover					
Tubesheet-Stationary						Tubesheet-Floating					
Floating Head Cover						Impingement Plate	None				
Baffles-Cross	Type	RODBAFFLE	%Cut (Diam)			Spacing(c/c)	152.400	Inlet	mm		
Baffles-Long			Seal Type								
Supports-Tube			U-Bend			Type					
Bypass Seal Arrangement			Tube-Tubesheet Joint								
Expansion Joint			Type								
Rho-V2-Inlet Nozzle	2527.99 kg/m-s2		Bundle Entrance			Bundle Exit		kg/m-s2			
Gaskets-Shell Side			Tube Side								
-Floating Head											
Code Requirements						TEMA Class					
Weight/Shell	68263.9	Filled with Water	106265			Bundle	32156.6	kg			

Remarks:

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