- 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 1ABLE 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.

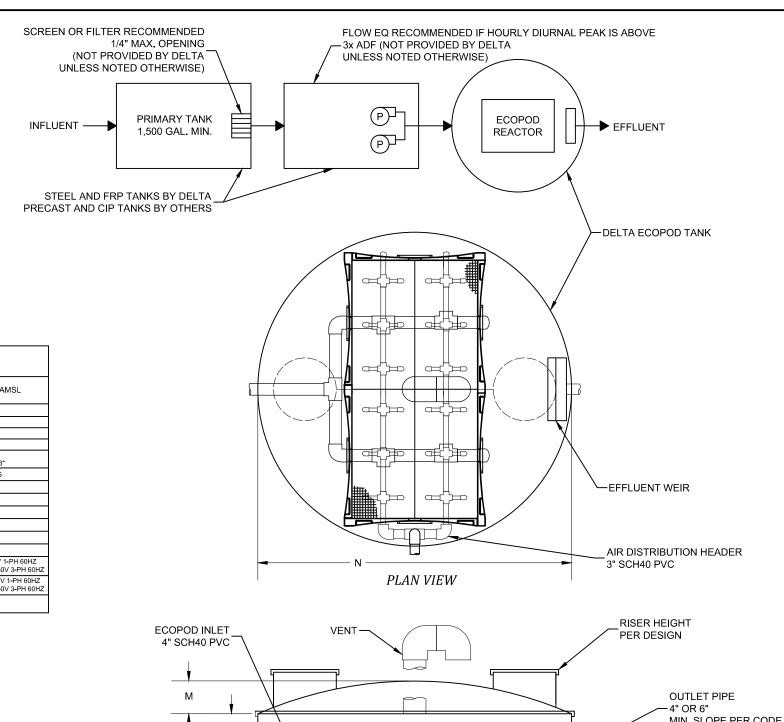
 5. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.

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

TABLE 1 PROCESS PARAMETERS DELTA E200S BOD ONLY PARAMETER MAXIMUM AVERAGE DAILY FLOW 2,000 GPD 3,000 GPD PEAK DAILY FLOW 5 LB BOD₅/DAY INFLUENT BODS AIR TEMPERATURE 115 °F WATER TEMPERATURE 68 °F 68 °F RELATIVE HUMIDITY 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	44 SCFM	51 SCFM				
SITE AIR REQUIREMENT	50 ICFM	61 ICFM				
BLOWER INLET AIR	55 ICFM	78 ICFM				
AIR HEADER SIZE	3 IN	3 IN				
MIN. TANK VENT X-SECT. AREA	22.7 IN ² 2 EA 4" OR 1 EA 6"	32.1 IN ² 2 EA 6" OR 1 EA 8 "				
BLOWER SELECTION	FPZ SCL R30-MD	FPZ SCL K04-MS				
NOISE LEVEL	72.2 dB(A)	64.8 dB(A)				
AIR TEMPERATURE RISE ¹	22 F (12.2 C)	25 F (13.9 C)				
BLOWER INLET DIAMETER	1.25 IN NPT	1.5 IN NPT				
BLOWER OUTLET DIAMETER	1.25 IN NPT	1.5 IN NPT				
MOTOR POWER RATING ²	2 HP	1.5 HP				
OPERATING POWER	0.75 KW	0.8 KW				
STARTING CURRENT	96/48.2 A @ 115/208-230V 1-PH 60HZ 51.4-51.9/25.9 A @ 208-230/460V 3-PH 60HZ	49.3/23.2 A @ 115/208-230V 1-PH 60HZ 40.5-40.4/20.2 A @ 208-230/460V 3-PH 60HZ				
FULL LOAD CURRENT 19.4/9.8 A @ 115/208-230V 1-PH 60HZ 14.6/7.6-7.3 A @ 115/208-230V 1-PH 60HZ 5.91-5.96/2.98 A @ 208-230/460V 3-PH 60HZ 4.35-4.34/2.17 A @ 208-230/460V 3-PH 60HZ						
REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.						

