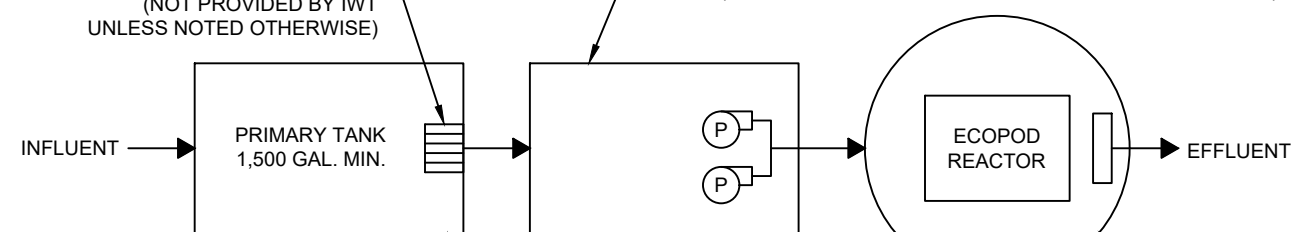


- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1. COMMERCIAL OR NON-DOMESTIC WASTEWATER STREAMS ARE NOT INCLUDED IN THIS SCOPE AND MAY REQUIRE SEPARATE EVALUATION. CONTACT IWT FOR COMMERCIAL WASTEWATER TREATMENT REVIEW AND DESIGN REQUIREMENTS.
 - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
 - TANK MATERIAL SHALL BE SINGLE WALL FIBERGLASS REINFORCED PLASTIC (FRP) PER ASTM D4097.
 - 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.
 - CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

SCREEN OR FILTER RECOMMENDED
1/4" MAX. OPENING
(NOT PROVIDED BY IWT
UNLESS NOTED OTHERWISE)

FLOW EQ RECOMMENDED IF HOURLY DIURNAL PEAK IS ABOVE
3x ADF (NOT PROVIDED BY DELTA UNLESS NOTED OTHERWISE)



STEEL AND FRP TANKS BY IWT
PRECAST AND CIP TANKS BY OTHERS

IWT FRP ECOPOD TANK

EFFLUENT WEIR

AIR DISTRIBUTION HEADER
3" SCH40 PVC

RISER HEIGHT
PER DESIGN

4" OUTLET
SLOPE PER CODE

ECOPOD INLET
4" SCH40 PVC

PLAN VIEW

VENT

ELEVATION VIEW

SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
INTENTIONALLY LEFT BLANK.								

DIMENSION	IN	CM
C VESSEL FRONT SPACE		
D VESSEL REAR SPACE		
E AIR HEADER SIDE INSIDE SPACE		
F NO HEADER SIDE INSIDE SPACE		
INTENTIONALLY LEFT BLANK.		

DIMENSION	IN	CM
G INLET INVERT	92	234
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	101	257
K OUTLET INVERT	89	226
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS RISER REQUIRED, 24" DIA. MINIMUM. 2. ONE (1 EA.) SLUDGE REMOVAL ACCESS RISER RECOMMENDED, 24" DIA. MINIMUM.		

DIMENSION	IN	CM
L = G + H TANK WALL HEIGHT	102	259
M TANK DOME HEIGHT	12	30
N TANK DIAMETER ¹	96	244
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL		

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	3,000 GPD
PEAK DAILY FLOW	-	4,500 GPD
INFLUENT BOD ₅	-	7.5 LB/DAY
AIR TEMPERATURE	-	115 °F
WATER TEMPERATURE	68 °F	68 °F
RELATIVE HUMIDITY	10%	90%
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL

PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	36 SCFM	42 SCFM
SITE AIR REQUIREMENT	41 ICFM	51 ICFM
BLOWER INLET AIR	51 ICFM	51 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	21 IN ² 2 EA 4" OR 1 EA 6"	21 IN ² 2 EA 4" OR 1 EA 6"
BLOWER SELECTION	FPZ SCL R30-MD	FPZ SCL R30-MD
NOISE LEVEL	72.2 dB(A)	72.2 dB(A)
AIR TEMPERATURE RISE ¹	29 F (16.1 C)	29 F (16.1 C)
BLOWER INLET DIAMETER	1.25 IN NPT	1.25 IN NPT
BLOWER OUTLET DIAMETER	1.25 IN NPT	1.25 IN NPT
MOTOR POWER RATING ²	2 HP	2 HP
OPERATING POWER	0.92 KW	0.92 KW
1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL. 2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.		

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	IWT	E300D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	IWT	PER DESIGN
24" S.S. EFFLUENT WEIR	1	IWT	TROUGH-3.0

NO.	DATE	INITIALS	DESCRIPTION

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Part of ADS

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ECOPOD E300D-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

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