- 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
- IN TABLE 1.

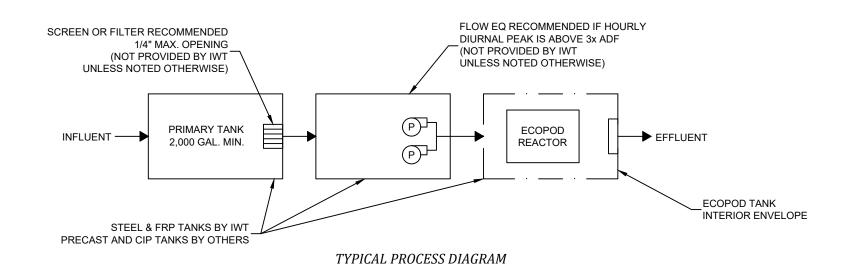
  ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL. TANK MATERIAL OPTIONS:
  3.1. CARBON STEEL PER ASTM A36 w/COATING PER IWT STANDARDS,
  3.2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
  3.3. PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,
  3.4. CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,

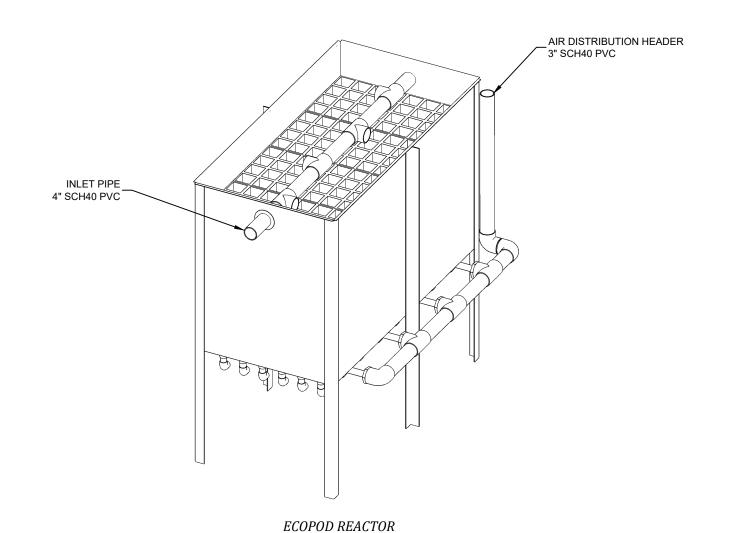
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  3.3. PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,
  3.4. CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
  BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS SHALL BE SHIPPED UNASSEMBLED AND SECURELY 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 E400D BOD ONLY			
PARAMETER	MINIMUM	MAXIMUM	
AVERAGE DAILY FLOW	-	4,000 GPD	
PEAK DAILY FLOW	-	6,000 GPD	
INFLUENT BOD₅	-	10 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			

TABLE 2 AIR DEMAND				
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL		
STANDARD AIRFLOW	49 SCFM	56 SCFM		
SITE AIR REQUIREMENT	55 ICFM	68 ICFM		
BLOWER INLET AIR	67 ICFM	67 ICFM		
AIR HEADER SIZE	3 IN	3 IN		
MIN. TANK VENT X-SECT. AREA	27.6 IN <sup>2</sup> 1 EA 6"	27.6 IN <sup>2</sup> 1 EA 6"		
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K04-MS <sup>3</sup>		
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)		
AIR TEMPERATURE RISE <sup>1</sup>	41 F (22.8 C)	41 F (22.8 C)		
BLOWER INLET DIAMETER	1.5 IN NPT	1.5 IN NPT		
BLOWER OUTLET DIAMETER	1.5 IN NPT	1.5 IN NPT		
MOTOR POWER RATING <sup>2</sup>	2 HP	2 HP		
OPERATING POWER	1.1 KW	1.1 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





	S DESCRIPTION	INITIALS	DATE
	ADDED TRIMETRIC VIEW	AOB	0/12/21
Water Technolo			
D-+-f ##			

of **///ADS** 

INFILTRATOR WATER TECHNOLOGIES, LLC 4 BUSINESS PARK RD, OLD SAYBROOK, CT 06475 WWW.INFILTRATORWATER.COM PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM

LAYOUT 1

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ECOPOD E400D STANDARD DESIGN FOR BOD REDUCTION		
GENERAL ARRANGEMENT		

**DESIGN OVERVIEW** 

HORIZ. SCALE
N/A N/A
VERT. SCALE DATE
N/A 02/11/2021
DRAWN BY DESIGNED BY
CGK AOB
DRAWING NO. SHEET NO.
C1.0 01 of 02

TABLE 3 STANDARD EQUIPMENT LIST

MAKE

FPZ

IWT

IWT

QTY

MODEL

E400D

PER TABLE 2

PER DESIGN

TROUGH-3.0

DESCRIPTION

ECOPOD REACTOR

BLOWER

CONTROL PANEL

24" S.S. EFFLUENT WEIR

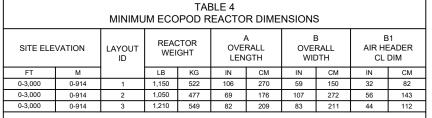
GENERAL NOTES

1. ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.