TABLE 3 STANDARD EQUIPMENT LIST						
DESCRIPTION QTY MAKE MODEL						
ECOPOD REACTOR 1 DELTA E200S						
BLOWER 1 FPZ PER TABLE 2						
CONTROL PANEL 1 DELTA PER DESIGN						
24" S.S. EFFLUENT WEIR	1	DELTA	TROUGH-3.0			



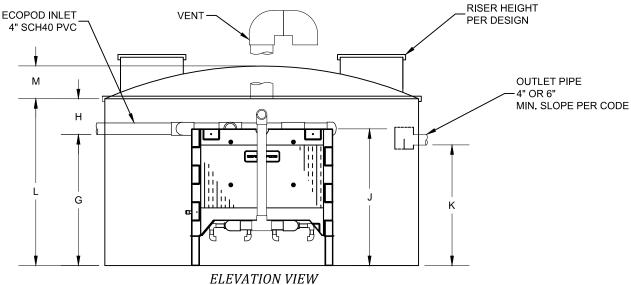


	TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELEVATION REACTOR LAYOUT OVERALL OVERALL AIR HEAD! MATERIAL ID LENGTH WIDTH CL DIM						EADER			
	FT	M IN CM IN CM IN C						CM	
	INTENTIONALLY LEFT BLANK.								

TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
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 BLA	NK.				

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS						
DIMENSION IN CM						
G 50 127						
H PLENUM SPACE ABOVE 10 25 INLET INVERT						
J 59 150						
K OUTLET INVERT 47 119						
	1. 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	60	152					
M TANK DOME HEIGHT	12	30					
N 120 305							
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL							
WALL	WALL						

	DESCRIPTION	INITIALS	DATE
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47			
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DELTA ECOPOD E200S-VC STANDARD DESIGN FOR BOD REDUCTION

AND DESIGN FOR BOD NEDGETION	N/A	07/20/
	DRAWN BY	DESIGN
	CGK	AO
GENERAL ARRANGEMENT	DRAWING NO.	SHEET
GENERAL ARRANGEWENT	C1.0	01 0

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

- GENERAL NOTES

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- DA097.

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 5. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.

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

TABLE 1 PROCESS PARAMETERS DELTA E300S BOD ONLY						
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				

TABLE 2 AIR DEMAND						
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL				
STANDARD AIRFLOW	66 SCFM	77 SCFM				
SITE AIR REQUIREMENT	74 ICFM	92 ICFM				
BLOWER INLET AIR	78 ICFM	130 ICFM				
AIR HEADER SIZE	3 IN	3 IN				
MIN. TANK VENT X-SECT. AREA	32.1 IN ² 2 EA 6" OR 1 EA 8"	53.5 IN ² 2 EA 6" OR 1 EA 10"				
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K05-MS				
NOISE LEVEL	64.8 dB(A)	70.5 dB(A)				
AIR TEMPERATURE RISE ¹	25 F (13.9 C)	21 F (11.7 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	1.5 HP	2 HP				
OPERATING POWER 0.82 KW 1.2 KW						
	AIR TEMPERATURE WHEN SPECIFYING URER CUTSHEETS FOR ADDITIONAL ELE					



