



Major references - Heat Exchangers

S No	Client	TEMA Type	Qty (Nos)	Design Pressure		Operating Temp (Deg.)		Fluid		Material of construction			Shell Detail		Tube Sheet Thk (mm)	Tube OD x Thk(mm) and No of tubes	Empty Weight (Kgs)
				Shell (Kg/cm ²)	Tube (Kg/cm ²)	Shell	Tube	Shell	Tube	Shell	Tube	Tube sheet	ID-TL to TL	TEMA CL			
1	EQUATE	BEU	1	34.1	7	100	195	Propylene	LP Steam	SA 516Gr60	SA789 UNS318 03	SA 266 CL4	610-1600	R	77	19 x 1.65 100 Nos.	1200
2	EQUATE	AEM	1	34.1	7	180	70	Propylene	Cooling Water	SA 516Gr60	SA789 UNS318 03	SA 266 CL4	550-3000	R	40	19 x 1.65 296 Nos.	2950
3	EQUATE	BEU	1	31.6	7	200	195	Propylene	LP Steam	SA 516Gr60	SA789 UNS318 03	SA 266 CL4	610-1600	R	74	19 x 1.65 94 Nos.	1050
4	EQUATE	BEM	1	7	62	70	180	Cooling water	Hydrocarbon	SA 106 GrB	SA789 UNS318 03	SA 266 CL4	247-2000	R	49	19 x 1.65 40 Nos.	650
5	EQUATE	BKU	1	26	7	80	195	Propylene	LP Steam	SA 516Gr60	SA789 UNS318 03	SA 350 LF2 CL 1	400/900-5060	R	48	19.05 x 1.65 59 Nos.	3750
6	TKSC (DOW+PIC)	H-BEU	1	20.0/F.V	10.5/F.V	158.8/56	40/50	Blow down	CTW	SA 106 GrB N	SA179	SA 266 CI 2 N	210 - 2438	B	57	19.05 x 2.77 17Nos	675
7	TKSC (DOW+PIC)	H-BEU	1	20.0/F.V	10.5/F.V	158.8/56	40/50	Blow down	CTW	SA 106 GrB N	SA179	SA 266 CI 2 N	260 - 2300	B	57	19.05 x 2.77 32Nos	735
8	TKSC (DOW+PIC)	H-BEU	1	10.5/F.V	11.5/F.V	148/56	40/50	Blow down	Cooling water	SA 106 GrB N	SA179	SA 266 CI 2 N	215 - 2700	B	57	19.05 x 2.77 18Nos	530
9	TKSC (DOW+PIC)	H-BEU	1	14.0/F.V	10.8/F.V	86/110	165.3/150	Fresh B2	EB	SA 106 GrB N	SA179	SA 266 CI 2 N	337 - 2438	B	57	19.05 x 2.77 60Nos	985
10	TKSC (DOW+PIC)	H-BEU	1	57.0/F.V	44.0/F.V	385/252	229/243	HP Steam	PEB Residue	SA 106 GrB N	SA179	SA 266 CI 2 N	456 - 5200	B	96	19.05 x 2.77 111Nos	3800
11	TKSC (DOW+PIC)	H-BEU	1	5.0/F.V	11.5/F.V	141/100	40/50	PEP & NCS	Cooling water	SA 106 GrB N	SA179	SA 266 CI 2 N	591 - 1400	B	67	19.05 x 2.77 199Nos	2200



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				Shell (Kg/cm ²)	Tube (Kg/cm ²)	Shell	Tube	Shell	Tube	Shell	Tube	Tube sheet	ID-TL to TL	TEMA CL			
12	TKSC (DOW+PIC)	H-BEU	1	57.0/F.V	58.0/F.V	385/252	170/240	HP Steam	Benzene & PEB	SA 106 GrB N	SA179	SA 266 Cl 2 N	364 - 6096	B	84	19.05 x 2.77 68Nos	2700
13	TKSC (DOW+PIC)	H-BEU	1	10.5/F.V	10.54/F.V	126.38/126.3	49.6/54.6	LP Steam	Crude feed	SA 106 GrB N	SA179	SA 266 Cl 2 N	310 - 1000	B	47	25.4 x 2.77 35Nos	480
14	TKSC (DOW+PIC)	H-BEU	1	20.0/F.V	11.5/F.V	197.4/197.6	38/160	MP Steam	Vent gas Nitrogen	SA 106 GrB N	SA179	SA 266 Cl 2 N	375 - 1500	B	62	25.4 x 3.4 36Nos	2080
15	TKSC (DOW+PIC)	H-BEU	1	0.51/F.V	10.5/F.V	80.3/50	38/43	Process fluid	CCCW	SA 516Gr70N	SA179	SA 266 Cl 2 N	650 - 6120	B	66	19.05 x 2.77 358Nos	6000
16	TKSC (DOW+PIC)	V-BEU	1	16.9/F.V	0.5/F.V	151.18/151.1	126.6/137.8	Steam	C-3301 BTMS Strear	SA 516Gr70N	SA179	SA 266 Cl 2 N	900 - 4200	B	61	38.1 x 2.77 266Nos	8070
17	TKSC (DOW+PIC)	H-BEU	1	12.0/F.V	10.0/F.V	0/10	50/20	Propglycol water	Cooled SM Product	SA 516Gr70N	SA179	SA 266 Cl 2 N	500 - 2250	B	62	19.05 x 2.77 143Nos	1880
18	TKSC (DOW+PIC)	H-BEU	1	14.9/F.V	8.15/F.V	50/10	0.1/4.9	Hydrocarbon vent	Propylene glycole water	SA 516Gr70N	SA213 TP 304L	SA 266 Cl 2 N	310 - 4300	B	50	19.05 x 2.77 84Nos	1600
19	TKSC (DOW+PIC)	H-BEU	1	10.2/F.V	11.5/F.V	78.11/72.76	38/48	H ₂ O Benzene	C.C Cooling water	SA 516Gr70N	SA179	SA 266 Cl 2 N	660 - 2438	B	74	19.05 x 2.77 195Nos	2610
20	TKSC (DOW+PIC)	V-BEU	1	20.0/F.V	10.5/F.V	200/250	45/50	Steam	Vent gas Nitrogen	SA 516Gr70N	SA179	SA 266 Cl 2 N	460 - 4000	B	56	25.4 x 2.108 135Nos	1580
21	TKSC (DOW+PIC)	H-BEU	1	20.0/F.V	11.0/F.V	158.8/50	3/48	Process	Cooling tower Water	SA 106 GrB N	SA179	SA 266 Cl 2 N	300 - 2075	B	57	25.4 x 2.108 22Nos	530
22	TKSC (DOW+PIC)	V-BEU	1	8.1/F.V	10.7/F.V	0/10	49.94/10.66	Glycol Water	Uncondensate strpper/OVHD	SA 106 GrB N	SA179	SA 266 Cl 2 N	370 - 1450	B	49	19.05 x 2.77 90Nos	900



