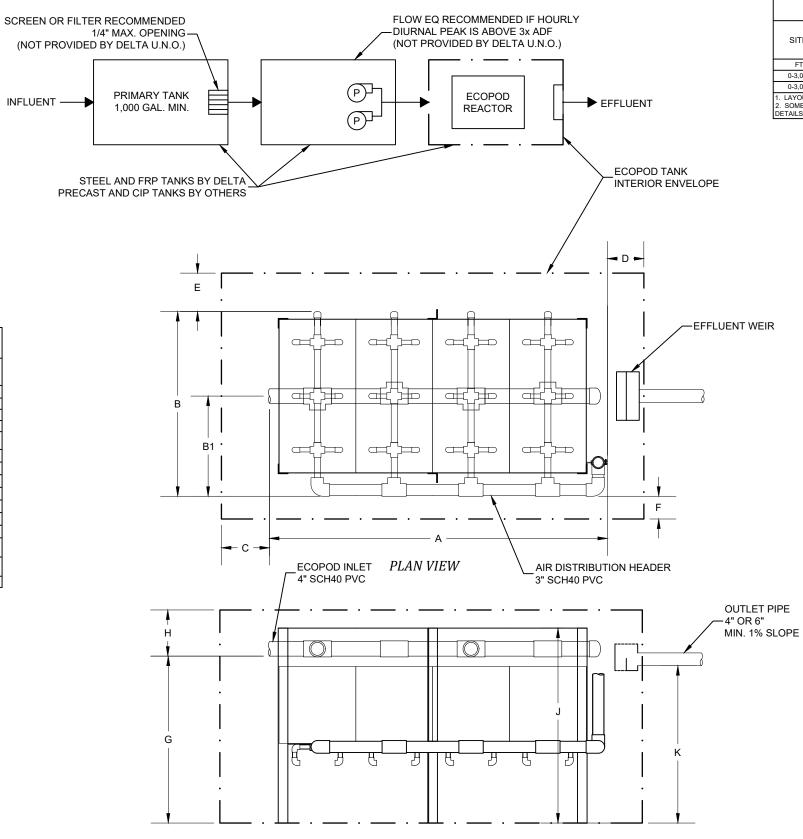
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 ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
 TANK MATERIAL OPTIONS:
 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS,
 3.2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL 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,
 3.5. BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.
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TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	2,000 GPD			
PEAK DAILY FLOW	-	3,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	5 LB BOD ₅ /DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °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	57 SCFM				
SITE AIR REQUIREMENT	55 ICFM	68 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	22 F (12.2 C)	25 F (13.9 C)				
BLOWER INLET DIAMETER	1.25 NPT	1.5 NPT				
BLOWER OUTLET DIAMETER	1.25 NPT	1.5 NPT				
MOTOR SELECTION	2 HP	1.5 HP				
OPERATING POWER	1 HP	1.1 HP				
STARTING CURRENT	96/48.2 A @ 115-208/230V 1-PH 60HZ 51.9/25.9 A @ 208-230/460V 3-PH 60HZ	49.3/23.2 A @ 115-208/230V 1-PH 60H 40.5/20.2 A @ 208-230/460V 3-PH 60H				
FULL LOAD CURRENT	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ	14.6/7.6 A @ 115-208/230V 1-PH 60H 4.35/2.17 A @ 208-230/460V 3-PH 60I				

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION	QTY	MAKE	MODEL		
ECOPOD REACTOR	1	DELTA	E200S		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



HORIZ. SCALE N/A VERT. SCALE N/A	PROJECT NO. N/A DATE 02/11/2021
N/A	02/11/2021
DRAWN BY	DESIGNED BY
CGK	AOB
DRAWING NO.	SHEET NO.
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELEVATION		REACTOR MATERIAL	LAYOUT ID			B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	М	1		IN	CM	IN	CM	IN	CM
0-3,000	0-914	HDPE	1	106	70	60	153	33	84
0-3,000	0-914	SS	1	154	392	56	143	32	82
AYOUT 1 (SS) SHOWN IN PLAN VIEW. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR AILS.									

TABLE 5 RECOMMENDED ECOPOD TAI INTERIOR ENVELOPE DIMENSI					
DIMENSION	IN	СМ			
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			

TABLE 6
REQUIRED ECOPOD TANK
INTERIOR ENVELOPE MINIMUM
DIMENSIONS

DIMENSION	IN	СМ		
G INLET INVERT	50	127		
H PLENUM SPACE ABOVE INLET INVERT	10	25		
J MEDIA REACTOR HEIGHT	59	150		
K OUTLET INVERT	47	119		
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.				

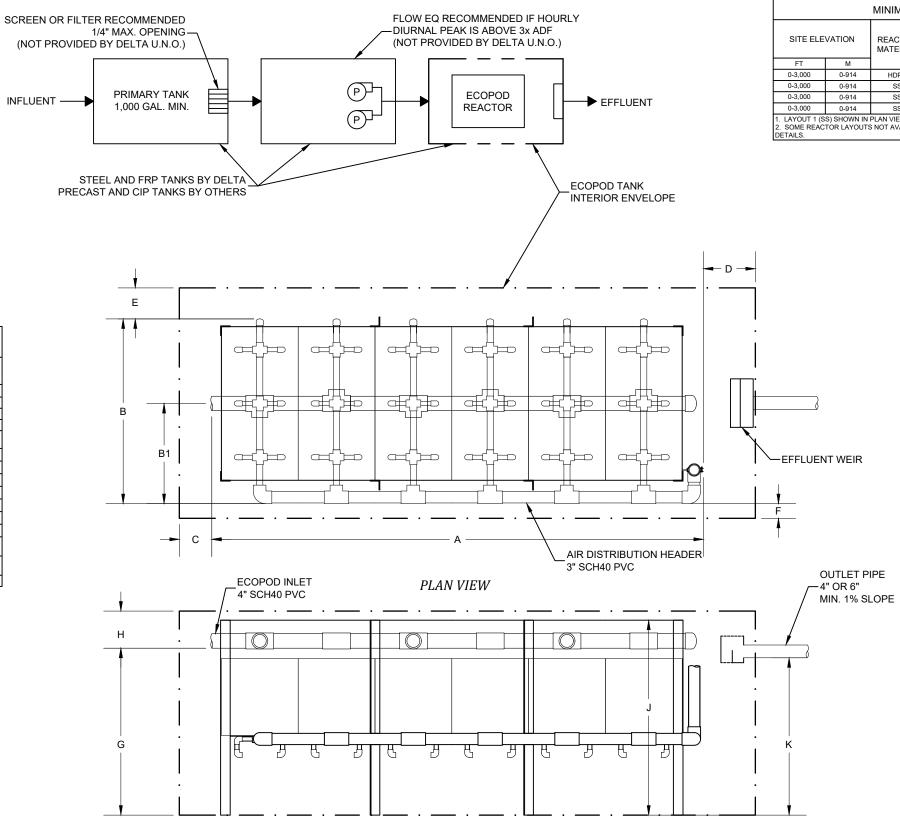
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TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	2,000 GPD			
PEAK DAILY FLOW	-	3,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	5 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °F			
RELATIVE 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	92 SCFM	107 SCFM				
SITE AIR REQUIREMENT	103 ICFM	128 ICFM				
BLOWER INLET AIR	130 ICFM	130 ICFM				
AIR HEADER SIZE	3 IN	3 IN				
MIN. TANK VENT X-SECT. AREA	53.5 IN ² 2 EA 6" OR 1 EA 10"	53.5 IN ² 2 EA 6" OR 1 EA 10"				
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS				
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)				
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)				
BLOWER INLET DIAMETER	2 NPT	2 NPT				
BLOWER OUTLET DIAMETER	2 NPT	2 NPT				
MOTOR SELECTION	2 HP	2 HP				
OPERATING POWER	1.6 HP	1.6 HP				
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ				
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ				

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION	QTY	MAKE	MODEL		
ECOPOD REACTOR	1	DELTA	E200S-N		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



N	DATE	INITIALS	DESCRIPTION					
							HORIZ. SCALE	PROJECT NO.
	-					DELTA ECOPOD E200S-N	N/A	N/A
				delta	Delta Treatment Systems, LLC		VERT. SCALE	DATE
				actia	standard Design For Bod And NITRIFICATION	STANDARD DESIGN FOR BOD AND NITRIFICATION	N/A	02/11/2021
				An Infiltrator Water Technologies Company			DRAWN BY	DESIGNED BY
	_			COPYRIGHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS), INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY			CGK	AOB
	_				CED. DISTRIBUTED. DISCLOSED. OR USED BY ANY PERSON OR ORGANIZATION. IN		DRAWING NO.	SHEET NO.
					ISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS			
					USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE		C1.0	01 of 01
				APPLICABILITY TO A SPECIFIC PROJECT IS AT THE	E SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		••	•••••

B B1						
SITE ELEVATION REACTOR LAYOUT OVERALL OVERALL AIR HEADER MATERIAL ID LENGTH WIDTH CL DIM						
IN CM IN CM						
60 153 33 84						
56 143 32 82						
106 270 56 143						
82 209 44 112						

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS				
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		

TABLE 6
REQUIRED ECOPOD TANK
INTERIOR ENVELOPE MINIMUM
DIMENSIONS

DIMENSION	IN	СМ	
G INLET INVERT	50	127	
H PLENUM SPACE ABOVE INLET INVERT	10	25	
J MEDIA REACTOR HEIGHT	59	150	
K OUTLET INVERT	47	119	
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.			

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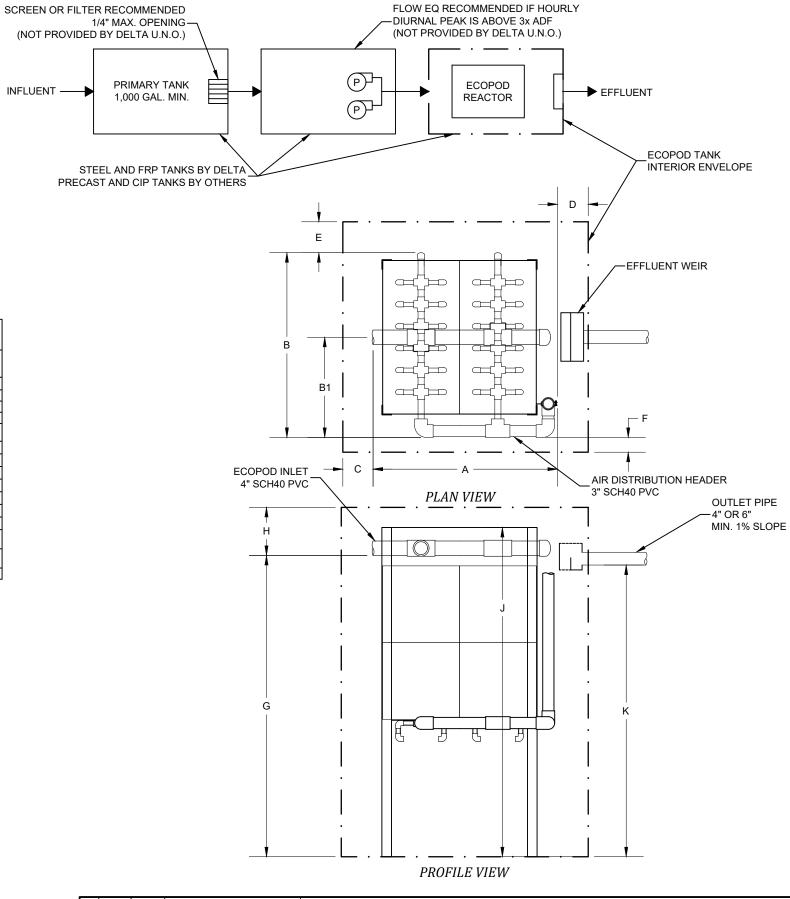
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- 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS,
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 3.4. DASTON DELTA STANDARDS AND VARIOUS SMALL PARTS WILL BE SHIPPED
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 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. SYSTEMS BASED ON
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 DEVIATING
 FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