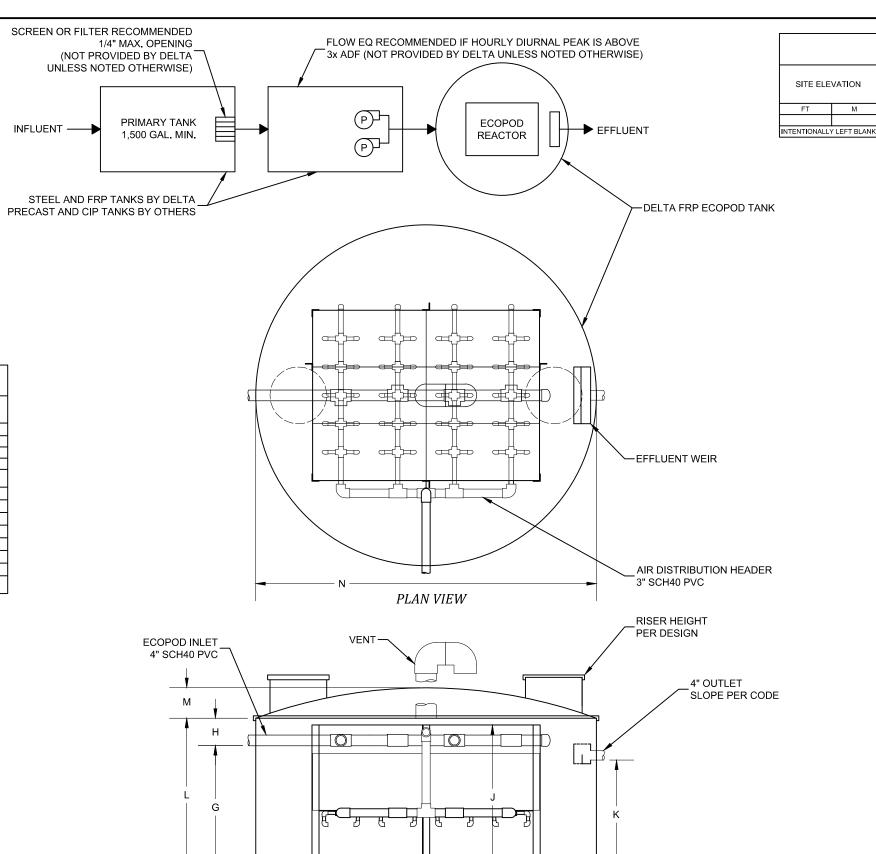


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELEVATION		REACTOR LAYOUT MATERIAL ID		A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	FT M IN CM IN CM		IN	СМ					
ITENTIONALLY LEET BLANK									

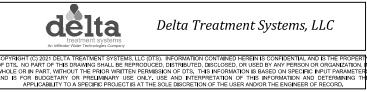
TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS DIMENSION VESSEL FRONT SPACE VESSEL REAR SPACE AIR HEADER SIDE INSID SPACE NO HEADER SIDE INSIDE SPACE INTENTIONALLY LEFT BLANK.

REQUIRED E INTERIOR ENV				
DIMENSION IN CM				
G INLET INVERT	50	127		
H PLENUM SPACE ABOVE INLET INVERT	10	25		
MEDIA REACTOR HEIGHT 59 150				
K OUTLET INVERT 47 119				
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	60	152		
M TANK DOME HEIGHT	12	30		
N TANK DIAMETER ¹ 144 244				
1. PIPE PENETRATIONS E WALL	XTEND 3 IN. FF	ROM TANK		

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$\overline{}$	DESCRIPTION	INITIALS	DATE	NO.
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Delta Treatment Systems, LLC

DELTA ECOPOD E300S-VC STANDARD DESIGN FOR BOD REDUCTION

HORIZ. SCALE	PROJECT NO.
N/A	N/A
VERT. SCALE	DATE
N/A	07/21/2021
DRAWN BY	DESIGNED BY
CGK	AOB
DRAWING NO.	SHEET NO.
C1.0	01 of 01
CGK DRAWING NO.	AOB SHEET NO.

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- DA097.

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 5. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.

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

TABLE 1 PROCESS PARAMETERS DELTA E300D BOD ONLY			
PARAMETER	MINIMUM	MAXIMUM	
AVERAGE DAILY FLOW	-	3,000 GPD	
PEAK DAILY FLOW - 4,500 GPD			
INFLUENT BOD₅	-	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	

TABLE 2 AIR DEMAND			
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	
	AIR TEMPERATURE WHEN SPECIFYING AIR URER CUTSHEETS FOR ADDITIONAL ELECT		

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR 1 DELTA E300D					
BLOWER 1 FPZ PER TABLE 2					
CONTROL PANEL 1 DELTA PER DESIGN					
24" S S EEELHENT WEIR 1 DELTA TROUGH-3.0					

