



Desiccant Air Dryer

H2 Non Purge Type

Rev.	Date	Prepared By	Checked By	Approved By
A				
B				
C				
D				

Project No	Model Name
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MECHANICAL DESIGN DATA					
1					
2	Supply Voltage	230V	Inlet Flow Rate	100~600	L/min
3	Phase	1PH	Inlet Pressure	0~15 (min.5barg)	barg
4	Frequency	50Hz	Inlet Purity(H2/O2/H2O)	98%/2,000ppm/18,000ppm	°C below
5	Control use	220V	Outlet Flow Rate	100~600	L/min
6	Fulid	Compressed H2	Outlet Pressure	0~14.5 (min.4.5barg)	barg
7	Location	Indoor	Outlet Purity(H2)	99.99	Vol %
8	Desiccant H2 Dryer Area Class	Hazardous	Max. Pressure Drop	0.5	barg
9	Control Panel Area Class	Non-Hazardous	Outlet Dew Point	2	ppm below
10			Outlet O2 Purity	2	ppm below
11			Loss Flow Rate	0	L/min
12	CONSTRUCTION				
13	Dryer Type	H2 Non Purge Type	Design Pressure	20	barg
14	Vessels Design Code	KGS	Design Temperature	250	°C
15	Vessels Corrosion Allowance	mm	Ambient Temperature	35	°C
16	Desiccant	■ Activated Alumina	Drying Time	360	min
17		■ Molecular Sieve	Reactivation Time	360	min
18	Desiccant Quantity	kg/2Tower	Heating	180	min
19	Noise	Average 85dB at 1m Building	Cooling	180	min
20	Inlet Connection	3/4" ANSI 300# SO. RF	Repressing	0	min
21	Outlet Connection	3/4" ANSI 300# SO. RF	Heater Type	Location	External
22	Material			Method	Electric.
23	- Shell / Head	STS316/STS316	Heater Power	Pre-Heater	2 kW
24	- Flange / Pipe	STS316/ STS316TP		Regener. Heater	1.5 kW
25	- Heater(Shell/Head)	STS316TP / STS316	Control Panel Power	0.5	kW
26	Dimension (L x W x H) H2 Dryer	2900 X 2100 X 2200 mm	Blower Power		kW
27	Dimension(L x W x H)Con. Panel	600 X 300 X 1200 mm	Power Consumption(Avg.)	1.8	kW
28	Weight H2 Dryer	1,500 kg	Cooling Water		
29	Weight Control Panel	100 kg	Flowrate	0.56	Ton/h
30	Color (Munsell)	3.0 BG 7.1/0.2	In/out Temperature	32/37	°C
31	Insulation	YES	Input pressure	2.0~3.0	barg
32	Control unit	Programmable Logic Controller (P.L.C)	In/Out size	1/2"/1/2"	
33	Enclosure Control Panel	IP23			
34	INSTRUMENTS-ACESSORIES				
35	Pressure Gauge	YES	Pressure Transmitter		YES
36	Temperature Gauge	YES	Touch Screen		YES
37	Resistance Temperature Detector	YES	Mass Flow Meter		YES
38	Pressure Regulator For Control Air	YES	Gas Detector		YES
39	Instrument Air Filter	YES			
40					
41	OPTION ITEM				
42	Dew Point Meter	NO			
43	Anchor Bolt / Nut	NO			
44					
45					
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47	NOTES				
48	Instrument Air : Press. : 5.0 barg above, Dew point : -20.0 °C (atm), Flow rate : 5.0 Nm3/H				
49					
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