TABLE 1 PROCESS PARAMETERS				
PARAMETER MINIMUM MAXIMUM				
AVERAGE DAILY FLOW	-	2,000 GPD		
PEAK DAILY FLOW	-	3,000 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	5 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °F		
RELATIVE HUMIDITY	10%	90%		
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL		

UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
	1,000 1 0 0,000 1 1 / WICE
22 SCFM	28 SCFM
27 ICFM	34 ICFM
29 ICFM	50 ICFM
3 IN	3 IN
12 IN ² 1 EA 4"	21 IN ² 2 EA 4" OR 1 EA 6"
FPZ SCL R20-MD	FPZ SCL R30-MD
68.5 dB(A)	72.2 dB(A)
42 F (23.3 C)	29 F (16.1 C)
1.25 NPT	1.25 NPT
1.25 NPT	1.25 NPT
1.5 HP	2 HP
0.77 HP	1.25 HP
71.1/35 A @ 115-208/230V 1-PH 60HZ 40.9/20.4 A @ 208-230/460V 3-PH 60HZ	96/48.2 A @ 115-208/230V 1-PH 60HZ 52.2/26.1 A @ 208-230/460V 3-PH 60HZ
14.3/7.2 A @ 115-208/230V 1-PH 60HZ 4.4/2.2 A @ 208-230/460V 3-PH 60HZ	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ
	29 ICFM 3 IN 12 IN ² 1 EA 4" FPZ SCL R20-MD 68.5 dB(A) 42 F (23.3 C) 1.25 NPT 1.25 NPT 1.25 NPT 1.5 HP 0.77 HP 71.1/35 A @ 115-208/230V 1-PH 60HZ 40.9/20.4 A @ 208-230/460V 3-PH 60HZ

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION QTY MAKE MODEL				
ECOPOD REACTOR	1	DELTA	E200D	
BLOWER	1	FPZ	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



NO.	DATE	INITIALS	DESCRIPTION		
	DATE			Delta Treatment Systems, LLC	STANDAR
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	SITE ELEVATION LAYOUT OVERALL OVERALL UNDER UNDE				AIR H	31 EADER DIM		
FT	м		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	58	148	58	148	32	82
1. LAYOUT 1 SHOWN IN PLAN VIEW. 2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS				
DIMENSION	IN	СМ		
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		

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

	HORIZ. SCALE	PROJECT NO.
DELTA ECOPOD E200D	N/A	N/A
	VERT. SCALE	DATE
ARD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
	DRAWN BY	DESIGNED BY
	CGK	AOB
GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO.
GENERAL ARRANGEMENT	C1.0	01 of 01

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- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WCOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
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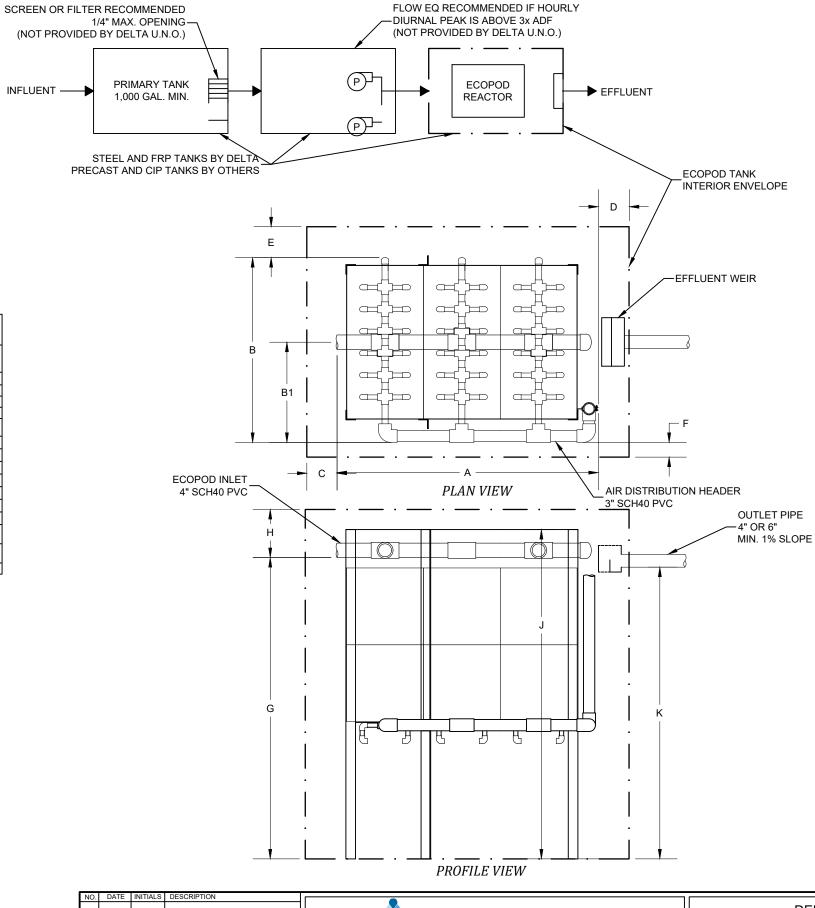
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PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	2,000 GPD			
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PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	5 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °F			
RELATIVE HUMIDITY	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	46 SCFM	53 SCFM				
SITE AIR REQUIREMENT	52 ICFM	64 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				
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)				
AIR TEMPERATURE RISE	41 F (22.8 C)	41 F (22.8 C)				
BLOWER INLET DIAMETER	1.5 NPT	1.5 NPT				
BLOWER OUTLET DIAMETER	1.5 NPT	1.5 NPT				
MOTOR SELECTION	2 HP	2 HP				
OPERATING POWER	1.5 HP	1.5 HP				
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60H2 54.2/27.0 A @ 208-230/460V 3-PH 60H				
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60H 5.8/2.9 A @ 208-230/460V 3-PH 60HZ				

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION	QTY	MAKE	MODEL	
ECOPOD REACTOR	1	DELTA	E200D-N	
BLOWER	1	FPZ	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



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APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	L

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	82	209	59	150	32	82
0-3,000	0-914	2	69	176	83	211	44	112
1. LAYOUT 1 SHOWN IN PLAN VIEW. 2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS				
DIMENSION	IN	СМ		
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		

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

DELTA ECOPOD E200D-N D DESIGN FOR BOD AND NITRIFICATION	HORIZ. SCALE N/A VERT. SCALE N/A DRAWN BY	PROJECT NO. N/A DATE 02/11/2021 DESIGNED BY
GENERAL ARRANGEMENT	cgk drawing no. C1.0	AOB SHEET NO. 01 of 01

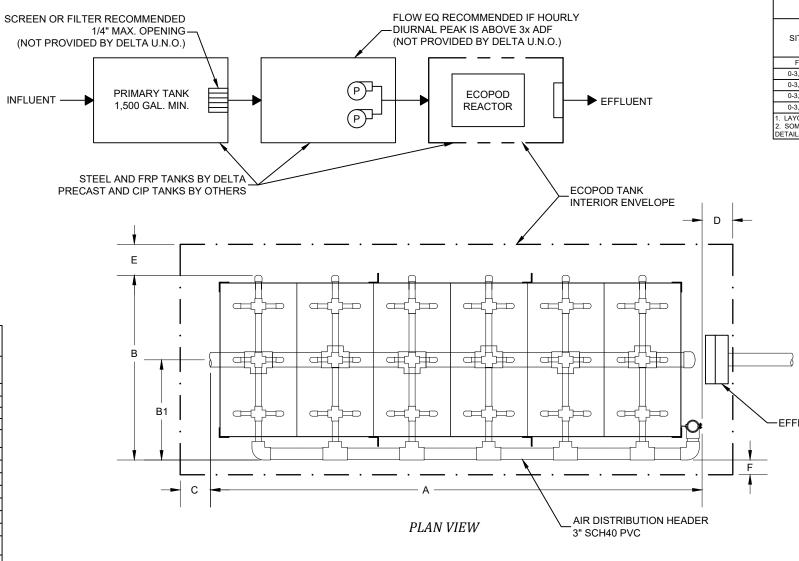
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 ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
 TANK MATERIAL OPTIONS:
 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS,
 3.2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL 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,
 3.5. 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.

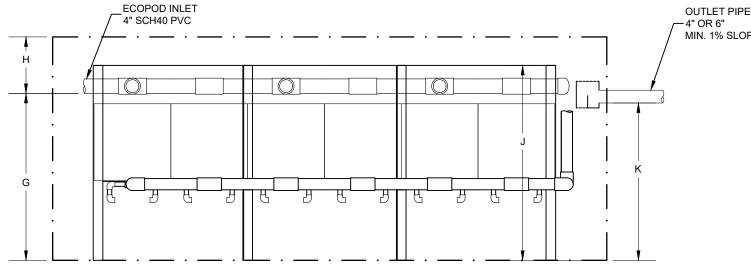
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TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	3,000 GPD		
PEAK DAILY FLOW	-	4,500 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	7.5 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °F		
RELATIVE 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	25 F (13.9 C)	21 F (11.7 C)				
BLOWER INLET DIAMETER	1.5 NPT	2 NPT				
BLOWER OUTLET DIAMETER	1.5 NPT	2 NPT				
MOTOR SELECTION	1.5 HP	2 HP				
OPERATING POWER	1.1 HP	1.6 HP				
STARTING CURRENT	49.3/23.2 A @ 115-208/230V 1-PH 60HZ 40.5/20.2 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60H 54.2/27.0 A @ 208-230/460V 3-PH 60H				
FULL LOAD CURRENT	14.6/7.6 A @ 115-208/230V 1-PH 60HZ 4.35/2.17 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60F 5.8/2.9 A @ 208-230/460V 3-PH 60H				

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION	QTY	MAKE	MODEL	
ECOPOD REACTOR	1	DELTA	E300S	
BLOWER	1	FPZ	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	





NO	DATE	INITIALS	DESCRIPTION				
					DELTA ECOPOD E300S	HORIZ. SCALE	PROJECT NO.
				Delta Treatment Systems, LLC		N/A	N/A
				OCILA Della Treatment Systems, LLC STANDAR	RD DESIGN FOR BOD REDUCTION	VERT. SCALE	DATE
				treatment systems		N/A	02/11/2021
	1			An Infiltrator Water Technologies Company		DRAWN BY	DESIGNED BY
	-			COPYRIGHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS), INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY		CGK	AOB
				OF DTS. NO PÁRT OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN	GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO.
				WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS		C1 0	01 of 01
				APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		C1.0	01 of 01

B B1 OVERALL AIR HEADER	4					
WIDTH CL DIM	A LAYOUT OVERALL ID LENGTH		REACTOR LAYOUT OVERALL		VATION	SITE ELE
IN CM IN CM	IN		1	М	FT	
60 153 33 84	160	1	HDPE	0-914	0-3,000	
56 143 32 82	154	1	SS	0-914	0-3,000	
107 272 56 143	93	2	SS	0-914	-3,000	
83 211 44 112	117	3	SS	0-914	-3,000	
56 143 32 107 272 56	154 93 117	3	SS SS SS PLAN VIEW.	0-914 0-914 0-914 S) SHOWN IN		

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS			
DIMENSION	IN	СМ	
C VESSEL FRONT SPACE	12	30	
D VESSEL REAR SPACE	18	46	
E AIR HEADER SIDE INSIDE SPACE	6	15	
	e	15	