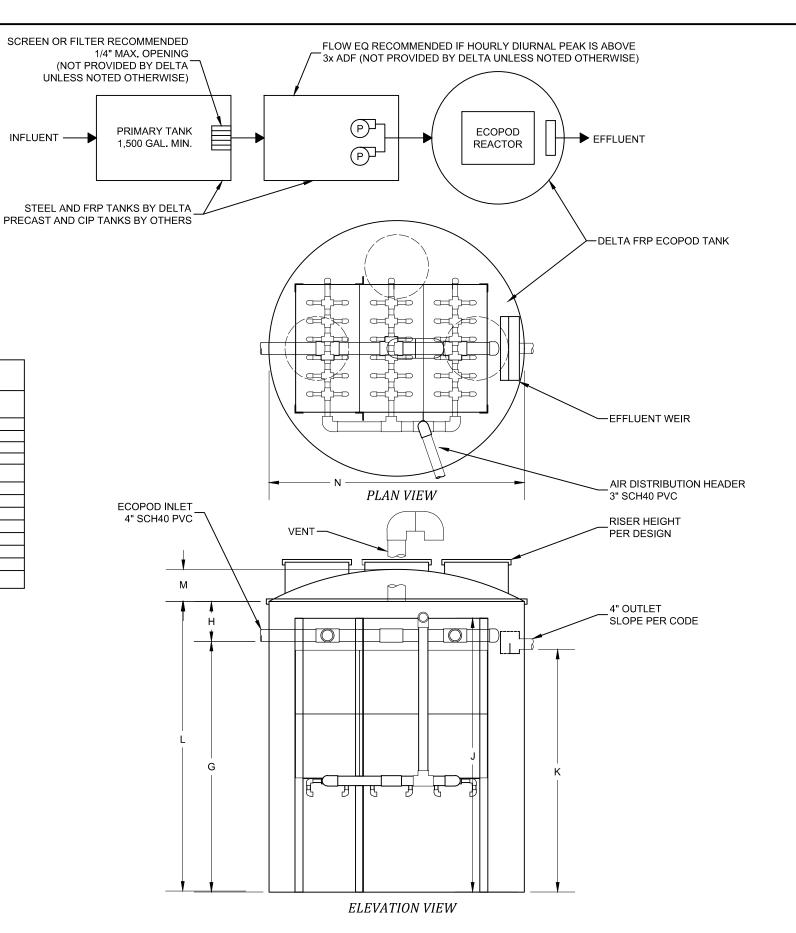


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMENSIONS B1 AIR HEADER SITE ELEVATION OVERALL OVERALL LAYOUT LENGTH CL DIM WIDTH IN CM CM IN CM INTENTIONALLY LEFT BLANK

RECOMMENDE	TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS			
DIMENSION	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 BLA	INTENTIONALLY LEFT BLANK.			

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

RECOMMENDED, 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 96 244				
1. PIPE PENETRATIONS E WALL	XTEND 3 IN. FF	ROM TANK		
WALL				

NO.	DATE	INITIALS	DESCRIPTION	
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				treatment systems An infilitation Water Technologies Company
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DELTA ECOPOD E300D-VC STANDARD DESIGN FOR BOD REDUCTION

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
	VERT. SCALE N/A DRAWN BY CGK DRAWING NO.

- GENERAL NOTES

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 5. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.

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

TABLE 1 PROCESS PARAMETERS DELTA E400D BOD ONLY		
PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	4,000 GPD
PEAK DAILY FLOW	-	6,000 GPD
INFLUENT BOD ₅	-	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 ² 1 EA 6"	27.6 IN ² 1 EA 6"
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K04-MS ³
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)
AIR TEMPERATURE RISE ¹	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 ²	2 HP	2 HP
OPERATING POWER	1.1 KW	1.1 KW
2. REVIEW BLOWER MANUFACT	AIR TEMPERATURE WHEN SPECIFYING URER CUTSHEETS FOR ADDITIONAL ELE GARDNER DENVER 2L ON HIGH ELEVATION	CTRICAL INFORMATION.

PER TABLE 2

PER DESIGN

TROUGH-3.0

TABLE 3 STANDARD EQUIPMENT LIST DESCRIPTION MAKE MODEL ECOPOD REACTOR DELTA E400D

FPZ

DELTA

DELTA

CALCULATIONS FOR DETAILS.