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				Shell (Kg/cm ²)	Tube (Kg/cm ²)	Shell	Tube	Shell	Tube	Shell	Tube	Tube sheet	ID-TL to TL	TEMA CL			
23	TKSC (DOW+PIC)	H-BEU	1	10.5/F.V	11.5/F.V	60.5/50	38/48	Waste water	C.C Cooling water	SA 106 GrB N	SA179	SA 266 Cl 2 N	390 - 6230	B	62	19.05 x 2.77 84Nos	3010
24	TKSC (DOW+PIC)	H-BEU	1	20.9/F.V	11.7/0.175	158.8/50	38/48	Blow down	Closed circuit cooling water	SA 106 GrB N	SA179	SA 266 Cl 2 N	400 - 1850	B	64	19.05 x 2.77 83Nos	1310
25	UOP/KPPC	H-AEU	2	28.1/F.V	21.7/0.175	81.1/54.44	40.0/45.56	El-1516-150	Water	SA 516Gr70N	SA179	SA 266 Cl 2 N	530 - 5000	R	82	19.05 x 2.77 156Nos	3450
26	UOP/KPPC	H-BEM	2	44.5/F.V	15.0/F.V	1.12/39.6	45.0/15.0	Rich Oil	Hydrocarbon & H ₂	SA 516Gr70N	SA179	SA 266 Cl 2 N	740 - 6000	R	67	19.05 x 2.77 741Nos	7560
27	UOP/KPPC	H-BEM	1	44.5/F.V	34.0/F.V	39.48/47.27	53.22/44.89	Rich Oil	Refrigerant	SA 516Gr70N	SA179	SA 266 Cl 2 N	890 - 6000	R	83	19.05 x 2.77 1118Nos	1E+05
28	UOP/KPPC	H-BEM	1	44.5/F.V	13.5/F.V	1.12/38.89	45.0/15.0	Rich Oil	Hydrocarbon & H ₂	SA 516Gr70N	SA179	SA 266 Cl 2 N	585 - 6000	R	62	19.05 x 2.77 467Nos	4940
29	UOP/KPPC	H-BEM	1	44.5/F.V	44.5/F.V	0/37.0	45.0/29.0	Lean net gas	Rich net gas	SA 516Gr70N	SA179	SA 266 Cl 2 N	660 - 5000	R	81	19.05 x 2.77 550Nos	6120
30	UOP/KPPC	H-BEM	2	44.5/F.V	45.5/F.V	1.11/39.45	46.07/23.33	Rich Oil	Lean Oil	SA 516Gr70N	SA179	SA 266 Cl 2 N	477.8 - 6000	R	65	19.05 x 2.77 296Nos	3810
31	UOP/KPPC	H-AEU	1	21.1/F.V	17.8/0.175	69/53	0.82	Refrigerant	Cooling Water	SA 516Gr70N	SA179	SA 266 Cl 2 N	1570 - 6000	R	164	19.05 x 2.77 1528Nos	35250
32	UOP/KPPC	H-BXU	1	21.1/F.V	44.5/F.V	-3/-3	34/0	Refrigerant	Hydrocarbon & H ₂	SA 516Gr70N	High Flux	SA 266 Cl 2 N	1270 - 5000	R	165	19.05 x 2.77 684Nos	17590
33	EQUATE	V-BEM	1	10.5/F.V	10.7/F.V	40/49.8	56/54.2	Cooling water	Iso Pentane or Hexane-1	SA 106 GrB	SA179	SA 266 Cl 2	300 - 3050	B	51	19.05 x 2.11 80Nos	1000



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				Shell (Kg/cm ²)	Tube (Kg/cm ²)	Shell	Tube	Shell	Tube	Shell	Tube	Tube sheet	ID-TL to TL	TEMA CL			
34	EQUATE	H-BEM	1	10.7/F.V	10.5/F.V	101.7/45	40/45	Hexane	Cooling water	SA 106 GrB	SA179	SA 266 Cl 2	200 - 3050	B	57	15.88 x 2.108 40Nos	450
35	EQUATE	H-BEM	1	10.7/F.V	10.5/F.V	101.7/101.7	154.3/151.7	Hexane	Steam	SA 106 GrB	SA179	SA 266 Cl 2	300 - 910	B	68	19.05 x 2.77 6Nos	208
36	PEERLESS	NEN	12	37.93	74	48.9/120.2	227.1/90	Fuel gas	BFW	SA 106 GrB	SA179	SA 266 Cl 2	406 - 6000	R	60	19.05 x 2.77 123Nos	4500