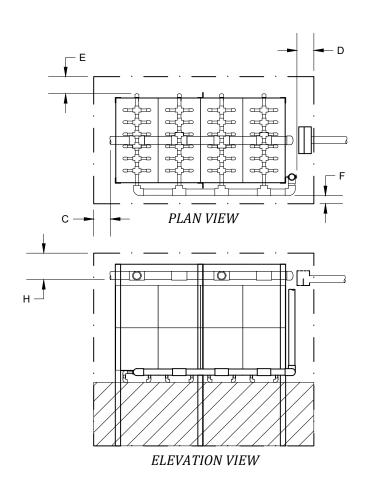
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2.2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
2.3. PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,
2.4. CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.

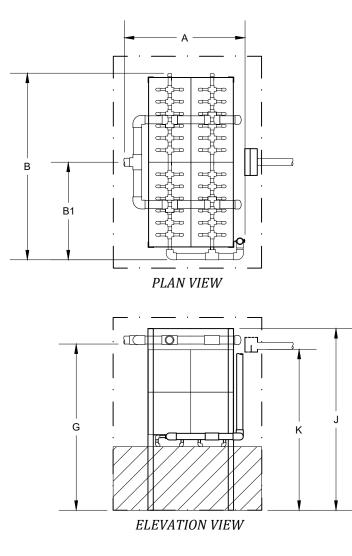
3. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.

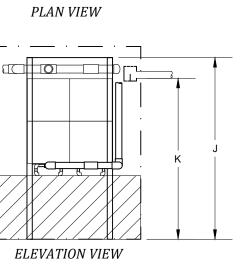
4. CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.











LAYOUT 3

	RECOMMENDED INTERIOR ENVEL		
	DIMENSION	IN	СМ
ECOPOD TANK / INTERIOR ENVELOPE	C VESSEL FRONT SPACE	12	30
/ INTERIOR ENVELOYE	D VESSEL REAR SPACE	18	46
	E AIR HEADER SIDE INSIDE SPACE	6	15
4" NPT THD. ADPT.	F NO HEADER SIDE INSIDE SPACE	6	15
REQ'D AT WEIR CONN.  BY OTHERS	1: ADDITIONAL ACCESS HA FOR SOLIDS REMOVAL ALC		
	REQUIRED E INTERIOR ENVE		
EFFLUENT WEIR	DIMENSION	IN	СМ
	G INLET INVERT	92	234
PLAN VIEW AIR DISTRIBUTION HEADER	H PLENUM SPACE ABOVE INLET INVERT	10	25
ECOPOD INLET	J MEDIA REACTOR HEIGHT	101	257
4" SCH40 PVC	K OUTLET INVERT	89	226
	1. ONE (1 EA.) INLET AND ( ACCESS HATCH REQUIRE		

DIMENSION	IN	CM		
C VESSEL FRONT SPACE	12	30		
D VESSEL REAR SPACE	18	46		
E AIR HEADER SIDE INSIDE SPACE	6	15		
F NO HEADER SIDE INSIDE SPACE	6	15		
1: ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.				
<u> </u>				
TABLE 6 REQUIRED ECOPOD TANK				

TABLE 5

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 HATCH REQUIRED, 24" DIA MINIMUM.				

LAYOUT 1 LAYOUT 2

NO.	DATE	INITIALS	DESCRIPTION	
				1 4//
				1

Infiltrator

INFILTRATOR WATER TECHNOLOGIES, LLC 4 BUSINESS PARK RD, OLD SAYBROOK, CT 06475 WWW.INFILTRATORWATER.COM PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM

**ELEVATION VIEW** 

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ECOPOD E400D		
STANDARD DESIGN FOR BOD REDUCTION		

**GENERAL ARRANGEMENT** LAYOUT DIMENSIONS

4" OUTLET PIPE BY OTHERS

SLOPE PER CODE

36" MAXIMUM SOLIDS ACCUMULATION DEPTH

ı	HORIZ. SCALE	PROJECT NO.
l	N/A	N/A
l	VERT. SCALE	DATE
l	N/A	05/18/2021
J	DRAWN BY	DESIGNED BY
1	CGK	AOB
l	DRAWING NO.	SHEET NO.
l	C1.1	02 of 02