BLOWER

CONTROL PANEL

24" S.S. EFFLUENT WEIR

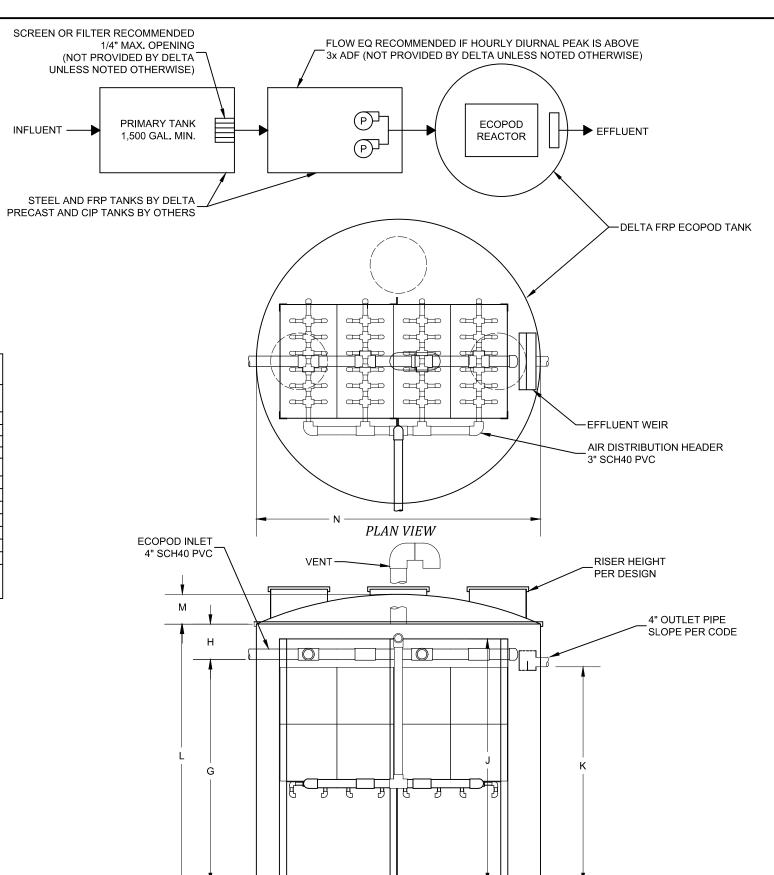


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMÉNSIONS B1 AIR HEADER SITE ELEVATION OVERALL OVERALL LAYOUT LENGTH CL DIM WIDTH IN CM CM IN CM INTENTIONALLY LEFT BLANK

RECOMMENDE	TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS		
DIMENSION	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 BLA	INTENTIONALLY LEFT BLANK.		

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS				
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				
ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS RISER REQUIRED, 24° DIA MINIMUM. ONE (1 EA.) SLUDGE REMOVAL ACCESS RISER RECOMMENDED, 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 102 305				
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL				

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NO.	DATE	INITIALS	DESCRIPTION	
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Delta Treatment Systems, LLC

DELTA ECOPOD E400D-VC STANDARD DESIGN FOR BOD REDUCTION

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

	TABLE 1 PROCESS PARAMETERS DELTA E450D BOD ONLY		
	PARAMETER	MINIMUM	MAXIMUM
Ī	AVERAGE DAILY FLOW	-	4,500 GPD
[PEAK DAILY FLOW	•	7,000 GPD
ſ	INFLUENT BOD ₅	-	11.3 LB/DAY
[AIR TEMPERATURE	•	68 °F
	WATER TEMPERATURE	68 °F	68 °F
[RELATIVE HUMIDITY	10%	90%
ſ	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 ² 1 EA 6"	47.8 IN ² 2 EA 6" OR 1 EA 8"
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K05-MS3
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. 2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION. 3. USE ALTERNATIVE BLOWER GARDNER DENVER 2L ON HIGH ELEVATION RANGE IF REQUIRED. SEE CALCULATIONS FOR DETAILS.

