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2025

业主编号：2025012-43-TM-ITB-0001

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1.1

1.2 2025 43-E-251

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2.1

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SG 21-2016
GB/T 150.1 150.4
GB/T 151
GB/T 700
GB/T 713
GB/T 1804
GB/T 1591
GB/T 2054
GB/T 3274
GB/T 3280
GB/T 3621
GB/T 3624
GB/T 3625
GB/T 4237
GB/T 8163
GB/T 9948

GB/T 14845
GB/T 14976
GB/T 24511
HG/T 20584
HG/T 20592 20614 PN
HG/T 20615 20635 Class
JB 4732 - 2005
JB/T 4711
JB/T 4736
NB/T 47004
NB/T 47008
NB/T 47009
NB/T 47010
NB/T 47013
NB/T 47014
NB/T 47015
NB/T 47016
NB/T 47018
SH/T 3075

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3.1

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43-E-251

01EN25015D-0001-TP-04-0001

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5.1

5.1.1

a)

b)

c)

5.1.2

a)
b)
c)

5.1.3

a)
b)

5.2

5.2.1

a)
b)
c)
d)
e)
f)
g)

5.2.2

a)

b)

c)

d)

e)

f)

g)

5.2.3

5.2.4

a)

b)

6

6.1

a)
b)
c)
d)

6.2

a)
b)

6.3

c)
d)
e)

7.2.2

a)
b) 7.2.2
c) 2 2

7.3

a)

b) 20%
c)
d)
e)
b
f) NB/T47004 7.1 6
≤ ±0.10mm
g)
h) GB/T1804 m
c

7.4

NB/T 47004 7.3

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8.3 GB/T 713 GB/T 1591

8.4 GB/T4237 GB/T24511

8.5 GB/T3280 GB/T14845 GB/T2054

8.6 GB/T3274 NB/T47008 NB/T47009 NB/T47010 GB/T3621

8.7 GB/T8163 GB/T9948 GB/T14976 GB/T3624 GB/T3625

8.8

8.9 NB/T47015 NB/T47018

8.10

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9.2 10

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10.1

10.2

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11.1

11.1.1 GB/T8923 Sa2.5

11.1.2

11.1.3

11.2

11.2.1

11.2.2

11.2.3

11.2.4

11.2.5

X X

11.2.6 “ ” “ ” “ ”

11.2.7 10

11.2.8

12

12.1

12.1.1 :

a)
b)
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e)
f)
g)
h)
i) ( )
j)
k)
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12.1.2

a)
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12.2

12.2.1

a)

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12.2.2

a)

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12.2.3 5

12.2.4 A4

12.2.5

12.2.6 7 1 6 2 PDF

12.2.7

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13.1

13.2 24 72

13.3

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14.2.2

14.2.3

14.3 ( )
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1 01EN25015D-0001-TP-04-0001

中国昆仑工程有限公司				PROJECT	2025	
				/ UNIT		
GRA. OF QUAL	A	CERT. NO.	A111007731	DOC. NO.	01EN25015D-0001-TP-04-0001	1 3
DISCIPLINE		PHASE		CLIENT NO.		SHEET OF

DATASHEET OF PLATE HEAT EXCHANGER

				1	2025-12	
DESIGNED BY	CHECKED BY	APPROVED BY	F.APPROVED BY	REVISION	DATE	DESCRIPTION

Index

SN	Tag No.	Page	Remark	SN	Tag No.	Page	Remark
1	43-E-251	3					

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中国昆仑工程有限公司	DATASHEET OF PLATE HEAT EXCHANGER	DOC. NO.	01EN25015D-0001-TP-04-0001
		3 3 SHEET OF	

	TAG.NO.		43-E-251	**Equipment Name**					Rev
	Quantity		1	Connected In			Parallel	Series	
	Area Per Unit			Area/Frame					
	Performance of One Unit								
1	Fluid Allocation			Hot Side			Cold Side		
2	Fluid Name								
3				Inlet	Outlet		Inlet	Outlet	
4	Total Fluid Flow	kg/hr		205000	205000		1039000	1039000	
5	Vapor	kg/hr							
6	Liquid	kg/hr							
7	Steam	kg/hr							
8	Water	kg/hr		205000	205000		1039000	1039000	
9	Noncondensables	kg/hr							
10	Temperature			120	70		33	43	
11	Molecular Weight Vapor								
12	Molecular Weight Noncondensables								
13	(/) Density (Liquid/Vapor)	kg/m3		943	978		995	991	
14	(/) Specific Heat (Liquid/Vapor)	kJ/kg.							
15	(/) Thermal Cond. (Liquid/Vapor)	W/m.							
16	(/) Viscosity (Liquid/Vapor)	Cp							
17	Latent Heat	kJ/kg							
18	Overall Fouling Allowance	% Excess Area					%		
19	Wall Shear Stress, Average	kPa/Velocity, mps							
20	Corrosion Allowance - Wetted Carbon Steel only	mm							
21	Inlet Pressure	kPaG		1,900	1,800		600	500	
22	/ Pressure Drop Allowed/Cal	kPa		100			100		
23	/ Design/Test Pressure	kPaG		2,900	2,900		2,900	2,900	
24	/ Design/MDMT Temperature			150/4.7	150/4.7		150/4.7	150/4.7	
25	/ No. Passes/ No. Channels Per Pass								
26	Total No.Plates			Plate Chevron Angle(s)					
27	Plate Thick	mm		Nominal Plate Gap			mm		
28	Heat Exchanged	KW		12000					
29	LMTD			Corrected LMTD					
30	Transfer Rate	W/m^2-K		Clean			Service		
	Materials of Construction								
31	Fixed and Movable Covers		Plates				316L		
32	/ Tie Bolts		Gaskets						
33	Shroud		Gasket Type						
34			Hot Side			Cold Side			
35	Connections	Material	SIZE	RATING	FACING	SIZE	RATING	FACING	
36	Inlet	A182Gr.F304		300#	WN/RF		300#	WN/RF	
37	Outlet	A182Gr.F304		300#	WN/RF		300#	WN/RF	
38	Code Requirements								
39	Frame Size: L x W x H,	mm			Max Plate Capacity	m^3			
40	Unit Weights, Dry	kg			Filled with Water	kg			

Remarks

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3 ASME B16.5 300# WN/RF ASTM A182

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