- GENERAL NOTES

  1. THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1
- ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.

  TANK MATERIAL SHALL BE SINGLE WALL FIBERGLASS REINFORCED PLASTIC (FRP) PER ASTM

- DA097.

  4. BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.

  5. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.

  6. CONTACT AN IWT/DELTA REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

TABLE 1 PROCESS PARAMETERS DELTA E450D BOD ONLY					
PARAMETER	PARAMETER MINIMUM MAXIMUM				
AVERAGE DAILY FLOW	-	4,500 GPD			
PEAK DAILY FLOW - 7,000 GPD					
INFLUENT BOD <sub>5</sub> - 11.3 LB/DAY					
AIR TEMPERATURE	-	68 °F			
WATER TEMPERATURE	68 °F	68 °F			
RELATIVE HUMIDITY	10%	90%			
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL			

TABLE 2 AIR DEMAND				
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL		
STANDARD AIRFLOW	55 SCFM	64 SCFM		
SITE AIR REQUIREMENT	61 ICFM	76 ICFM		
BLOWER INLET AIR	67 ICFM	116 ICFM		
AIR HEADER SIZE	3 IN	3 IN		
MIN. TANK VENT X-SECT. AREA	27.6 IN <sup>2</sup> 1 EA 6"	47.8 IN <sup>2</sup> 2 EA 6" OR 1 EA 8"		
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K05-MS <sup>3</sup>		
NOISE LEVEL	65.0 dB(A)	70.8 dB(A)		
AIR TEMPERATURE RISE <sup>1</sup>	41 F (22.8 C)	33 F (18.3 C)		
BLOWER INLET DIAMETER	1.5 IN NPT	2 IN NPT		
BLOWER OUTLET DIAMETER	1.5 IN NPT	2 IN NPT		
MOTOR POWER RATING <sup>2</sup>	2 HP	3 HP		
OPERATING POWER	1.1 KW	1.7 KW		
	AIR TEMPERATURE WHEN SPECIFYING RER CUTSHEETS FOR ADDITIONAL ELE			

3. USE ALTERNATIVE BLOWER GARDNER DENVER 2L ON HIGH ELEVATION RANGE IF REQUIRED. SEE CALCULATIONS FOR DETAILS.

TABLE 3 STANDARD EQUIPMENT LIST DESCRIPTION QTY MAKE MODEL ECOPOD REACTOR DELTA E450D PER TABLE 2 FPZ BLOWER CONTROL PANEL PER DESIGN DELTA 24" S.S. EFFLUENT WEIR TROUGH-3.0 DELTA

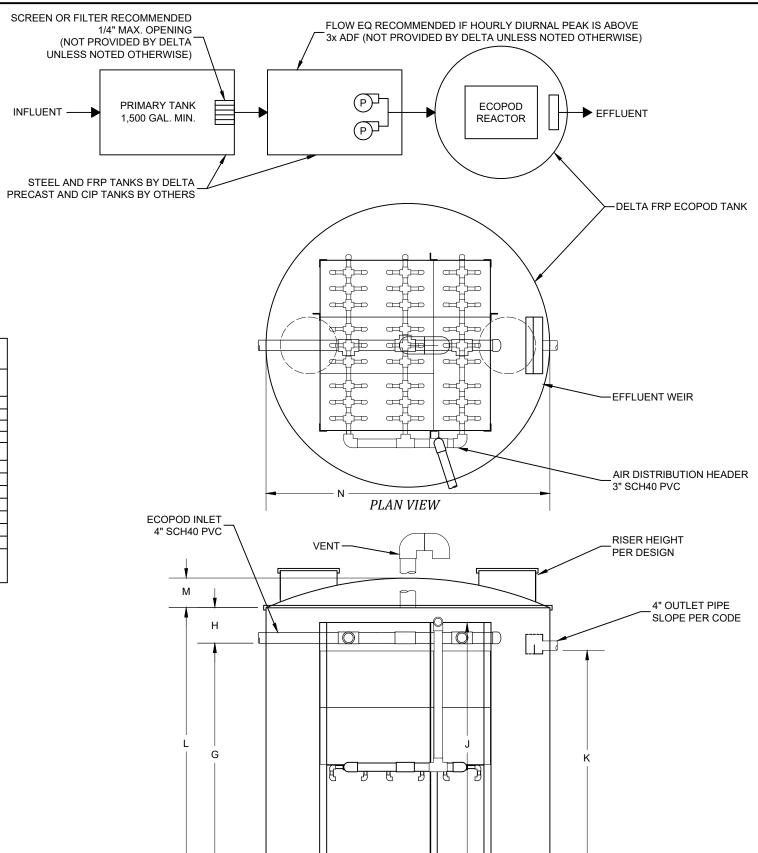


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	SITE ELEVATION LAYOUT OVERALL OVERALL UD LENGTH WIDTH		B1 AIR HEADER CL DIM					
FT	М		IN	CM	IN	CM	IN	CM
INTENTIONALLY LEET BLANK								

RECOMMENDE	TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
DIMENSION	DIMENSION IN CM					
C VESSEL FRONT SPACE	, , , , , , , , , , , , , , , , , , ,					
D VESSEL REAR SPACE	D VESSEL REAR SPACE					
E AIR HEADER SIDE INSIDE SPACE	AIR HEADER SIDE INSIDE					
F NO HEADER SIDE INSIDE SPACE						
INTENTIONALLY LEFT BLANK.						

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS					
DIMENSION IN CM					
G INLET INVERT	92	234			
H PLENUM SPACE ABOVE 10 25 INLET INVERT					
J MEDIA REACTOR HEIGHT 101 257					
K 89 226					
ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET     ACCESS RISER REQUIRED, 24" DIA MINIMUM.					

TABLE 7 VC ECOPOD TANK EXTERIOR DIMENSIONS					
DIMENSION IN CM					
L = G + H TANK WALL HEIGHT 102 259					
M TANK DOME HEIGHT	12	30			
N 120 305					
PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL					

$\overline{}$	DESCRIPTION	INITIALS	DATE	NO.
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OF D				
OF D				



**ELEVATION VIEW** 

Delta Treatment Systems, LLC

DELTA ECOPOD E450D-VC STANDARD DESIGN FOR BOD REDUCTION

**GENERAL ARRANGEMENT** 

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ı	HORIZ. SCALE	PROJECT NO.
ı	N/A	N/A
ı	VERT. SCALE	DATE
ı	N/A	07/20/2021
J	DRAWN BY	DESIGNED BY
1	CGK	AOB
l	DRAWING NO.	SHEET NO.
l	C1.0	01 of 01

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