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

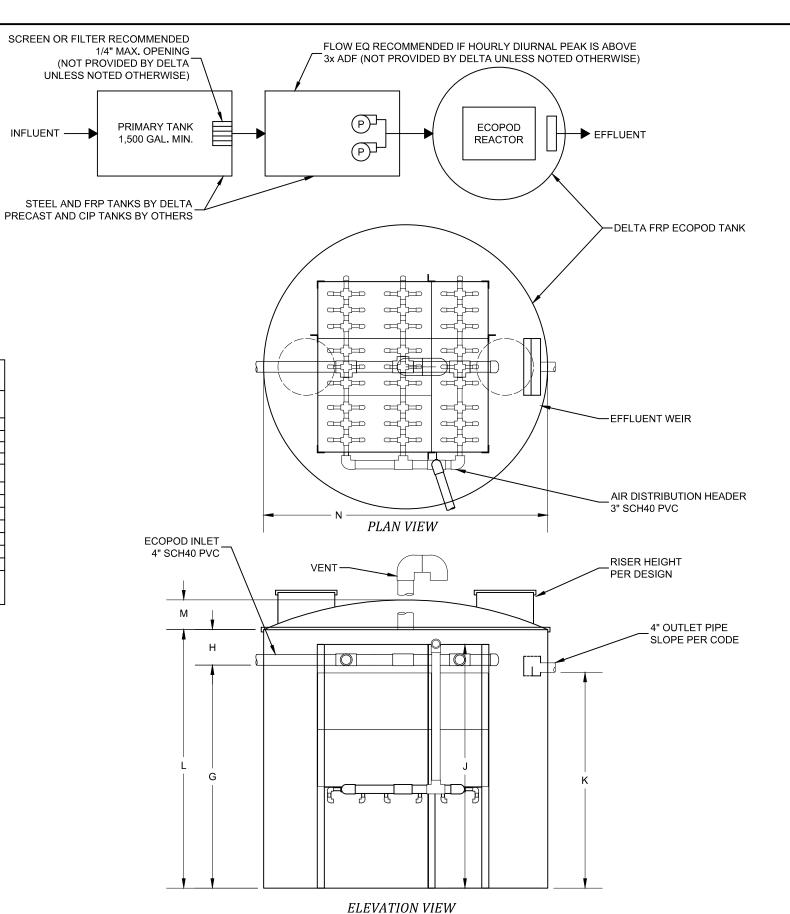


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMENSIONS B1 AIR HEADER SITE ELEVATION OVERALL OVERALL LAYOUT LENGTH CL DIM WIDTH IN CM CM IN CM INTENTIONALLY LEFT BLANK

RECOMMENDE	TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS		
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.			

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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		
ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS RISER REQUIRED, 24" DIA MINIMUM.				

TABLE 7 VC ECOPOD TANK EXTERIOR DIMENSIONS			
DIMENSION IN			
L = G + H TANK WALL HEIGHT	102	259	
M TANK DOME HEIGHT	12	30	
N TANK DIAMETER ¹	120	305	
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL			

NO.	DATE	INITIALS	DESCRIPTION	
				Delta Treatment Systems, LLC
				Delta Treatment Systems, LLC
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				WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE APPLICABILITY OF A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND ITE ENGINEER OF RECORD.



DELTA ECOPOD E450D-VC STANDARD DESIGN FOR BOD REDUCTION

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

- 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 E600D			
PARAMETER	MINIMUM	MAXIMUM	
AVERAGE DAILY FLOW	-	6,000 GPD	
PEAK DAILY FLOW	-	9,000 GPD	
INFLUENT BOD ₅	-	15 LB/DAY	
AIR TEMPERATURE	-	115 °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	73 SCFM	85 SCFM
SITE AIR REQUIREMENT	82 ICFM	102 ICFM
BLOWER INLET AIR	116 ICFM	116 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	47.7 IN ² 2 EA 6" OR 1 EA 8"	47.7 IN ² 2 EA 6" OR 1 EA 8"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS
NOISE LEVEL	70.8 dB(A)	70.8 dB(A)
AIR TEMPERATURE RISE ¹	33 F (18.3 C)	33 F (18.3 C)
BLOWER INLET DIAMETER	2 IN NPT	2 IN NPT
BLOWER OUTLET DIAMETER	2 IN NPT	2 IN NPT
MOTOR POWER RATING ²	3 HP	3 HP
OPERATING POWER	1.7 KW	1.7 KW

