



PETROCHEMICAL INDUSTRIES
DESIGN & ENGINEERING CO.

PROJ. NO. : 1205



DENA METHANOL PLANT

شرکت صنایع پتروشیمی دنا
Dena Petrochemical Industries Co.

COVER SHEET

OWNER :

SABALAN PETROCHEMICAL INDUSTRIES CO.

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

DATA SHEET

For

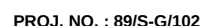
CENTRIFUGAL EXHAUST FAN FOR BATTERY ROOM IN CONTROL BUILDING

DOCUMENT NO. : 1205-00-HV-DSH-005

TOTAL PAGES : 1 (Excluding Cover & Revision Index Sheets and attachments)

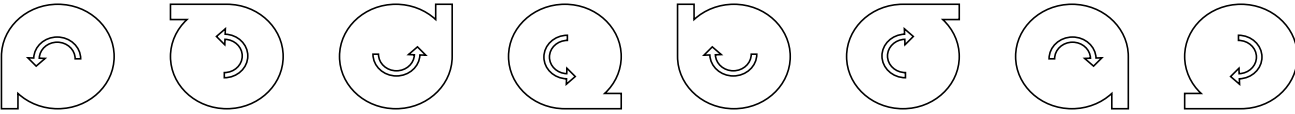
Note: For relevant records of the document, reference can be made to Sabalan Methanol Project documentation.

ED		EXT		IFE		A
Eng. Phase		Purpose Of Distribution (POD)		Purpose Of Issue (POI)		Owner's Action
00	08.10.2016	ISSUED FOR ENGINEERING		M.Mashayekh	M.Momenaie	A.Moadeli
Rev.	Date	Description		Prepared by	Checked by	Approved by
						Project



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	PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205	 DENA METHANOL PLANT Data Sheet for Centrifugal Exhaust Fan for Battery Room in Control Building Doc. No.: 1205-00-HV-DSH-005 Rev. : 00	OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102

NO.	GENERAL									
1	Tag No. EX-0012 A/B									
2	Duty Permanent									
3	Type ☐ Wall Mounted ☐ Duct Mounted ☒ Utility (Centrifugal) ☐ Roof Type ☐ Other									
4	Quantity (Working + Standby) 1+1					Operating Weight Kg *				
5	Service Battery Room					Type of Driver El. Motor				
6	Overall Size l x w x h m x m x m *					Installation Outdoor				
7	Inlet : (Single / Double) Single					Impeller Type l x w x h m x m x m *				
8	SITE CONDITION									
9	Location / Latitude					Assaluyeh / 28.5° N				
10	Altitude m					34				
11	Ambient Air Temperature Max / Min °F					118.4 / 41				
12	Wet Bulb Temp °F					91.4				
13	OPERATING CONDITIONS									
14	Gas Composition Air					Suction Press. in.w.g -0.76				
15	Molecular Weight 29					Discharge Pressure in.w.g Atm.				
16	Air Flow Rate Rated cfm 1250					Differential Pressure in.w.g 0.76				
17	Normal cfm 1135					Suc. Temp. Min °F -				
18	Relative Humidity at Suction Max % 65					Max °F 89.6				
19	FAN DATA					MOTOR DATA				
20	Make/Origin * / *					Make/Origin * / *				
21	Model No. *					Model No. *				
22	Fan Diameter m *					Input Power Kw *				
23	Fan Speed rpm *					Speed rpm *				
24	Material / Thickness Casing mm * Note 4					Insulation Class / Temperature Rise * / *				
25	Impeller mm * Note 4					Power Supply V/Ph/Hz 400 / 3 / 50				
26	Material Shaft * Note 4					Degree of Protection IP 55				
27	Pulley * Note 4					System Full Load Current A *				
28	Material / Make / Origin Belt * / * / * Note 4					System Power Factor % *				
29	Finish Casing *					Hazardous Classification EExd IIC T3				
30	Impeller *					Motor Efficiency % *				
31	ACCESSORIES									
32	Required More Specification					Required More Specification				
33	Pulley Guard * *					Base Yes * steel channel profile				
34	Belt Guard * *					Safety Screen Outlet *				
35	Bearing Guard * *					Vibration Isolator Yes *				
36	Air Flow Switch / Model No. Yes *					Gravity Damper Yes *				
37	Drain Hole Yes *					Inlet Connection Yes Flanged				
38	Elec. Terminal Junction Box Yes IPW 55, With Cable Gland					Outlet Connection No -				
39	LOCAL CONTROL STATION									
40	Required N.A.					Installation Location -				
41	On / Off / Trip Indicating Lights -					Degree of Protection -				
42	Start / Stop Push Buttons -					Hazardous Classification -				
43	Miscellaneous Requirements -									
44	NOISE SPECIFICATION									
45	Noise level @ 1 meter from ex. Fan db *					Noise level @ exhaust air db *				
46	DIRECTION OF DISCHARGE (Note 2 & 3)									
47	☐ ☒ ☐ ☐ ☐ ☒ ☐ ☐									
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- REMARKS:**
- 1 * To be filled by vendor.
 - 2 Direction of rotation is determined from drive side of fan.
 - 3 Upper left side exhaust for EX-0012A & upper right side exhaust for EX-0012B.
 - 4 All fan parts that are in contact with air stream, should be selected from acid resistant and spark proof material.
 - 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.