



# F-00 I

## Vent Gas Carbon Adorption System

### FOR INFORMATION

### Ecobat Vent Gas Study Project No.: 2260.220842

В	12/20/2022	ISSUED FOR INFORMATION	H. Arenas	A.Kolhatkar	G. Allum-Govia
А	10/20/2022	ISSUED FOR INFORMATION	H. Arenas	A.Kolhatkar	D.L Brown
REV	DATE	DESCRIPTION	ORIGINATOR	CHECKER	APPROVER

hargrove engineers & constructors			tructors	Carbon Adsorption System DATA SHEET					<b>F-001</b> PAGE 1 OF 2 Rev B		
1		ENT	Ecol	nat		EQUIPMEN		F-001			
		DJECT TITLE		Gas Process	Study	SERVICE			s Carbon Adorp	tion System	
		DJECT LOCATIO	_		,	P. O. / INQ					
		DJECT NO.		0.220842		P&ID NO.		PFD			
5						1 415 1101					
	Fur	nction:									
7			Isorntia	on filter is to	remove Dimethyl carbona	ate (DMC)	Halogen	(HF) and	d VOC contam	inants	
8			iooi pui				nalogen	(in ) and			
	On	eration:									
10			filter v	vill operate o	continuously. One spare fil	ter should b	e provide	ed.			
11					n while replacing the carbo		- F. 51.00				
12											
	Des	sign:									
14		<ul> <li>modularize</li> </ul>	e to th	e extent pra	ctical						
15					drail and stairs for access t	to the top of	the vess	els/equi	pments		
16		•	•		and controls prewired to a				-		
17					r	- F					
18		Paramete	er	Units	Value						
19		Eg. Nı	umber	-	F-001						В
20			Flow:	m³/hr	654						В
21				kg/hr	818						В
				-		_					
22		Organic		ppm(w)	See page 2						
23			out	ppm(w)	See page 2	-					
24		Vapor properti		1 ( 3	1.25	-					
25			ensity	kg/m <sup>3</sup>	1.25						В
26			cosity	cP	0.017	_					
27			solids		None	-					<u> </u>
28 29		Allowat		barg °C	0.1	-					<u> </u>
29 30		Opera		°C	50	-					В
30 31			sign T		0.1	-					В
31			iting P		1	-					<u> </u>
32		Vesse	sign P	barg	1	-					
33 34			meter	cm	*	1					
35			St Side	cm	*	-					
36		Overall L x		feet	*	1					
37			** ^ 11			4					
	Not	tes:									
39			o recor	nmend and	supply the specific carbon	to be used					
40							ne week o	of RFO n	eceipt.		
41											
42											
43		5									
44											
45											
46											
47											
В	1	12/20/2022			Issued for Information		H. Ar	enas	A. Kolhatkar	G. Allum-Govia	В
A	1	10/20/2022			Issued for Information		H. Ar	enas	A. Kolhatkar	D. Brown	Α
REV		DATE		RI	EASON FOR REVISION		B	Y	CHECKED BY	APPROVED BY	REV



#### Carbon Adsorption System DATA SHEET



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				Rev B
1	CLIENT	Ecobat	EQUIPMENT NO.	F-001
2	PROJECT TITLE	Vent Gas Process Study	SERVICE	Vent Gas Carbon Adorption System
3	PROJECT LOCATION	Casa Grande, Arizona	P. O. / INQUIRY NO.	
4	PROJECT NO.	2260.220842	P&ID NO.	PFD

#### Filter System Feed (Inlet)

Description	Units	To Filter System	
Pressure	Bar g	0.1	
	psig	1.45	
Mass Flows	kg/hr	817.7	РРМ
DIMET-01	kg/hr	0.0	0
ETHYL-01	kg/hr	0.0	0
DIETH-01	kg/hr	0.0	0
WATER	kg/hr	10.8	13228
ACETA-01	kg/hr	0.8	933
HYDRO-01	kg/hr	2.60E-08	3.00E-05
NITROGEN	kg/hr	702.70	
AIR	kg/hr	103.4	

#### **Outlet requirements**

VOC < 0.5 Kg/hr

HF < 15 grms/hr

36							
37							
39							
						Π	
						Π	
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