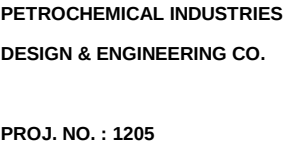


 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205	 DENA METHANOL PLANT شركت صنایع پتروشیمی دنا Dena Petrochemical Industries Co. COVER SHEET	OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102				
DATA SHEET For PACKAGE AIR HANDLING UNIT FOR LABORATORY AND YARD OFFICE						
DOCUMENT NO. : 1205-00-HV-DSH-040 TOTAL PAGES : 2 (Excluding Cover & Revision Index Sheets and attachments) Note: For relevant records of the document, reference can be made to Sabalan Methanol Project documentation.						
ED	EXT	IFE	A			
Eng. Phase	Purpose Of Distribution (POD)	Purpose Of Issue (POI)	Owner's Action			
00	28.12.2021	ISSUED FOR ENGINEERING	M.Mashayekh	M.Momenaie	A.Moadeli	N.Jafarpour
Rev.	Date	Description	Prepared by	Checked by	Approved by	Project



Data Sheet for Package Air Handling Unit for Laboratory And Yard Office

Doc. No.: 1205-00-HV-DSH-040

Rev. : 00

OWNER :

SABALAN PETROCHEMICAL INDUSTRIES CO.

PROJ. NO. : 89/S-G/102

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 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205			 DENA METHANOL PLANT Data Sheet for Package Air Handling Unit for Laboratory And Yard Office Doc. No.: 1205-00-HV-DSH-040Rev. : 00			OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102		
NO.	GENERAL							
1	Tag No.		PAHU-0040					
2	Quantity (Working + Standby)		1					
3	Service Building		Laboratory & Yard Office					
4	Manufacturer / Model		* / *					
5	Overall Size		l x w x h	m x m x m	*			
6	Operating Weight		Kg		*			
7	Installation / Type		Indoor / Horizontal					
8								
9	DESIGN DATA				SITE CONDITION			
10	Winter Room Temperature		°F	73.4	Location / Latitude		Assaluyeh / 28.5° N	
11	Relative Humidity		%	50±5	Altitude		m	34
12	Summer Room Temperature		°F	77	Summer Design Temp.		D / W °F	118.4 / 91.4
13	Relative Humidity		%	50±5	Winter Design Temp.		D / W °F	41 / 41
14								
15	COMPRESSOR SECTION				COMPRESSOR MOTOR DATA			
16	Type		* Semi Hermetic		Qty.		*	
17	No. of Compressor		* 2		Mfg. / Model No.		* / *	
18	Make / Origin		* / *		Input Power (each)		Kw	*
19	Model No.		*		Speed		rpm	*
20	No. of Stage(s)		*		Insulation Class / Temperature Rise		* / *	
21	Compressor Speed		rpm	*	Power Supply		V/Ph/Hz	400 / 3 / 50
22	Minimum of Capacity Control Steps		3		Degree of Protection		IPW 54	
23	Refrigerant Charge		lb	*	System Full Load Current		*	
24	Octave Bands/Noise Data		dB	*	System Power Factor		*	
25	Vibration Isolator		Required		Hazardous Classification		Unclassified	
26					Motor Efficiency		%	*
27	COOLING SECTION DATA							
28	Type				Evaporating Temperature		°F	*
29	Coil / Fin / Frame Material		Copper / Al. / *		Fresh Air Quantity		cfm	3500
30	Total Cooling Capacity (Actual)		MBH	576.4	Control		Required	
31	Total Sensible Cooling Cap. (Actual)		MBH	305.9	Bypass Factor		*	
32	Air Flow Rate		cfm	7565	Fins / Tubes Coating Material		* Blygold or Heresite	
33	Face Velocity		fpm	*	Refrigerant		R134a	
34	Fins Per Inch		*		Pressure Drop		in.w.g	*
35	Face Area		ft²	*	Number of Circuits		*	
36	Coil Entering Air Temperature D / W		°F / °F	96.9 / 79.3	Number of Rows		*	
37	Coil Leaving Air Temperature D / W		°F / °F	59.3 / 58.2	Tubes Diameter		*	
38								
39	FAN SECTION				FAN MOTOR DATA			
40	Type		Centrifugal		Qty.		*	
41	No. of Fan		*		Make / Origin		* / *	
42	Make / Origin		* / *		Model		*	
43	Model		*		Input Power		Kw	*
44	Total Air Flow Rate		cfm	7565	Speed		rpm	*
45	Static Pressure (Int. + Ext.)		in.w.g	* + 1.49	Insulation Class / Temperature Rise		* / *	
46	Fan Speed / Tip Speed		rpm / fpm	* / *	Power Supply (each)		V/Ph/Hz	400 / 3 / 50
47	Fan Efficiency		%	*	Degree Of Protect		IP 55	
48	Fan Shaft Power		Kw	*	System Full Load Current		*	
49	Type of drive		Belt drive		System Power Factor		*	
50	Belt guard		Required		Hazardous Classification		Unclassified	
51	Vibration isolation		Required		Motor Efficiency		%	*
52	Fan Discharge		Top		Terminal Box Degree Of Protection		IPW 55	
53	Material	Casing	*					
54		Impeller	*					
55		Shaft	*					
56								

