- 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
- BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.
 SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
- 6. CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.
- TABLE 1 PROCESS PARAMETERS IWT E450D BOD ONLY PARAMETER MAXIMUM AVERAGE DAILY FLOW 4,500 GPD 7,000 GPD PEAK DAILY FLOW 11.3 LB/DAY INFLUENT BOD5 AIR TEMPERATURE 68 °F WATER TEMPERATURE 68 °F 68 °F RELATIVE HUMIDITY 10% 90% SITE ELEVATION 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 ² 1 EA 6"	47.8 IN ² 2 EA 6" OR 1 EA 8"	
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K05-MS ³	
NOISE LEVEL	65.0 dB(A)	70.8 dB(A)	
AIR TEMPERATURE RISE ¹	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 ²	2 HP	3 HP	
OPERATING POWER	1.1 KW	1.7 KW	
REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.			

USE ALTERNATIVE BLOWER GARDNER DENVER 2L ON HIGH ELEVATION RANGE IF REQUIRED. SEE

TABLE 3 STANDARD EQUIPMENT LIST			Т
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	IWT	E450D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	IWT	PER DESIGN
24" S.S. EFFLUENT WEIR	1	IWT	TROUGH-3.0

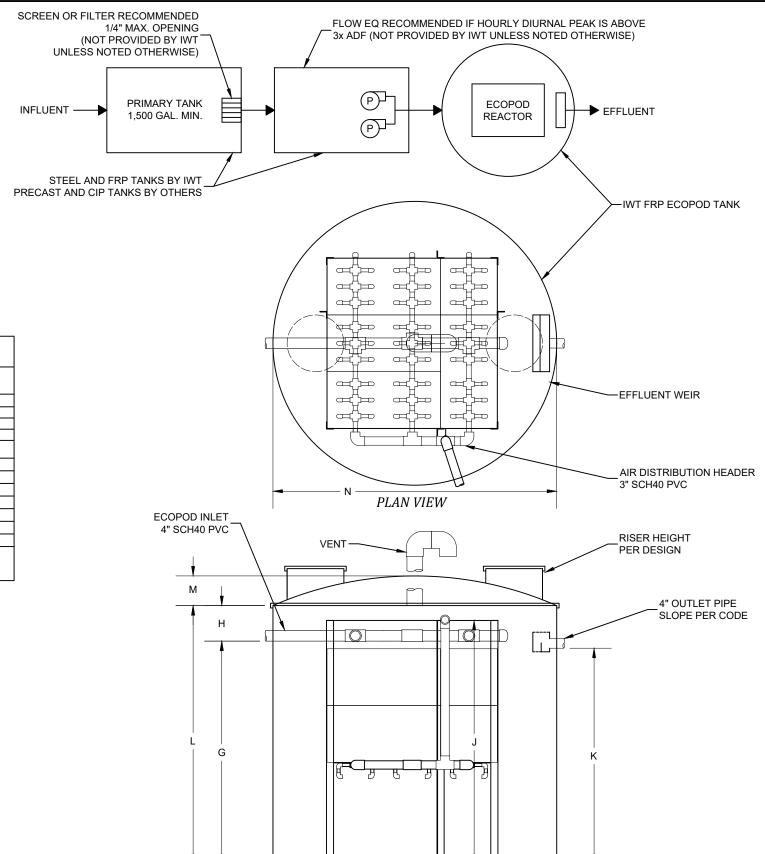


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMÉNSIONS B1 AIR HEADER OVERALL SITE ELEVATION LAYOUT OVERALL LENGTH CL DIM WIDTH IN СМ СМ СМ INTENTIONALLY LEFT BLANK.

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

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS				
DIMENSION	IN	СМ		
G INLET INVERT	92	234		
H PLENUM SPACE ABOVE INLET INVERT	10	25		
J MEDIA REACTOR HEIGHT	101	257		
K OUTLET INVERT	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	СМ		
L = G + H TANK WALL HEIGHT	102	259		
M TANK DOME HEIGHT	12	30		
N TANK DIAMETER ¹ 120 305				
PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL				

NO.	DATE	INITIALS	DESCRIPTION	Г	
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ELEVATION VIEW

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ECOPOD E450D-VC STANDARD DESIGN FOR BOD REDUCTION

GENERAL ARRANGEMENT

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