SPACE 1: ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

REQUIRED E			
DIMENSION	IN	СМ	
G INLET INVERT	50	127	
H PLENUM SPACE ABOVE INLET INVERT	10	25	
J MEDIA REACTOR HEIGHT	59	150	
K OUTLET INVERT 47 119			
1. ONE (1 EA.) INLET AND ACCESS HATCH REQUIRE			

-EFFLUENT WEIR

OUTLET PIPE MIN. 1% SLOPE

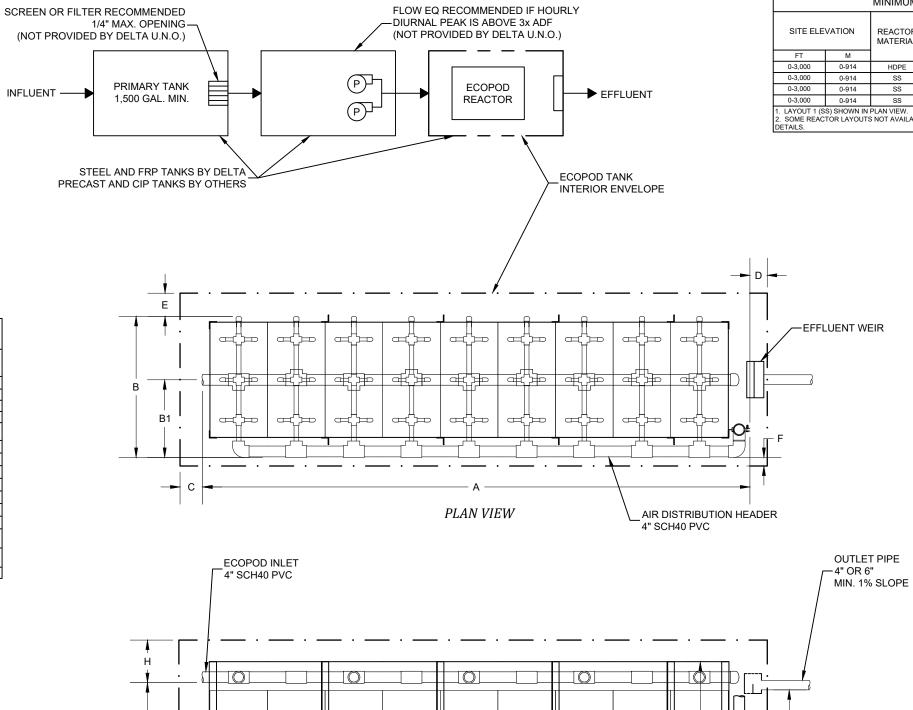
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TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	3,000 GPD		
PEAK DAILY FLOW	-	4,500 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	7.5 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °F		
RELATIVE 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	125 SCFM	145 SCFM
SITE AIR REQUIREMENT	140 ICFM	174 ICFM
BLOWER INLET AIR	187 ICFM	187 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	77 IN ² 2 EA 8" OR 1 EA 10"	77 IN ² 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K06-MS	FPZ_SCL K06-MS
NOISE LEVEL	73.0 dB(A)	73.0 dB(A)
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	3 HP	3 HP
OPERATING POWER	2.6 HP	2.6 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60 88.9/44.4 A @ 208-230/460V 3-PH 60H
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60 8.31/4.15 A @ 208-230/460V 3-PH 60

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION QTY MAKE MODEL				
ECOPOD REACTOR	1	DELTA	E300S-N	
BLOWER	1	FPZ	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



 . G			
	را ای وا ای وا. 		
	PROFI	ILE VIEW	

N	D. DATE	INITIALS	DESCRIPTION					
							HORIZ. SCALE	PROJECT NO.
	-					DELTA ECOPOD E300S-N	N/A	N/A
	-			delta	Delta Treatment Systems, LLC		VERT. SCALE	DATE
_				treatment systems	5	STANDARD DESIGN FOR BOD AND NITRIFICATION	N/A	02/11/2021
				An Infiltrator Water Technologies Company			DRAWN BY	DESIGNED BY
				COPVPICHT (C) 2020 DELTA TREATMENT SYSTEMS (LC (DTS)	INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY		CGK	AOB
	_			OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODUCED,	DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN		DRAWING NO.	SHEET NO.
					ON OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS E AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE		010	04 - 5 04
	_				LE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		C1.0	01 of 01

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELEVATION REACTOR LAYOUT A B B1 MATERIAL ID LENGTH WIDTH CL DIM				EADER					
FT	М	1		IN	CM	IN	CM	IN	CM
0-3,000	0-914	HDPE	1	240	610	61	155	34	87
0-3,000	0-914	SS	1	228	580	60	153	33	84
0-3,000	0-914	SS	2	143	364	108	275	57	145
0-3,000	0-914	SS	3	167	425	84	214	45	115
	S) SHOWN IN	PLAN VIEW. S NOT AVAILABLI	E IN FIBERGLA	ASS TANKS	. CONTAC	T AN IWT/D	ELTA REPF	RESENTATI	/E FOR

TAE RECOMMENDE INTERIOR ENVEL		
DIMENSION	IN	СМ
C VESSEL FRONT SPACE	12	30
D VESSEL REAR SPACE	18	46
E AIR HEADER SIDE INSIDE SPACE	6	15

1: ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

6

15

NO HEADER SIDE INSIDE

SPACE

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS DIMENSION IN СМ 50 127 INLET INVERT PLENUM SPACE ABOVE 10 25 J MEDIA REACTOR HEIGH 59 150 47 119 K OUTLET INVERT 1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.

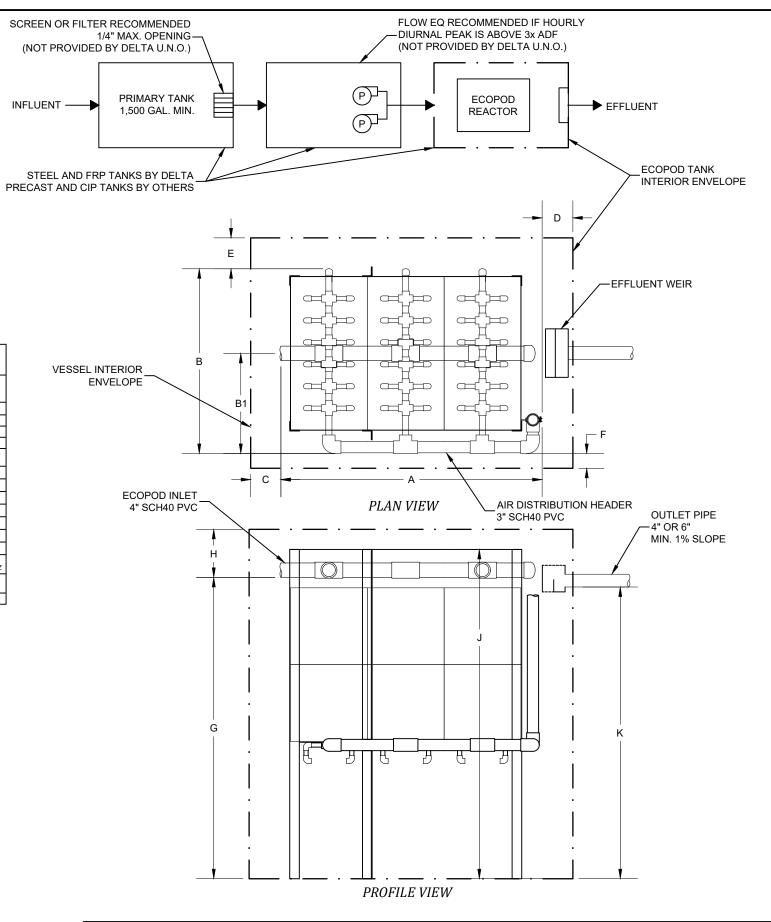
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- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WICOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FREP) (NOT ALL MODELS);
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TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	3,000 GPD		
PEAK DAILY FLOW	-	4,500 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	7.5 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °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	29 F (16.1 C)	29 F (16.1 C)
BLOWER INLET DIAMETER	1.25 NPT	1.25 NPT
BLOWER OUTLET DIAMETER	1.25 NPT	1.25 NPT
MOTOR SELECTION	2 HP	2 HP
OPERATING POWER	1.25 HP	1.25 HP
STARTING CURRENT	96/48.2 A @ 115-208/230V 1-PH 60HZ 51.9/25.9 A @ 208-230/460V 3-PH 60HZ	96/48.2 A @ 115-208/230V 1-PH 60HZ 52.2/26.1 A @ 208-230/460V 3-PH 60H
FULL LOAD CURRENT	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR 1 DELTA E3					
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



NO.	DATE	INITIALS	DESCRIPTION		
				Delta Delta Treatment Systems, LLC	
				treatment systems	STANDAR
				An miniatar water recardingles company	
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	-			ALL EXAMPLET TO A OF EXPLOYED AT THE SOLE DISCRETION OF THE SERVINDICK THE ENGINEER OF RECORD.	L

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	82	209	59	150	32	82
0-3,000	0-914	2	69	176	83	211	44	112
LAYOUT 1 SHOWN IN PLAN VIEW. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA DEPERSENTATIVE CAD DETAILS.								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
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			

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

	HORIZ. SCALE	PROJECT NO.
DELTA ECOPOD E300D	N/A	N/A
	VERT. SCALE	DATE
RD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
	DRAWN BY	DESIGNED BY
	CGK	AOB
GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO.
	C1.0	01 of 01

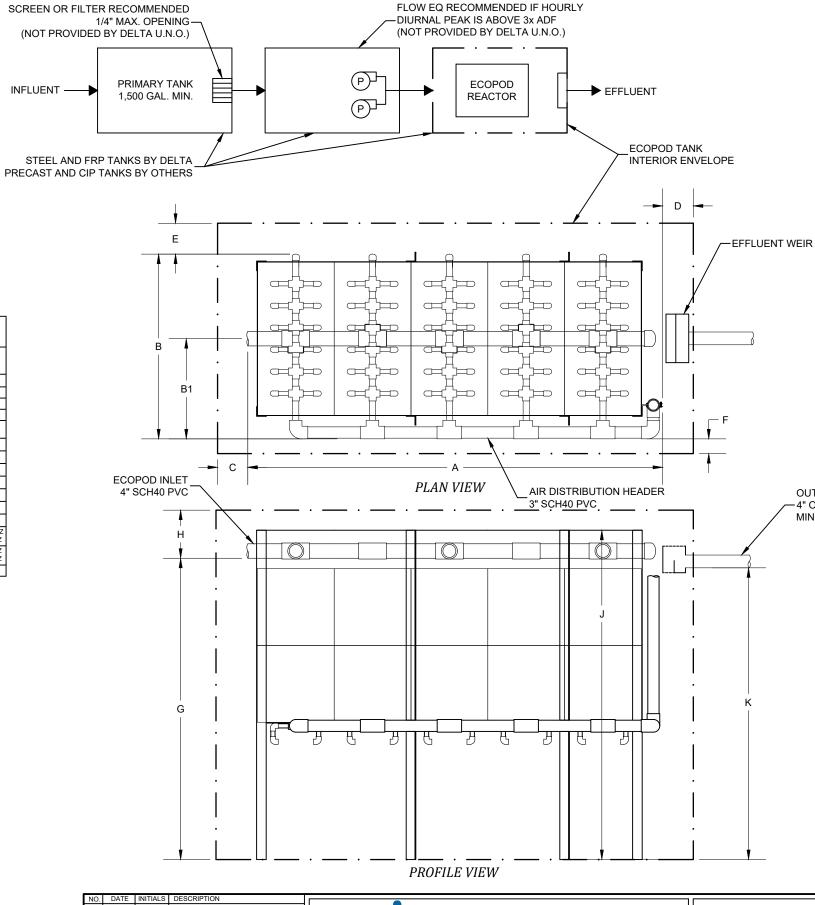
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TABLE 1 PROCESS PARAMETERS					
PARAMETER MINIMUM MAXIMUM					
AVERAGE DAILY FLOW	-	3,000 GPD			
PEAK DAILY FLOW	-	4,500 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	7.5 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °F			
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	69 SCFM	80 SCFM				
SITE AIR REQUIREMENT	77 ICFM	96 ICFM				
BLOWER INLET AIR	116 ICFM	116 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"	47.8 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	33 F (18.3 C)	33 F (18.3 C)				
BLOWER INLET DIAMETER	2 NPT	2 NPT				
BLOWER OUTLET DIAMETER	2NPT	2NPT				
MOTOR SELECTION	3 HP	3 HP				
OPERATING POWER	2.25 HP	2.25 HP				
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60 88.9/44.4 A @ 208-230/460V 3-PH 60H				
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60H 8.31/4.15 A @ 208-230/460V 3-PH 60H				