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NO.	CASING										
57	Frame	Mat.	*	Insulation Material / Thickness			mm	* / *			
58		Prof. & Size	mm	*	Supply Air Position / Dimension			mm	Top / *		
59	Panel	Double Skin	*	Return Air Position / Dimension			mm	Top / *			
60		Mat.	*	Fresh Air Position / Dimension			mm	End / *			
61		Prof. & Size	mm	*	Supply Air Damper Type			Motorized Block Damper			
62	Base	Mat.	*	Return Air Damper Type			Motorized Block Damper				
63		Prof. & Size	mm	*	Fresh Air Damper Type			Flanged Al. Volume Damper			
64	Finishing	As Project Painting Spec.									
65	HEATING SECTION DATA										
66	Type	Electrical			Fins Per Inch			*			
67	Coil / Fin / Frame Material	* / * / *			Coil Entering Air D.B.Temperature			°F	57.3		
68	Total Heating Capacity	Btu/hr	130600		Coil Leaving Air D.B.Temperature			°F	73.4		
69	Electrical Heater Qty. / Rating	Kw	* / *		No. of Rows			*			
70	Air Flow Rate / Fresh Air Quantity	cfm	7565 / 3500		Control / No. of Stage			Required / *			
71	Face Velocity	fpm	*		Make / Origin			* / *			
72	Face Area	ft²	*		Model			*			
73	Pressure Drop	in.w.g	*								
74											
75	THERMOSTAT				FILTER SECTION						
76	Location	On Return Duct			PREFILTER	Type / Thick.	in.w.g	Washable (AL) / 50			
77	Quantity	2 (For Summer & Winter)				Max. Press. Drop	in.w.g	*			
78	Other accessories	*				Efficiency	60% by grvm. Meth. Of ASHRAE Std. 52.1				
79	Make / Origin	* / *				Location	In Mixing Box				
80	Model	*				Face Velocity	fpm	*			
81	Degree Of Protection	IP 65				Flow Rate	cfm	7565			
82											
83											
84	HUMIDIFIER				MAIN FILTER 1	Type / Material / Thick.	in	Pleated / * / *			
85	Type	Elec. Self-Contained Steam				Max. Press. Drop	in.w.g	*			
86	Water Flow Rate	Max.	lb/hr	30.75		Efficiency	65% by dust spot method (EU 6)				
87	Connection Size	in	*			Location	After Pre-filter				
88	Control Humidistat	Required			MAIN FILTER 2	Face Velocity	fpm	*			
89	Make / Origin	* / *				Flow Rate	cfm	7565			
90	Model	*				Type / Thick.	in	N.A.			
91						Max. Press. Drop	in.w.g	-			
92						Efficiency	-				
93						Location	-				
94											
95	ACCESSORIES										
96		REQUIRED	MAKE	ORIGIN	MODEL NO.	MORE DESCRIPTION					
97	Drift Eliminator	Yes	*	*	*	*					
98	Refrigerant Filters	Yes	*	*	*	*					
99	Safety / Control / Monitoring Devices Such as:										
100	Oil Differential Pressure Switches	Yes / IP 65	*	*	*	*					
101	High / Low Pressure Switches	Yes / IP 65	*	*	*	*					
102	Air Pressure Switch	Yes / IP 65	*	*	*	*					
103	High Pressure Indicator	Yes	*	*	*	*					
104	Oil Pressure Indicator	Yes	*	*	*	*					
105	Suction Pressure indicator	Yes	*	*	*	*					
106	ACOUSTIC DATA										
107	Hz	63	125	250	500	1000	2000	4000	8000		
108	Db	*	*	*	*	*	*	*	*		

REMARKS:

- 1
- *
- To be filled by vendor.
- 2
- N.A.
- Not Applicable.
- 3
- IPW 55 protection for junction boxes, motor terminal boxes, control stations, panel boards, and auxiliary equipment should be considered.