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR	1	DELTA	E600D		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA	PER DESIGN		
24" S.S. EEELLIENT WEIR	1	DELTA	TROUGH-3.0		

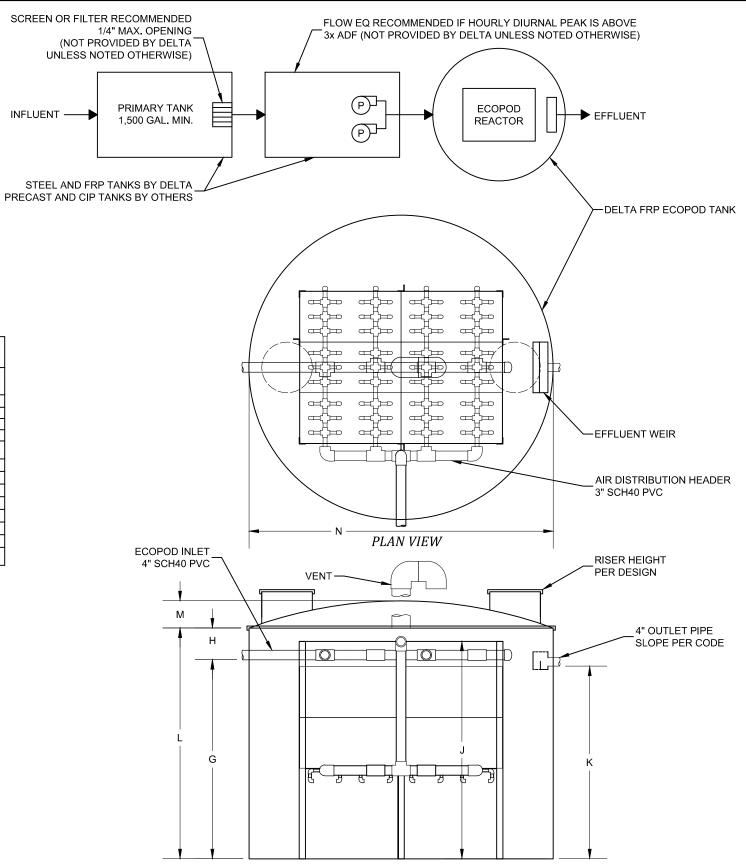


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMÉNSIONS B1 AIR HEADER SITE ELEVATION LAYOUT OVERALL OVERALL LENGTH CL DIM WIDTH IN CM CM IN СМ INTENTIONALLY LEFT BLANK

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

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS			
DIMENSION	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.			

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	144	366	
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL			

NO.	DATE	INITIALS	DESCRIPTION	
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ELEVATION VIEW

Delta Treatment Systems, LLC

DELTA ECOPOD E600D-VC STANDARD DESIGN FOR BOD REDUCTION

\neg	HORIZ, SCALE	PROJECT NO.
١	N/A	N/A
١	VERT. SCALE	DATE
١	N/A	07/21/2021
J	DRAWN BY	DESIGNED BY
٦	CGK	AOB
١	DRAWING NO.	SHEET NO.
	C1.0	01 of 01

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 5. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.