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR	1	DELTA	E300D-N		
BLOWER 1 FPZ PER TABLE 2					
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



NO.			DESCRIPTION		
NO.	DAIL	INTIALS			
				delta Delta Treatment Systems, LLC	
				treatment systems An Infiltrator Water Technologies Company	
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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 TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	SITE ELEVATION LAYOUT OVERALL OVERALL AIR HEADI ID LENGTH WIDTH CL DIM				EADER			
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	130	331	59	150	32	82
0-3,000	0-914	2	93	237	107	272	56	143
0-3,000 0-914 3 93 237 83 211 44 112						112		
1. LAYOUT 1 SHOWN IN PLAN VIEW. 2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ
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

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

DELTA ECOPOD E300D-N DARD DESIGN FOR BOD AND NITRIFICATION	HORIZ. SCALE N/A VERT. SCALE N/A	PROJECT NO. N/A DATE 02/11/2021
GENERAL ARRANGEMENT	DRAWN BY CGK DRAWING NO. C1.0	DESIGNED BY AOB SHEET NO. 01 of 01

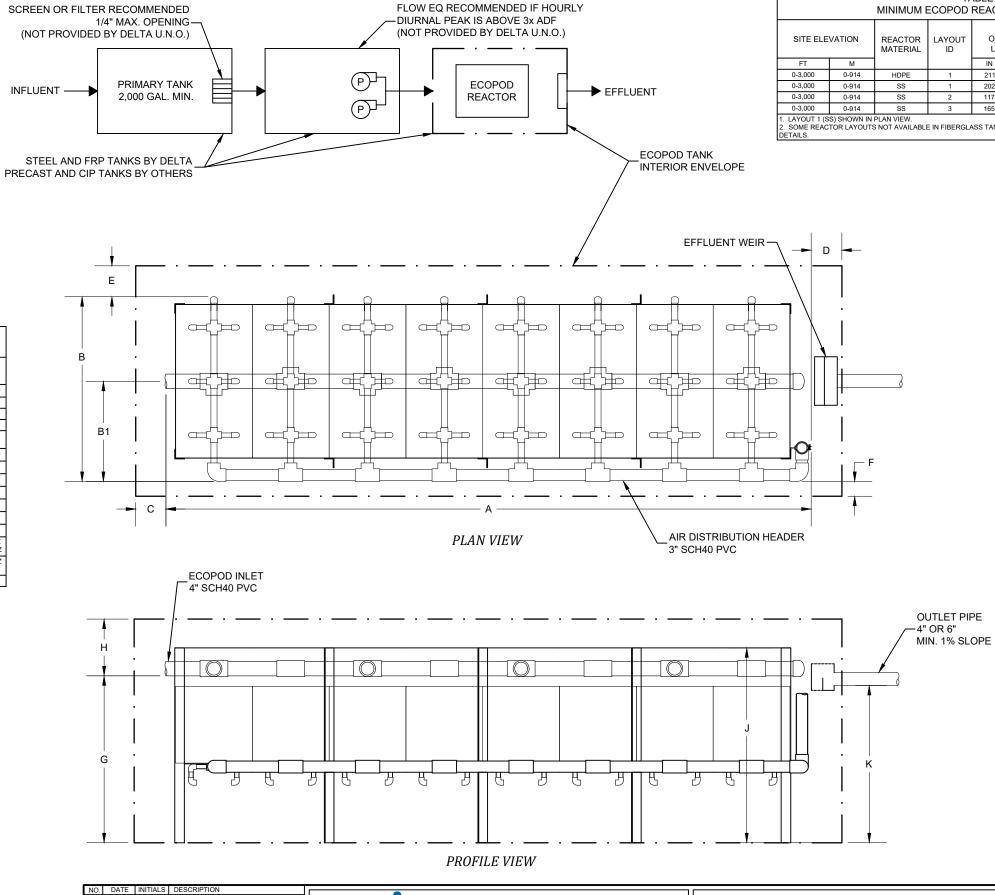
- GENERAL NOTES 1. THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1
- IN TABLE 1.
 ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
 TANK MATERIAL OPTIONS:
 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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,
 3.5. 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.

- 5
- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS. STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	4,000 GPD			
PEAK DAILY FLOW	-	6,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	10 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °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	88 SCFM	102 SCFM			
SITE AIR REQUIREMENT	99 ICFM	129 ICFM			
BLOWER INLET AIR	130 ICFM	130 ICFM			
AIR HEADER SIZE	3 IN	3 IN			
MIN. TANK VENT X-SECT. AREA	53.5 IN ² 2 EA 6" OR 1 EA 10"	53.5 IN ² 2 EA 6" OR 1 EA 10"			
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS			
NOISE LEVEL	70.5 dB(A)	70.5 dB(A)			
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)			
BLOWER INLET DIAMETER	2 NPT	2 NPT			
BLOWER OUTLET DIAMETER	2 NPT	2 NPT			
MOTOR SELECTION	2 HP	2 HP			
OPERATING POWER	1.6 HP	1.6 HP			
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60 54.2/27.0 A @ 208-230/460V 3-PH 60			
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60 5.8/2.9 A @ 208-230/460V 3-PH 60			

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION	QTY	MAKE	MODEL		
ECOPOD REACTOR	1	DELTA	E400S		
BLOWER	1	FPZ	PER TABLE 5		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		

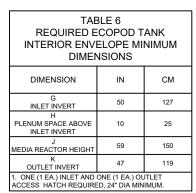


NO.	DATE	INITIALS	DESCRIPTION					
						DELTA ECOPOD E400S	HORIZ. SCALE	PROJECT NO.
						DELTA ECOPOD E4005	N/A	N/A
				delta	Delta Treatment Systems, LLC		VERT. SCALE	DATE
				treatment systems	<i>y</i> ,	STANDARD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
				An Infiltrator Water Technologies Company			DRAWN BY	DESIGNED BY
				CORVEICHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DT	S). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY		CGK	AOB
				OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODUC	ED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN		DRAWING NO.	SHEET NO.
					SSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS	GENERAL ARRANGEMENT	04.0	a 4 ca 4
					USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	1	C1.0	01 of 01
					Sole blocke hold of the operation of the endineer of the option.]

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS										
VATION	REACTOR MATERIAL	LAYOUT ID	A OVERALL LENGTH		OVERALL		OVE	RALL	AIR HE	81 EADER DIM
М	1		IN	CM	IN	CM	IN	CM		
0-914	HDPE	1	211	536	60	153	33	84		
0-914	SS	1	202	514	59	150	32	82		
0-914	SS	2	117	298	107	272	56	143		
0-914	SS	3	165	420	83	211	44	112		
	M 0-914 0-914 0-914	VATION REACTOR MATERIAL 0-914 HDPE 0-914 SS 0-914 SS	VATION REACTOR LAYOUT 0-914 HDPE 1 0-914 SS 1 0-914 SS 2	MINIMUM ECOPOD REACTOR VATION REACTOR MATERIAL LAYOUT ID OVEL LEN M IN IN 0-914 HDPE 1 211 0-914 SS 1 202 0-914 SS 2 117	MINIMUM ECOPOD REACTOR DIM VATION REACTOR MATERIAL LAYOUT ID A OVERALL LENGTH M 0-914 HDPE 1 211 536 0-914 SS 1 202 514 0-914 SS 2 117 298	MINIMUM ECOPOD REACTOR DIMENSION VATION REACTOR MATERIAL LAYOUT ID A OVERALL LENGTH E OVERALL LENGTH M IN CM IN 0-914 HDPE 1 211 536 60 0-914 SS 1 202 514 59 0-914 SS 2 117 298 107	MINIMUM ECOPOD REACTOR DIMENSIONS VATION REACTOR MATERIAL LAYOUT ID A OVERALL LENGTH B OVERALL WIDTH M CM N CM 0-914 HDPE 1 211 536 60 153 0-914 SS 1 202 514 59 150 0-914 SS 2 117 298 107 272	MINIMUM ECOPOD REACTOR DIMENSIONS VATION REACTOR MATERIAL LAYOUT ID A OVERALL LENGTH B OVERALL LENGTH B OVERALL WIDTH AIR HE AIR HE CL M		

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
DIMENSION	IN	СМ			
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.



- 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
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 ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
 TANK MATERIAL OPTIONS:
 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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,
 3.5. BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.
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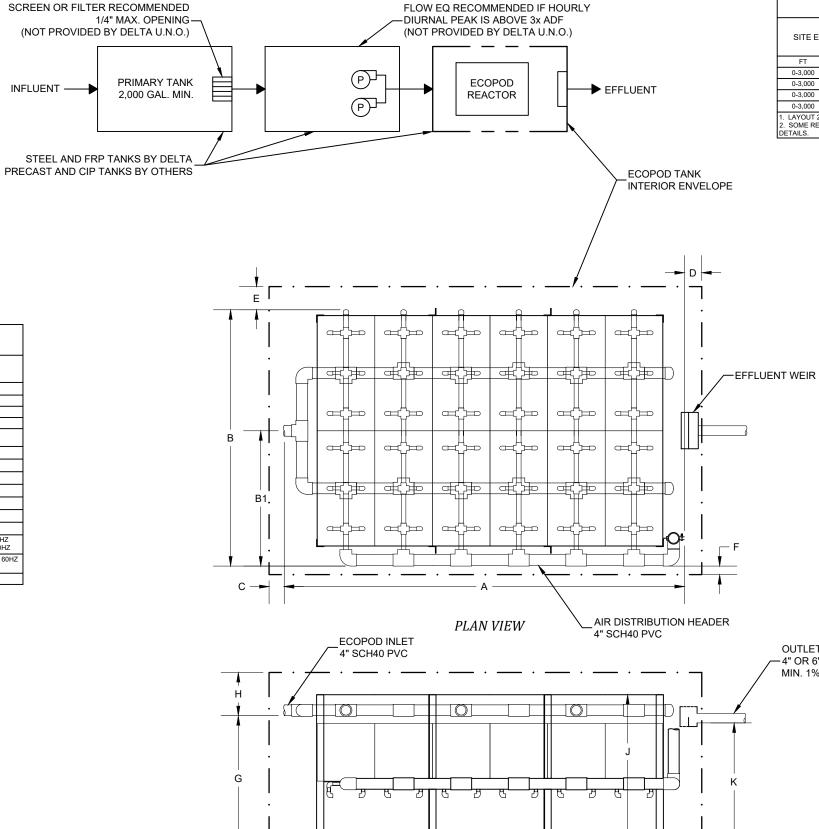
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TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	4,000 GPD			
PEAK DAILY FLOW	-	6,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	10 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °F			
RELATIVE 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	166 SCFM	193 SCFM
SITE AIR REQUIREMENT	187 ICFM	232 ICFM
BLOWER INLET AIR	187 ICFM	232 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	77 IN ² 2 EA 8" OR 1 EA 10"	95.5 IN ² 2 EA 8" OR 1 EA 12"
BLOWER SELECTION	FPZ SCL K06-MS	G-D SUTORBILT 3L
NOISE LEVEL	73.0 dB(A)	
AIR TEMPERATURE RISE	21 F (11.7 C)	22 F (12.2 C)
BLOWER INLET DIAMETER	2 NPT	2.5 NPT
BLOWER OUTLET DIAMETER	2 NPT	2.5 NPT
MOTOR SELECTION	3 HP	3 HP
OPERATING POWER	2.6 HP	2.8 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	218/109 A @ 115-208/230V 1-PH 60HZ 74.0/37.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	28.0-15.0/14.0 A @ 115-208/230V 1-PH 60H 8.0/4.0 A @ 230/460V 3-PH 60HZ

