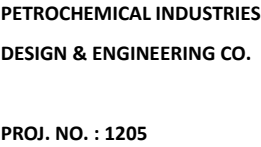


 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205	 DENA METHANOL PLANT COVER SHEET	OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102				
DATA SHEET For FRESH AIR FAN & FILTER UNIT FOR LABORATORY AND YARD OFFICE						
DOCUMENT NO. : 1205-00-HV-DSH-042 TOTAL PAGES : 1 (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 Fresh Air Fan & Filter Unit For Laboratory And Yard Office

Doc. No.: 1205-00-HV-DSH-042

Rev. : 00

OWNER :

SABALAN PETROCHEMICAL INDUSTRIES CO.

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

This document with all its rights is the property of SPIC and must be held in confidence. No disclosure, reproduction or other use of the document in whole or parts is to be made without the prior consent of SPIC

 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205	 DENA METHANOL PLANT		OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102
	Data Sheet for Fresh Air Fan & Filter Unit For Laboratory And Yard Office		
	Doc. No.: 1205-00-HV-DSH-042	Rev. : 00	

NO.	GENERAL								
1	Tag No.	FTU-0041							
2	Manufacturer	*			Duty	Permanent			
3	Quantity (Working + Standby)	1			Operating Weight	Kg	*		
4	Service Building	Laboratory And Yard Office			Installation	Outdoor			
5	Service Equipment	PAHU-0040			Overall Size	l×w×h	m×m×m	*	
6	SITE CONDITION								
7	Location / Latitude	Assaluyeh / 28.5° N			Altitude	m	34		
8	Ambient Air Temperature	Max / Min °F	118.4 / 41		Wet Bulb Temp	°F	91.4		
9	OPERATING CONDITIONS								
10	Gas Composition	Air			Air Flow Rate (Normal / Rated)	cfm	3500 / 3850		
11	Molecular Weight	29			Internal Pressure Drop	in.w.g	*		
12	Relative Humidity at Suction	Max	%	65	External Pressure Drop	in.w.g	0.44		
13	Suc. Temp.	Max / Min °F	118.4 / 41		Differential Pressure	in.w.g	* + 0.44 Note 4		
14	FAN SECTION				FAN MOTOR DATA				
15	No. of Required Units	1			Each Unit Motor Qty.	*			
16	Each Unit Fan Qty.	*			Make/Origin	* / *			
17	Make/Origin	* / *			Model No.	*			
18	Model No.	*			Each Motor Input Power	Kw	*		
19	Fan Diameter	m	*		Speed	rpm	*		
20	Speed	rpm	*		Insulation Class / Temperature Rise	* / *			
21	Material	Casing	C.S.		Power Supply (each)	V/Ph/Hz	400 / 3 / 50		
22		Impeller	Hot Deep Galv. Steel		Degree Of Protection	IP 55 Motor, IPW 55 Term. Box			
23		Shaft	C.S.		System Full Load Cur. / Power Factor	A / %	* / *		
24	Fan Efficiency	%	*		Hazardous Classification	Unclassified			
25	CASING								
26	Frame	Material	*		Casing Finishing	As Project Panting Spec.			
27		Profile & Size	*		Access Door Required	Yes			
28	Panel	Material	*		Duct Connection Type	Flanged Rectangular			
29		Thickness	mm	*	Air In / Out Duct Connection Size	* / *			
30	Base	Material	*		Damper Required	Note 2			
31		Profile & Size	*		Vibration Isolator	Required			
32	SAND TRAP LOUVER								
33	Material	*			Face Velocity	fpm	*		
34	Efficiency	%	90 (Note 3)		Max Press. Drop	in.w.g	*		
35	Air In / Out Duct Connection Type	Flanged Rectangular			Air In Duct Connection Size	*			
36	PRE-FILTER				MAIN FILTER				
37	Type / Material	Aluminum Washable Filter			Type / Material / Thick.	mm	Pleated / * / *		
38	Thickness	mm	*		Thickness	mm	*		
39	Face Velocity	fpm	*		Face Velocity	fpm	*		
40	Max. Press. Drop / Location	in.w.g	*/ After Sand Trap Louver			Max. Press. Drop / Location	in.w.g	* / After Pre-filter	
41	Test Method	Gravimetric Method Of ASHRAE Std. 52.1			Test Method	Dust Spot Method of ASHRAE Std. 52.1			
42	Efficiency	%	60		Efficiency	%	65		
43	ACCESSORIES								
44	Air Flow Switch / Model No.	Required / *			Make / Origin	* / *			
45	LOCAL CONTROL STATION								
46	Required	No			Installation Location	-			
47	On / Off / Trip Indicating Lights	-			Degree Of Protection	-			
48	Start/Stop Push Buttons	-			Hazardous Classification	-			
49	Miscellaneous Requirements	-			Mounting	-			
50	ACOUSTIC DATA								
51	Hz	63	125	250	500	1000	2000	4000	8000
52	Db	*	*	*	*	*	*	*	*

REMARKS:

- 1
- * To be filled by vendor.
- 2
- Inlet : Motorized Block Damper & Outlet : Flange Volume Damper
- 3
- 90% efficiency for particles from 150 to 170 μm at 1 m/s of face air velocity.
- 4
- The fan DP is equal to sand trap louver, metal filter, and all other filters PD, that will be specified by vendor plus a.m. external PD.
- 5
- N.A. Not Applicable.
- 6
- IPW 55 protection for junction boxes, motor terminal boxes, control stations, panel boards, and auxiliary equipment should be considered.