



Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.

**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: PFD for Activated Carbon Filter

Document No. : EI027-ENR-VD-PR-PFD-002

Rev.: R1

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STYRENE PARK OFFSITE

Document Title:

PFD for Activated Carbon Filter

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	13/04/2024	Issued for Comment	M.Tavakoli	E.Malek	H.Keshmiri
R0	20/02/2024	Issued for Comment	M.Tavakoli	E.Malek	H.Keshmiri



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STYRENE PARK OFFSITE**



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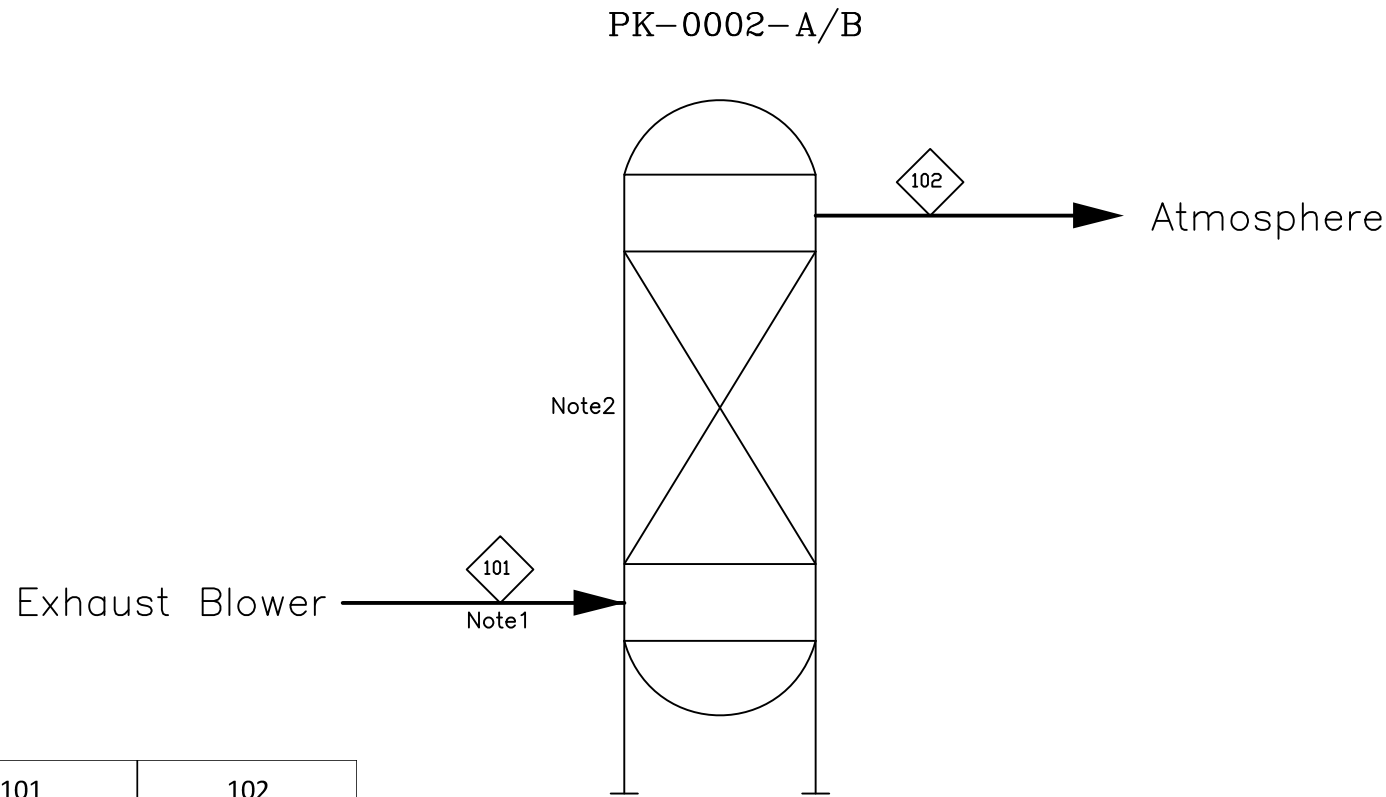
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Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
1	X	X						41							
2	X	X						42							
3	X	X						43							
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PK-0002-A/B
 AIR CARBON FILTER
 OP. T. = 31 C
 OP. P. = 0.07 barg



STREAM NUMBER		101	102
Service		Air + Styrene	Air+Styrene
Vapor Frac.		1.0000	1.0000
Temperature	C	31	31
Pressure	barg	0.07	0.00
Normal Flow(Note1)	Nm3/hr	1080	1080
Density	kg/m3	1.19	1.11
Viscosity	cP	0.02	0.02
Molecular Weight	kmol/kg	28.10	28.10
Heat Capacity	kJ/kmolC	29.40	29.40
Cp/Cv		1.4	1.4
COMPOSITION	%wt		
Styrene		3.5 g/Nm3	<50 mg/Nm3
Air		balanced	balanced

REFERENCE DRAWING	DWG NO.	REV.
PFD FOR STYRENE	EI0127-000-ED-PR-PFD-501	R3

LEGENDS :



NOTES :

1. Feed stream is intermittent at loading time of upstream styrene storage tank.
2. Non-regenerable Carbon Active.

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
R1	13-Apr-24	Issued for Comment	M.T.	E.M.	H.K.	HRCO
R0	20-Feb-24	Issued for Comment	M.T.	E.M.	H.K.	HRCO

CLIENT:  PJPC

CONSULTING ENGINEER:  پارسیان مهندسی توسعه پارک صنعتی گوهر الماس

VENDOR:  EN3R TEKNOLOJI

 HAMOON RAH

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **PFD for Active Carbon Filter**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-ENR-VD-PR-PFD-002	R1	A3	NTS	3 of 3