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION	QTY	MAKE	MODEL		
ECOPOD REACTOR	1	DELTA	E400S-N		
BLOWER	1	VARIES BY SITE ELEVATION	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



PROFILE VIEW

NO. DATE INITIALS DESCRIPTION		
	Delta Treatment Systems, LLC	D STANDARD DI
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELE	VATION	REACTOR MATERIAL	LAYOUT ID	OVE LEN		e OVEI WII	-	E AIR HE CL	-
FT	М	1		IN	CM	IN	CM	IN	CM
0-3,000	0-914	HDPE	1	315	801	61	155	34	87
0-3,000	0-914	SS	1	300	762	60	153	33	84
0-3,000	0-914	SS	2	167	425	108	275	57	145
0-3,000 0-914		SS	3	215	547	84	214	45	115
AYOUT 2 (SS) SHOWN IN PLAN VIEW. OME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR ALS									

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS						
DIMENSION IN CM						
C VESSEL FRONT SPACE	12	30				
D VESSEL REAR SPACE	18	46				
E AIR HEADER SIDE INSIDE	6	15				

NO HEADER SIDE INSIDE 15 6 SPACE 1: ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM

DIMENSIONS				
DIMENSION	IN	СМ		
G INLET INVERT	50	127		
H PLENUM SPACE ABOVE INLET INVERT	10	25		
J MEDIA REACTOR HEIGHT	59	150		
K OUTLET INVERT	47	119		
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED 24" DIA MINIMUM				

OUTLET PIPE -4" OR 6" MIN. 1% SLOPE

DELTA ECOPOD E400S-N	HORIZ. SCALE N/A VERT. SCALE	PROJECT NO. N/A DATE
D DESIGN FOR BOD AND NITRIFICATION	N/A	02/11/2021
	DRAWN BY	DESIGNED BY
	CGK	AOB
GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO.
	C1.0	01 of 01

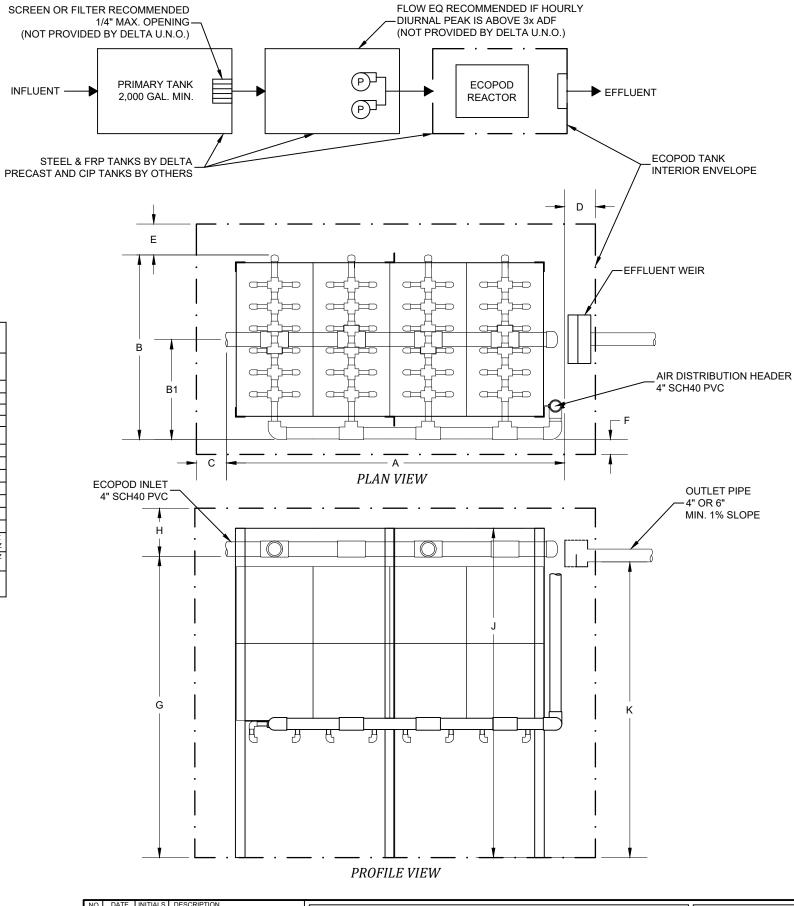
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- 3.1. 3.2. 3.3. 3.4. CARBON STEEL PER ASTM #36 W/COATING PER DELTA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS SHALL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
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TABLE 1 PROCESS PARAMETERS						
PARAMETER	MINIMUM	MAXIMUM				
AVERAGE DAILY FLOW	-	4,000 GPD				
PEAK DAILY FLOW	-	6,000 GPD				
PEAK HOURLY FLOW	-	-				
INFLUENT BOD ₅	-	10 LB/DAY				
AIR TEMPERATURE	-20 °F	115 °F				
WATER TEMPERATURE	68 °F	90 °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						
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)						
AIR TEMPERATURE RISE	41 F (22.8 C)	41 F (22.8 C)						
BLOWER INLET DIAMETER	1.5 NPT	1.5 NPT						
BLOWER OUTLET DIAMETER	1.5 NPT	1.5 NPT						
MOTOR SELECTION	2 HP	2 HP						
OPERATING POWER	1.5 HP	1.5 HP						
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60H 54.2/27.0 A @ 208-230/460V 3-PH 60H						
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60H 5.8/2.9 A @ 208-230/460V 3-PH 60H2						

TABLE 3 STANDARD EQUIPMENT LIST							
DESCRIPTION QTY MAKE MODEL							
ECOPOD REACTOR	1	DELTA	E400D				
BLOWER	1	FPZ	PER TABLE 2				
CONTROL PANEL	1	DELTA					
EFFLUENT WEIR	1	DELTA	W2592-2				



		DESCRIPTION	-51 L	I DAIE	NO.
I STANDAR	Delta Treatment Systems, LLC				
-	An Infilitator Water Technologies Company				
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	APPEIDABLEM TO A DI EDITIO MOSEOTIO AL ME DOLE BIOCKETION OF THE DOLEKANDION THE ENDINEER OF RECORD.				

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELEVATION		LAYOUT ID		A RALL GTH	e OVE WII	-	AIR HI	31 EADER DIM
FT	М	1	IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	106	270	59	150	32	82
0-3,000	0-914	2	69	176	107	272	56	143
0-3,000 0-914		3	93	237	83	211	44	112
0-3,000 0-914 2 69 176 107 272 56 143								

REPRESENTATIVE FOR DETAILS.

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ		
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				

FOR SOLIDS REMOVAL ALONG VESSEL SIDE

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

	HORIZ. SCALE	PROJECT NO.
DELTA ECOPOD E400D	N/A	N/A
	VERT. SCALE	DATE
DARD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
	DRAWN BY	DESIGNED BY
	CGK	AOB
GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO.
GENERAL ARRANGEMENT	C1.0	01 of 01

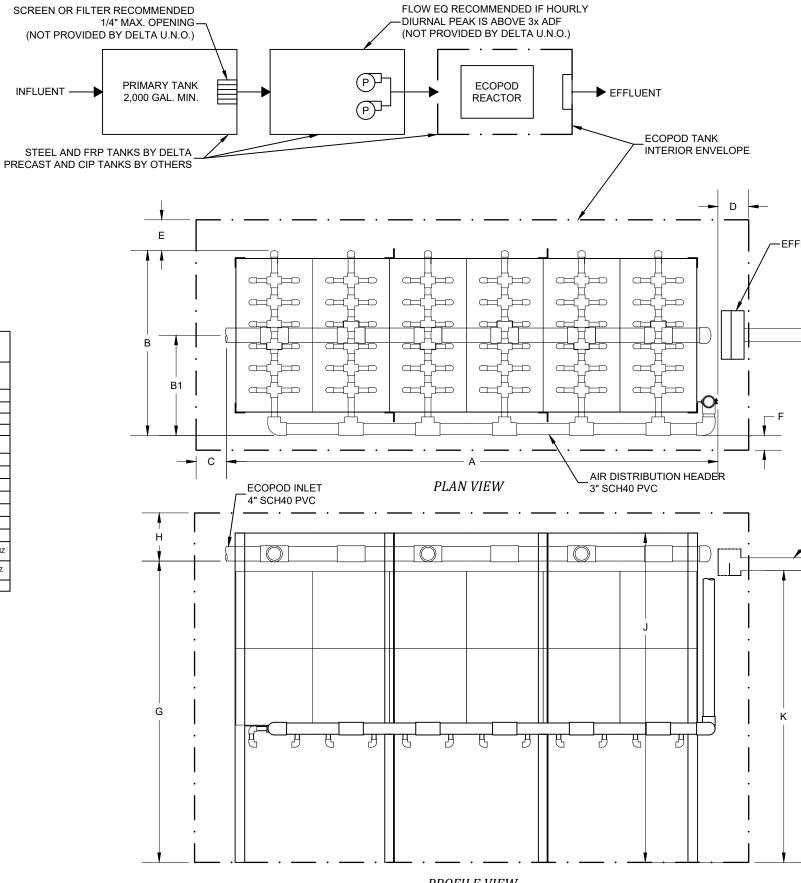
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- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WICOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FREP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 BLOWERS, WEIRS, CONTROL PANELS; AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED; TO BE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
 STATE ON LOOM ACTIONY ADDROVED DECIVES FOR A DADTICIL AD SYSTEM MAX DIFFERENCE. 4
- 5.
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TABLE 1 PROCESS PARAMETERS					
PARAMETER MINIMUM MAXIMUM					
AVERAGE DAILY FLOW	-	4,000 GPD			
PEAK DAILY FLOW	-	6,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	10 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °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	92 SCFM	107 SCFM					
SITE AIR REQUIREMENT	103 ICFM	128 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	33 F (18.3 C)	32 F (17.8 C)					
BLOWER INLET DIAMETER	2 NPT	2 NPT					
BLOWER OUTLET DIAMETER	2 NPT	2 NPT					
MOTOR SELECTION	3 HP	4 HP					
OPERATING POWER	2.3 HP	3.5 HP					
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60HZ					
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60HZ					
1. REVIEW BLOWER DISCHARGE	AIR TEMPERATURE WHEN SPECIFYING	AIR MAIN PIPING MATERIAL.					