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

TABLE 1 PROCESS PARAMETERS DELTA E800D BOD ONLY MAXIMUM PARAMETER AVERAGE DAILY FLOW 8,000 GPD PEAK DAILY FLOW 12,000 GPD INFLUENT BODS 20 LB/DAY AIR TEMPERATURE 115 °F WATER TEMPERATURE 68 °F 68 °F 90% 3,000 FT AMSL SITE ELEVATION

TABLE 2 AIR DEMAND			
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL	
STANDARD AIRFLOW	97 SCFM	113 SCFM	
SITE AIR REQUIREMENT	109 ICFM	136 ICFM	
BLOWER INLET AIR	116 ICFM	169 ICFM	
AIR HEADER SIZE	3 IN	3 IN	
MIN. TANK VENT X-SECT. AREA	47.8 IN ² 2 EA 6" OR 1 EA 8"	69.6 IN ² 2 EA 8" OR 1 EA 10"	
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K06-MS	
NOISE LEVEL	70.8 dB(A)	73.3 dB(A)	
AIR TEMPERATURE RISE ¹	33 F (18.3 C)	32 F (17.8 C)	
BLOWER INLET DIAMETER	2 IN NPT	2 IN NPT	
BLOWER OUTLET DIAMETER	2 IN NPT	2 IN NPT	
MOTOR POWER RATING ²	3 HP	4 HP	
OPERATING POWER	1.7 KW	2.6 KW	
REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.			

TABLE 3 STANDARD EQUIPMENT LIST			
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E800D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	PER DESIGN
24" S.S. EFFLUENT WEIR	1	DELTA	TROUGH-3.0

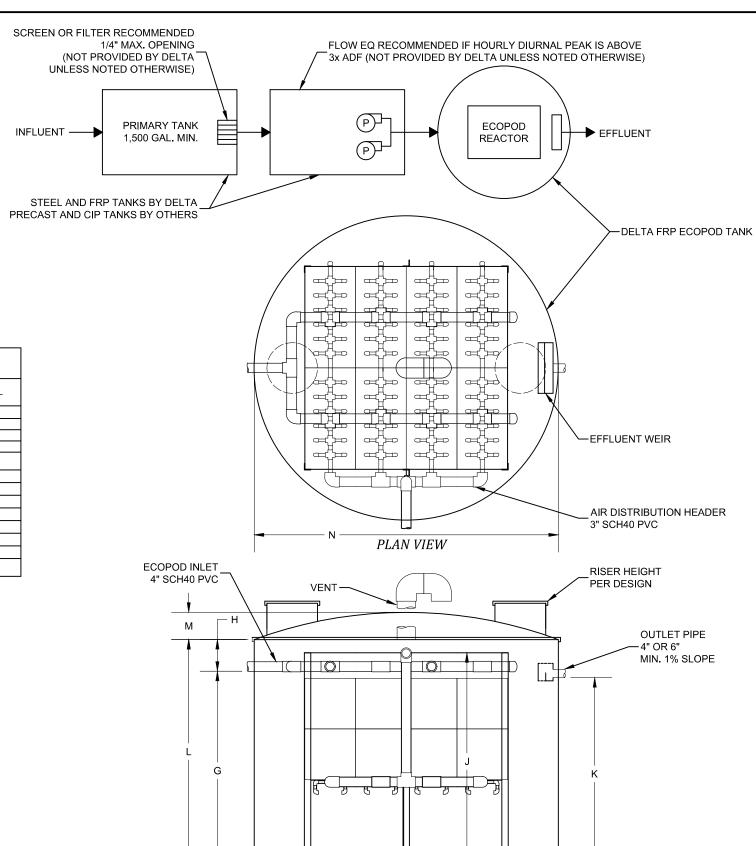


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TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS		
DIMENSION	IN	СМ
C VESSEL FRONT SPACE		
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F NO HEADER SIDE INSIDE SPACE		
INTENTIONALLY LEFT BLANK.		

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS			
DIMENSION	IN	СМ	
G INLET INVERT	92	234	
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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			
IN	СМ		
102	259		
12	30		
144	366		
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL			
	POD TANK DIMENSIC IN 102 12		

NO. [DATE I	INITIALS	DESCRIPTION	
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ELEVATION VIEW

DELTA ECOPOD E800D-VC STANDARD DESIGN FOR BOD REDUCTION

7	HORIZ. SCALE	PROJECT NO.
П	N/A	N/A
ı	VERT. SCALE	DATE
ı	N/A	07/21/2021
J	DRAWN BY	DESIGNED BY
1	CGK	AOB
ı	DRAWING NO.	SHEET NO.
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