

T-001
Vent Gas Scrubber
FOR INFORMATION

Ecobat Vent Gas Study
Project No.: 2260.220842

A	12/20/2022	ISSUED FOR INFORMATION	H. Arenas	A. Kolhatkar	G. Allum-Govia
REV	DATE	DESCRIPTION	ORIGINATOR	CHECKER	APPROVER



VENT SCRUBBER DATA SHEET

T-001

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REVISION A

1	CLIENT	ECOBAT	EQUIPMENT NO.	T-001		
2	PROJECT TITLE	ECOBAT VENT STUDY	SERVICE	Scrubber		
3	PROJECT LOCATION	Casa Grande, Arizona	P. O. / INQUIRY NO.			
4	PROJECT NO.	2260.220842	P&ID NO.	NA		
5	General information					
6	Equipment Type	Scrubber	To scrub vent gas before the filtering system.			
7	Equipment Name	Vent Gas Scrubber				
8	Equipment Number	T-001				
9	Quantity	1				
10	Process Information					
11	Vent Gas Stream Composition (Kh/hr)	Dimet-1=125.6 Water=264.1 Acetal=13 HF=3 air=107 Nitro=719				
12	Vent Gas Flow, Kg/hr	Operating: 1250 KG/hr				
13	Vent Gas Temperature, °C	Operating: 25 °C	Design: 50 °C			
14	Vent Gas Inlet Pressure, Barg	Operating: 0.1 barg	Design: 1 Barg			
15	Removal Efficiency	99.9+%				
16	Scrubbing Solution					
17	Fresh Scrubbing Solution Concentration					
18	Fresh Scrubbing Solution Flow, Kg/hr	*				
19	Circ. Scrubbing Solution Concentration	*				
20	Circ. Scrubbing Solution Flow, Kg/hr	*				
21	Treated Gas Stream Composition	*				
22	Treated Gas Flow, Kg/hr	*				
23	Treated Gas Temperature, °C	*				
24	Treated Gas Pressure, Barg	*				
25	Location	Outside				
26	Electrical Classification	Unclassified				
27	Equipment Support	Mounted at grade on foundations by others				
28	Number of stages	8 theoretical	See note 3			
29	Mechanical Information					
30	Scrubber Type	Plate Scrubber System	Optional: Vendor to quote alternate type			
31	Diameter, Venturi Section, in	*				
32	Diameter, Venturi Throat, in.	*				
33	Height, Venturi Section, in.	*				
34	Diameter, Bleed Tank, in.	*				
35	Height, Bleed Tank, in	*				
36	Residence Time, min.	*				
37						
38	Circulation/Bleed Pumps, Quantity	*				
39	Flow Rate, gpm	17.6 gpm (4000 KG/HR) Water				
40	TDH, ft	*				
41	Type					
42	Size, Inlet x Outlet, in.	*				
43	Mfg. / Model	*				
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4	PROJECT NO.	2260.220842	P&ID NO.			
5	Utility Information Cont'd					
6	Cooling Water Supply Pressure, Barg	TBD				
7	Cooling Water Supply Temperature, °C	25				
8	Cooling Water Requirements, Kg/hr	4000				
9						
10	Cool Condensate Supply Pressure, psig					
11	Cool Condensate Supply Temperature, °C					
12	Cool Condensate Requirements, Kg/hr					
13						
14	Electrical Supply, Motors <=200 HP	*				
15	Electrical Supply, Motors >=250 HP	*				
16						
17						
18	Materials of Construction					
19	Scrubber	*		FRP preferred		
20	Scrubber Internals	*		PP preferred		
21	Pump Casing/Impeller	* / *				
22	Fan Casing/Impeller	* / *				
23	Inlet Duct	*				
24	Outlet Duct	*				
25	Stack	*				
26						
27						
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30	Notes					
31	1	Vendor to provide initial layout information				
32	2	Vendor to review materials of construction and advise alternatives if required				
33	3	Final stage number by vendor.				
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