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION	QTY	MAKE	MODEL		
ECOPOD REACTOR	1	DELTA	E400D-N		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



NC	D. DATE	INITIALS	DESCRIPTION	-				
							HORIZ. SCALE	PROJECT NO.
					Dalta Transformer Construct IIC	DELTA ECOPOD E400D-N	N/A	N/A
	1			delta	Delta Treatment Systems, LLC	STANDARD DESIGN FOR BOD AND NITRIFICATION	VERT. SCALE	DATE
-	-				-	STANDARD DESIGN FOR BOD AND NITRIFICATION []		02/11/2021
				An Infiltrator Water Technologies Company			DRAWN BY	DESIGNED BY
				CODV/DIGUT (0) 2020 DELTA TREATMENT OV/OTEMO ULO (D	DTS). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY		CGK	AOB
	_			OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODU	JCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN		DRAWING NO.	SHEET NO.
					MISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS	GENERAL ARRANGEMENT		
					(. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE HE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD		C1.0	01 of 01
				AFFEICABIEITI TO A SFECIFIC PROJECT IS AT TH	HE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.			-

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELEVATION LAYOUT OVERALL OVERALL AIR HEADER ID LENGTH WIDTH CL DIM						ADER		
FT	М	1	IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	154	392	59	150	32	82
0-3,000	0-914	2	93	237	107	272	56	143
0-3,000	0-914	3	117	298	83	211	44	112
 LAYOUT 1 SH SOME REAC REPRESENTAT 	TOR LAYOUTS	NOT AVAILA	BLE IN FIBE	ERGLASS T	ANKS. CO	NTACT AN	IWT/DELTA	

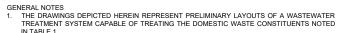
TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ		
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				

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

-EFFLUENT WEIR



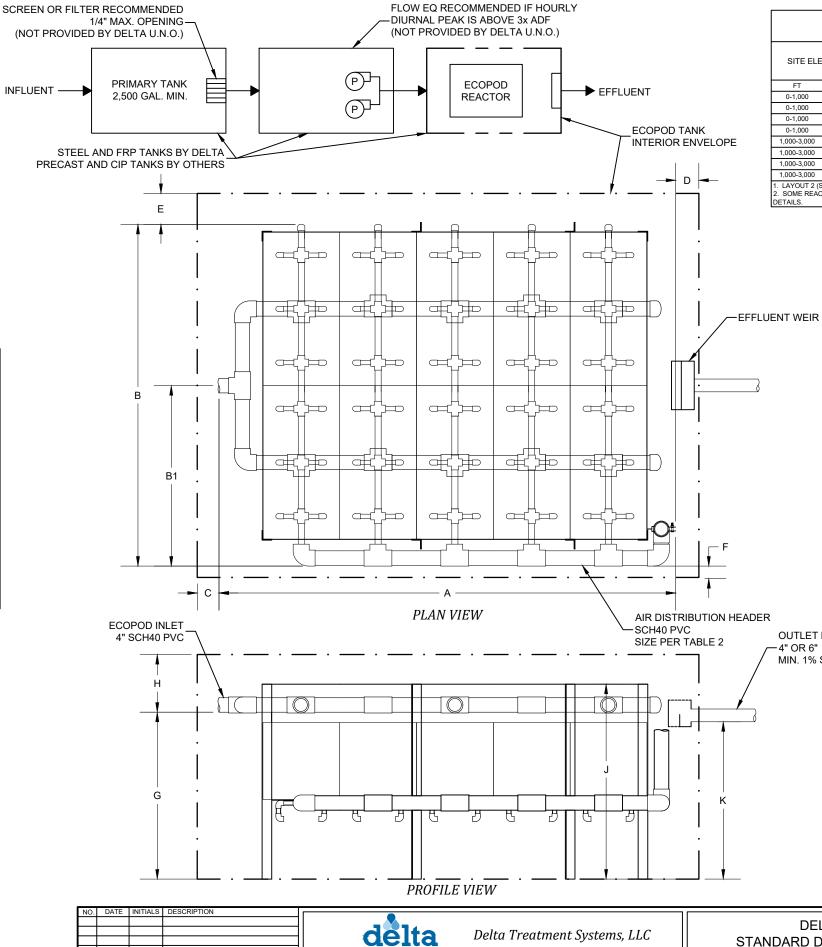
- IN TABLE 1.
 ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE) OR AISI 304/304. STAINLESS STEEL.
 TANK MATERIAL OPTIONS:
 1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS,
 2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
 3. PRECAST CONCRETE PER ENGINEER OF RECORD REGUIREMENTS, BY OTHERS,
 3.4. CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REGUIREMENTS, BY OTHERS,
 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.

- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS. STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

TABLE 1 PROCESS PARAMETERS						
PARAMETER MINIMUM MAXIMUM						
AVERAGE DAILY FLOW	-	5,000 GPD				
PEAK DAILY FLOW	-	7,500 GPD				
PEAK HOURLY FLOW	-					
INFLUENT BOD ₅	-	12.5 LB/DAY				
AIR TEMPERATURE	-20 °F	115 °F				
WATER TEMPERATURE	68 °F	90 °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	110 SCFM	128 SCFM					
SITE AIR REQUIREMENT	124 ICFM	154 ICFM					
BLOWER INLET AIR	141 ICFM	187 ICFM					
AIR HEADER SIZE	3 IN	4 IN					
MIN. TANK VENT X-SECT. AREA	58.1 IN ² 2 EA 8" OR 1 EA 8"	77 IN ² 2 EA 8" OR 1 EA 10"					
BLOWER SELECTION	FPZ SCL K05-TD	FPZ_SCL K06-MS					
NOISE LEVEL	73.0 dB(A)	73.0 dB(A)					
AIR TEMPERATURE RISE	24 F (13.3 C)	21 F (11.7 C)					
BLOWER INLET DIAMETER	2 NPT	2 NPT					
BLOWER OUTLET DIAMETER	2 NPT	2 NPT					
MOTOR SELECTION	3 HP	3 HP					
OPERATING POWER	1.8 HP	2.6 HP					
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ					
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ					

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION	QTY	MAKE	MODEL		
ECOPOD REACTOR	1	DELTA	E500S		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELEVATION REACTOR LAYOUT OVERALL LENGTH WIDTH CL DIM						EADER			
FT	М	1		IN	CM	IN	CM	IN	CM
0-1,000	0-305	HDPE	1	238	605	60	153	33	84
0-1,000	0-305	SS	1	226	575	59	150	32	82
0-1,000	0-305	SS	2	141	359	107	272	56	143
0-1,000	0-305	SS	3	189	481	83	211	44	112
000-3,000	305-914	HDPE	1	240	610	61	155	34	87
000-3,000	305-914	SS	1	228	580	60	153	33	84
000-3,000	305-914	SS	2	143	364	108	275	57	145
000-3,000	305-914	SS	3	191	486	84	214	45	115
	AYOUT 2 (SS) SHOWN IN PLAN VIEW. IOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
DIMENSION	IN	СМ			
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 H FOR SOLIDS REMOVAL AL					

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS				
DIMENSION	IN	СМ		
G INLET INVERT	50	127		
H PLENUM SPACE ABOVE INLET INVERT	10	25		
J MEDIA REACTOR HEIGHT	59	150		
K 47 119				
1. ONE (1 EA.) INLET AND ACCESS HATCH REQUIRE				

DELTA ECOPOD E500S	HORIZ. SCALE N/A	PROJECT NO. N/A
	VERT. SCALE N/A	DATE 02/11/2021
	DRAWN BY CGK	DESIGNED BY AOB
GENERAL ARRANGEMENT	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
- IN LADLE 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 DELTA STANDARDS, 3.

- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WICOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FREP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
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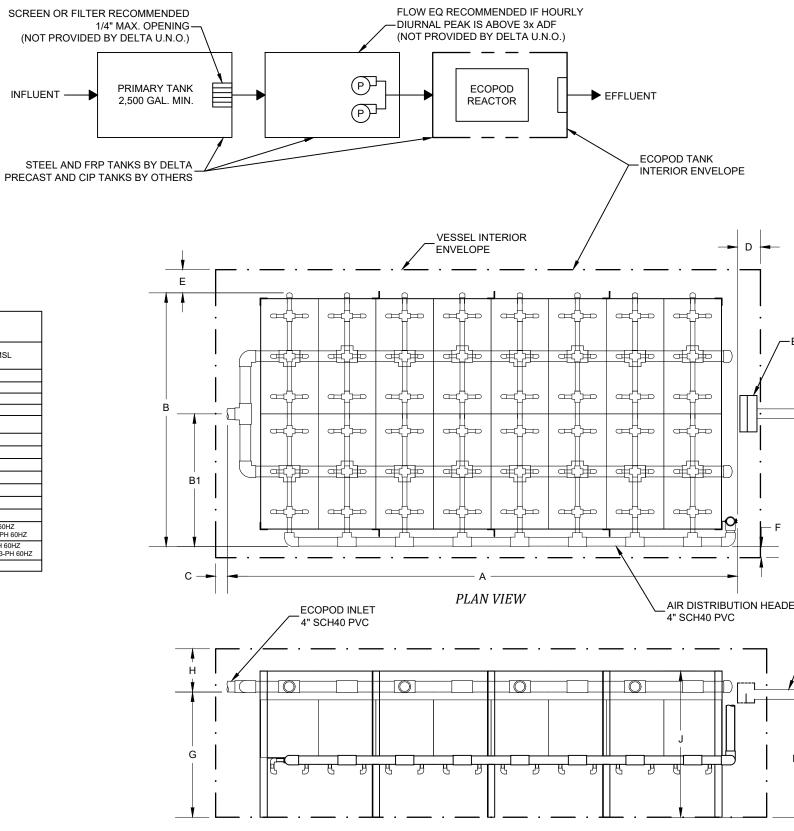
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TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	5,000 GPD		
PEAK DAILY FLOW	-	7,500 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	12.5 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °F		
RELATIVE 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	208 SCFM	242 SCFM
SITE AIR REQUIREMENT	234 ICFM	290 ICFM
BLOWER INLET AIR	234 ICFM	290 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	105 IN ² 2 EA 8" OR 1 EA 10"	140 IN ² 3 EA 8" OR 1 EA 10"
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	22 F (12.2 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT
MOTOR SELECTION	3 HP	5 HP
OPERATING POWER	2.8 HP	3.4 HP
STARTING CURRENT	218/109 A @ 115-208/230V 1-PH 60HZ 74.0/37.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	28.0-15.0/14.0 A @ 115-208/230V 1-PH 60HZ 8.0/4.0 A @ 230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION	QTY	MAKE	MODEL	
ECOPOD REACTOR	1	DELTA	E500S-N	
BLOWER	1	G-D SUTORBILT	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



PROFILE VIEW

_					
NO.	DATE	INITIALS	DESCRIPTION		
					DE
				Delta Delta Treatment Systems, LLC	
					STANDARD DE
				treatment systems An Inflitate Water Technologies Company	
				An initiator Water Lecthologies Company	
				COPYRIGHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY	
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				AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE	_
	1			APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS										
SITE ELE	VATION	LAYOUT ID	A OVERALL LENGTH		AYOUT OVERALL		B OVERALL WIDTH		e Air He Cl	EADER
FT	М		IN	CM	IN	CM	IN	CM		
0-3,000	0-914	1	372	945	60	153	33	84		
0-3,000	0-914	2	215	547	108	275	57	145		
0-3,000	0-914	3	263	669	84	214	45	115		
 LAYOUT 2 SI SOME REAC REPRESENTAT 	TOR LAYOUTS	NOT AVAILA	BLE IN FIBE	ERGLASS T	ANKS. CO	NTACT AN	IWT/DELTA			

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ	
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.

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS

DIMENSION	IN	СМ	
G INLET INVERT	50	127	
H PLENUM SPACE ABOVE INLET INVERT	10	25	
J MEDIA REACTOR HEIGHT	59	150	
K OUTLET INVERT	47	119	
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.			

