



**DATA SHEET**  
**NIROU CHLOR COMPANY**

ITEM: AE-1721

DESC: AIR COOLER

DATA SHEET NO. :

1	Plant CAUSTIC CONCENTRATION	Unit 17	Item AE-1722
2	Ref. Dwg. D-281404	To be supplied by CONTRACTOR	
3	Quantity 1	Connected in	Name Air Cooler
4	Type	(Horiz./Vert.)	Service Liquefaction of Superheated Steam
5	Surface/Shell *	m <sup>2</sup> Shells/Unit	Surface/Unit m <sup>2</sup>
<b>PERFORMANCE OF ONE UNIT</b>			
7		Hot Side	Cold Side
8		INLET	OUTLET
9	Fluid	Steam (1)	Condensate (1)
10	Total fluid	3100	3100
11	Vapor	-	-
12	Liquid	-	-
13	Steam	3100	-
14	Non-condensable	-	-
15	Condensed fluid	-	3100
16	Density	0.366	990
17	Viscosity	0.021	0.583
18	Molecular weight	18	18
19	Specific heat	0.483	1.03
20	Thermal conductivity	0.046	0.639
21	Latent heat	2260	2260
22	Operation temperature	320	60
23	Max. allowable pressure	1	-
24	No. passes		*
25	Velocity		*
26	Allowable Pressure drop	*	*
27	Fouling resistance	0.0001	*
28	Heat exchange 2500 kW	LMTD: * °C	
29	overall coefficient	clean: *	service: *
30	<b>DESIGN DATA</b>		
31	Design pressure	4	*
32	Test pressure	6	*
33	Design temperature	350	*
34	<b>CONSTRUCTION DATA</b>		
35		PROCESS SIDE	UTILITY SIDE
36	Material	Carbon Steel	POS.
37			
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41			
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43			
44	Code required	MANUFACTURER STANDARD	
45			
46	Air Conditions:	Altitude 1760 m.a.s.l	
47		Ambient temperature min. / max. -17 / +45 C	
48		Humidity of air 60%	
49		Barometric pressure 0.83 bar abs	
50			
51			
	REMARKS	(1) caustic content: 20 ppm	
		* TO BE DEFINED BY SUPPLIER	
Made by M. MORADI Date		Approved by	Date
		Code No.	Sheet 1 of 1