-EFFLUENT WEIR

OUTLET PIPE -4" OR 6" MIN. 1% SLOPE	

D DESIGN FOR BOD AND NITRIFICATION	VERT. SCALE N/A	DATE 02/11/2021
	IN/A	02/11/2021
	DRAWN BY CGK	DESIGNED BY AOB
GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO. 01 of 01

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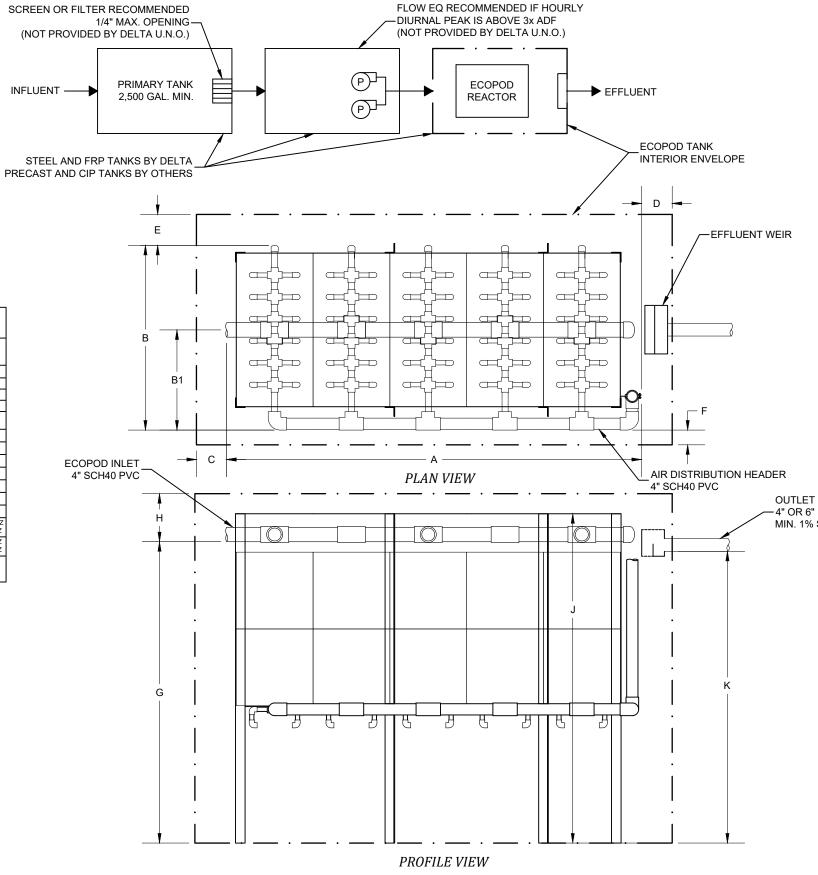
- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WICOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FREP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
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TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	5,000 GPD		
PEAK DAILY FLOW	-	7,500 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	12.5 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °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	61 SCFM	71 SCFM				
SITE AIR REQUIREMENT	68 ICFM	85 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				
NOISE LEVEL	65.0 dB(A)	70.8 dB(A)				
AIR TEMPERATURE RISE	41 F (22.8 C)	33 F (18.3 C)				
BLOWER INLET DIAMETER	1.5 NPT	2 NPT				
BLOWER OUTLET DIAMETER	1.5 NPT	2 NPT				
MOTOR SELECTION	2 HP	3 HP				
OPERATING POWER	1.5 HP	2.3 HP				
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60F 88.9/44.4 A @ 208-230/460V 3-PH 60H				
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60H 8.31/4.15 A @ 208-230/460V 3-PH 60H				

CALCULATIONS FOR DETAILS.

TABLE 3 STANDARD EQUIPMENT LIST				
DE	SCRIPTION	QTY	MAKE	MODEL
ECO	POD REACTOR	1	DELTA	E500D
	BLOWER	1	FPZ	PER TABLE 2
CO	NTROL PANEL	1	DELTA	
EFF	LUENT WEIR	1	DELTA	W2592-2



N). DATE	INITIALS	DESCRIPTION				
						HORIZ. SCALE	PROJECT NO.
-	-	-			DELTA ECOPOD E500D	N/A	N/A
				delta Delta Treatment Systems, LLC		VERT. SCALE	DATE
					STANDARD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
				treatment systems			
				An Infiltrator Water Technologies Company		DRAWN BY	DESIGNED BY
-	-			COPYRIGHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS), INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY		CGK	AOB
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				AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE		C1.0	01 of 01
	-	1		APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		01.0	
_							

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID	A OVERALL LENGTH		OVERALL OVERALL		AIR H	31 EADER DIM
FT	М		IN	CM	IN	CM	IN	CM
0-1,000	0-305	1	130	331	59	150	32	82
0-1,000	0-305	2	93	237	107	272	56	143
0-1,000	0-305	3	130	331	59	150	32	82
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA								

REPRESENTATIVE FOR DETAILS.

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ			
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.					

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

OUTLET PIPE MIN. 1% SLOPE

4

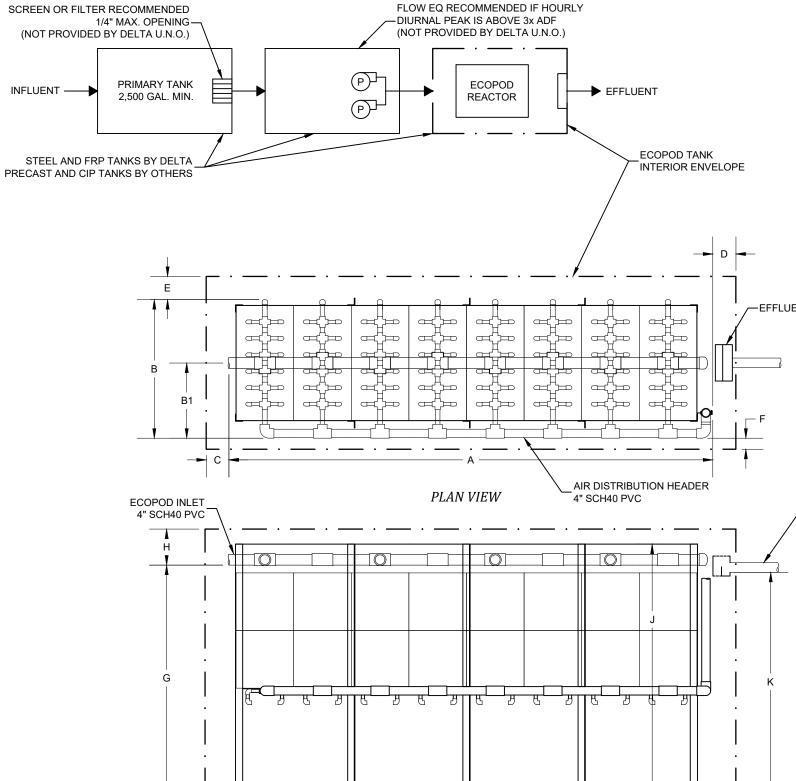
- GENERAL NOTES 1. THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1
- IN LADLE 1. ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL. TANK MATERIAL OPTIONS: 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS, 3.

- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WCOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 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.
- 5.
- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS. STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183. 6

TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	5,000 GPD			
PEAK DAILY FLOW	-	7,500 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	12.5 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °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	115 SCFM	133 SCFM				
SITE AIR REQUIREMENT	129 ICFM	160 ICFM				
BLOWER INLET AIR	169 ICFM	169 ICFM				
AIR HEADER SIZE	3 IN	3 IN				
MIN. TANK VENT X-SECT. AREA	69.6 IN ² 2 EA 8" OR 1 EA 10"	69.6 IN ² 2 EA 8" OR 1 EA 10"				
BLOWER SELECTION	FPZ K06-MS	FPZ K06-MS				
NOISE LEVEL	73.3 dB(A)	73.3 dB(A)				
AIR TEMPERATURE RISE	32 F (17.8 C)	32 F (17.8 C)				
BLOWER INLET DIAMETER	2 NPT	2 NPT				
BLOWER OUTLET DIAMETER	2 NPT	2 NPT				
MOTOR SELECTION	4 HP	4 HP				
OPERATING POWER	3.5 HP	3.5 HP				
STARTING CURRENT	122/60.8 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60H2				
FULL LOAD CURRENT	11.1/5.53 @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60HZ				
1. REVIEW BLOWER DISCHARGE	AIR TEMPERATURE WHEN SPECIFYIN	G AIR MAIN PIPING MATERIAL.				

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION	QTY	MAKE	MODEL		
ECOPOD REACTOR	1	DELTA	E500D-N		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



PROFILE VIEW

N	DATE	INITIALS	DESCRIPTION			-	
<u> </u>						HORIZ. SCALE	PROJECT NO.
	-				DELTA ECOPOD E500-N	N/A	N/A
	+			Delta Delta Treatment Systems, LLC		VERT. SCALE	DATE
_	-				STANDARD DESIGN FOR BOD AND NITRIFICATION	N/A	02/11/2021
				Treatment systems An Infilter Water Technologies Company		DRAWN BY	DESIGNED BY
						CGK	AOB
				COPYRIGHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY			
				OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN WHOLE OR IN PART. WITHOUT THE PRIOR WRITTEN PERMISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS	GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO.
	-			AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE	GENERAL ARRANGEMENT	C1.0	01 of 01
_	-			APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		01.0	

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELE	VATION	LAYOUT ID				B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	М	1	IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	202	514	59	150	32	82	
0-3,000	0-914	2	117	298	107	272	56	143	
0-3,000	0-914	3	141	359	83	211	44	112	
2. SOME REAC	LAYOUT 1 SHOWN IN PLAN VIEW. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ			
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					

R SOLIDS REMOVAL ALONG VESSEL SI

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

-EFFLUENT WEIR

- 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
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 FIBERGLASS REINFORCED PLASTIC (FREP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 BLOWERS, WEIRS, CONTROL PANELS; AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED; TO BE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
 STATE ON LOOM ACTIONY ADDROVED DECIVES FOR A DADTICIL AD SYSTEM MAX DIFFERENCE. 4

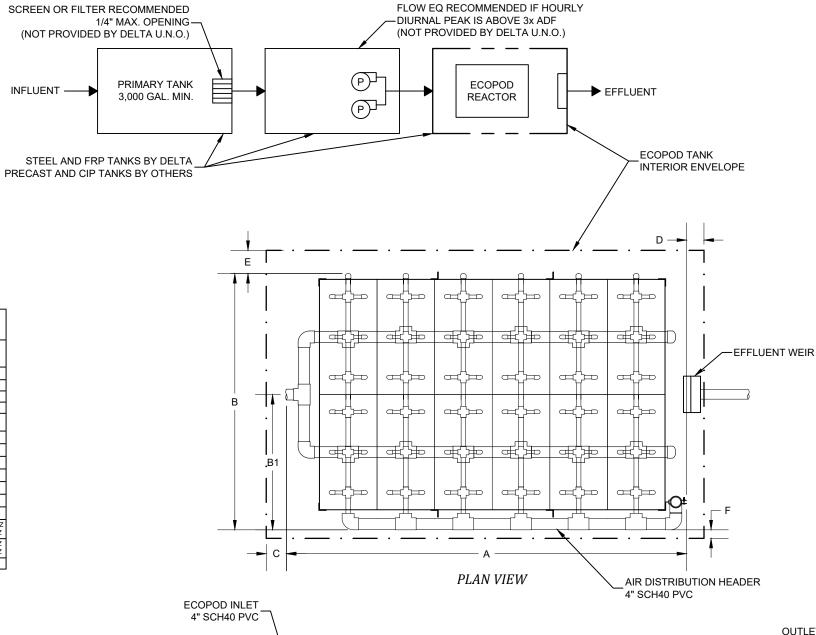
INFLUENT -

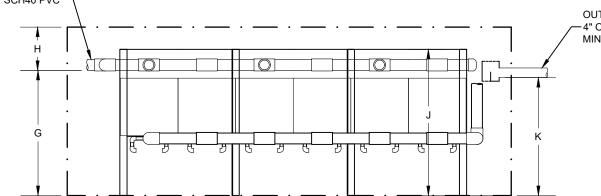
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TABLE 1 PROCESS PARAMETERS						
PARAMETER	MINIMUM	MAXIMUM				
AVERAGE DAILY FLOW	-	6,000 GPD				
PEAK DAILY FLOW	-	9,000 GPD				
PEAK HOURLY FLOW	-	-				
INFLUENT BOD ₅	-	15 LB/DAY				
AIR TEMPERATURE	-20 °F	115 °F				
WATER TEMPERATURE	68 °F	90 °F				
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	132 SCFM	154 SCFM					
SITE AIR REQUIREMENT	149 ICFM	184 ICFM					
BLOWER INLET AIR	187 ICFM	187 ICFM					
AIR HEADER SIZE	4 IN	4 IN					
MIN. TANK VENT X-SECT. AREA	77 IN ² 2 EA 8" OR 1 EA 10"	77 IN ² 2 EA 8" OR 1 EA 10"					
BLOWER SELECTION	FPZ SCL K06-MS	FPZ SCL K06-MS					
NOISE LEVEL	73.0 dB(A)	73.0 dB(A)					
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)					
BLOWER INLET DIAMETER	2 NPT	2 NPT					
BLOWER OUTLET DIAMETER	2 NPT	2 NPT					
MOTOR SELECTION	3 HP	3 HP					
OPERATING POWER	2.6 HP	2.6 HP					
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60H 88.9/44.4 A @ 208-230/460V 3-PH 60Hz					
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ					

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR	DELTA	E600S			
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		





PROFILE VIEW

N), DATE	INITIALS	DESCRIPTION				
						HORIZ. SCALE	PROJECT NO.
\vdash	+				DELTA ECOPOD E600S	N/A	N/A
				Delta Treatment Systems, LLC		VERT. SCALE	DATE
					STANDARD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
	-			An Infiltrative Sciences Company		DRAWN BY	DESIGNED BY
						CGK	AOB
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				WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS	GENERAL ARRANGEMENT	04.0	
				AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		C1.0	01 of 01

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID	OVE	A RALL GTH	OVE	B RALL DTH	B AIR HE CL I	ADER
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	300	762	60	153	33	84
0-3,000	0-914	2	167	425	108	275	57	145
0-1,000	0-305	3	215	547	84	214	45	115
1. LAYOUT 2 SHOWN IN PLAN VIEW. 2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ	
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 SIDE

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS

DIMENSION	IN	СМ	
G INLET INVERT	50	127	
H PLENUM SPACE ABOVE INLET INVERT	10	25	
J MEDIA REACTOR HEIGHT	59	150	
K OUTLET INVERT	47	119	
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.			

- 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
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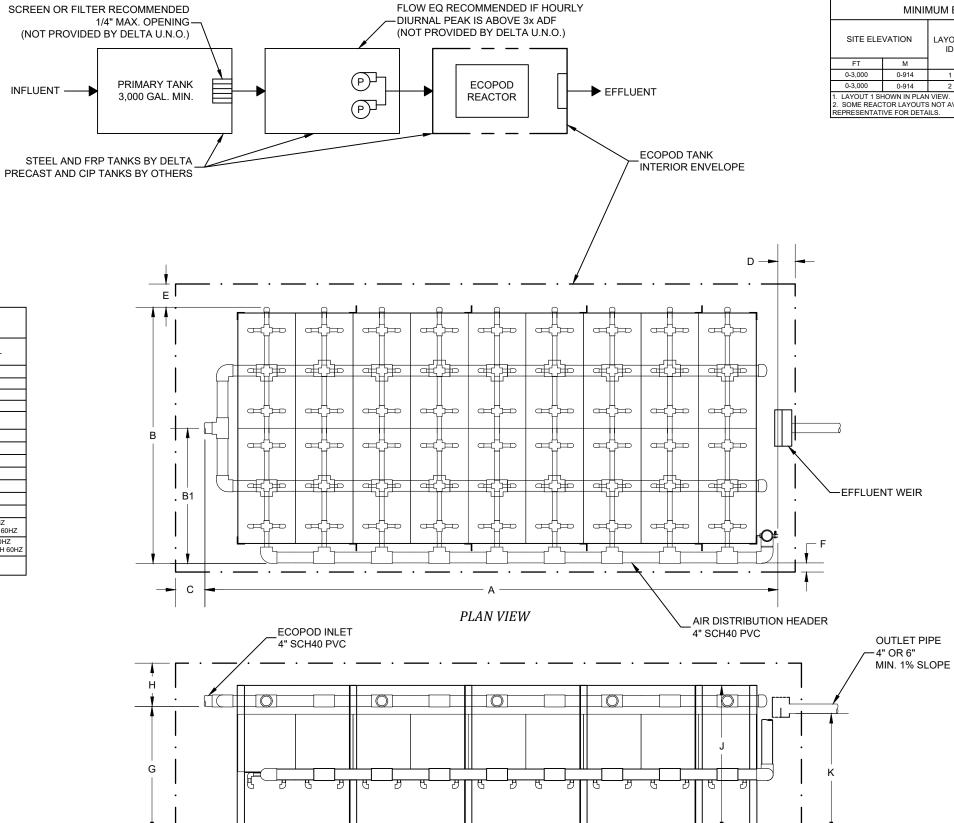
- 3.1. 3.2. 3.3. 3.4.
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 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
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 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
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 STATE OF LOCAL ACTIONS AND READ ADDRESS ADDR
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TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	6,000 GPD			
PEAK DAILY FLOW	-	9,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	15 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °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	249 SCFM	290 SCFM					
SITE AIR REQUIREMENT	281 ICFM	348 ICFM					
BLOWER INLET AIR	281 ICFM	348 ICFM					
AIR HEADER SIZE	4 IN	4 IN					
MIN. TANK VENT X-SECT. AREA	116 IN ² 3 EA 8" OR 1 EA 10"	143 IN ² 3 EA 8" OR 1 EA 10"					
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 4L					
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)					
NOISE LEVEL	dB(A)	dB(A)					
BLOWER INLET DIAMETER	2.5 NPT	3 NPT					
BLOWER OUTLET DIAMETER	2.5 NPT	3 NPT					
MOTOR SELECTION	5 HP	5 HP					
OPERATING POWER	3.4 HP	4.2 HP					
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ					
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60H					

. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR	1	DELTA	E600S-N		
BLOWER	1	G-D SUTORBILT	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



PROFILE VIEW

Delta Treatment Systems 11 C	 NO. DA	ATE	INITIALS	DESCRIPTION		
OF DTS. NO PÅRT OF THIS DRAWING SHALL BE REPRODUCED. DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANZION, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF DTS. THIS INFORMATION AND SASED ON SPECIFIC INPUT PARAMETERS AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE					treatment systems	STANDAR
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELEVATION LAYOUT OVERALL OVERALL AIR HEADER ID LENGTH WIDTH CL DIM					EADER			
FT	М	1 1	IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	239	608	108	275	57	145
0-3.000	0-914	2	311	790	84	214	45	115

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
DIMENSION IN CM					
C VESSEL FRONT SPACE	12	30			
D VESSEL REAR SPACE	18	46			
E AIR HEADER SIDE INSIDE 6 15 SPACE 6 15					
F NO HEADER SIDE INSIDE 6 15 SPACE 6 15					
1: ADDITIONAL ACCESS H	ATCHES RECC	MMENDED			

FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS

DIMENSION	IN	СМ	
G INLET INVERT	50	127	
H PLENUM SPACE ABOVE INLET INVERT	10	25	
J MEDIA REACTOR HEIGHT	59	150	
K OUTLET INVERT	47	119	
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.			

HORIZ, SCALE PROJECT NO. DELTA ECOPOD E600S-N N/A N/A VERT. SCALE DATE RD DESIGN FOR BOD AND NITRIFICATION N/A 02/11/2021 DRAWN BY DESIGNED BY CGK AOB RAWING SHEET NO GENERAL ARRANGEMENT C1.0 01 of 01

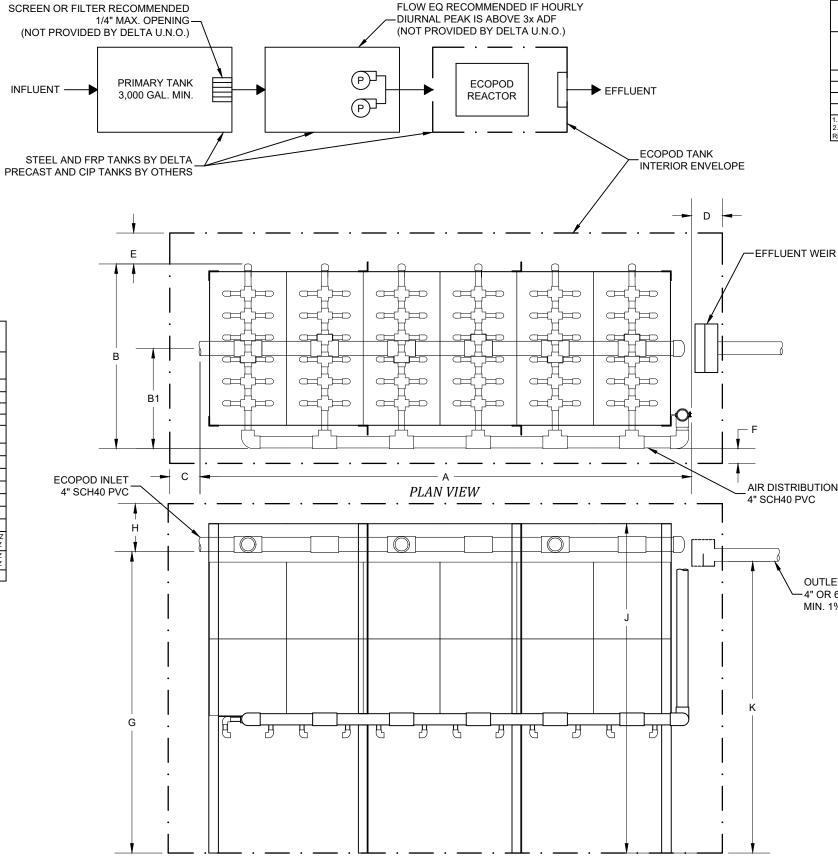
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- CARBON STEEL PER ASIM #36 WICOATING PER DELLA STANDARDS;
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TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	6,000 GPD		
PEAK DAILY FLOW	-	9,000 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	15 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °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	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	47.8 IN ² 2 EA 6" OR 1 EA 8"	47.8 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	33 F (18.3 C)	33 F (18.3 C)			
BLOWER INLET DIAMETER	2 NPT	2 NPT			
BLOWER OUTLET DIAMETER	2 NPT	2 NPT			
MOTOR SELECTION	3 HP	3 HP			
OPERATING POWER	2.3 HP	2.3 HP			
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60H 88.9/44.4 A @ 208-230/460V 3-PH 60H			
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60H 8.31/4.15 A @ 208-230/460V 3-PH 60H			

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR	1	DELTA	E600D		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



NO.	DATE	INITIALS	DESCRIPTION	-	
				Delta Treatment Systems, LLC	STANDAF
				An Infiltrator Water Technologies Company	
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				APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		E AIR HE CL	
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	154	392	59	150	32	82
0-3,000	0-914	2	93	237	107	272	56	143
0-1,000	0-305	3	117	298	83	211	44	112
2. SOME REAC	LAYOUT 1 SHOWN IN PLAN VIEW. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.							

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ	
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.			

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

AIR DISTRIBUTION HEADER

OUTLET PIPE -4" OR 6" MIN. 1% SLOPE

DELTA ECOPOD E600D NDARD DESIGN FOR BOD REDUCTION	HORIZ. SCALE N/A VERT. SCALE N/A DRAWN BY	PROJECT NO. N/A DATE 02/11/2021 DESIGNED BY
GENERAL ARRANGEMENT	CGK DRAWING NO. C1.0	аов SHEET NO. 01 of 01

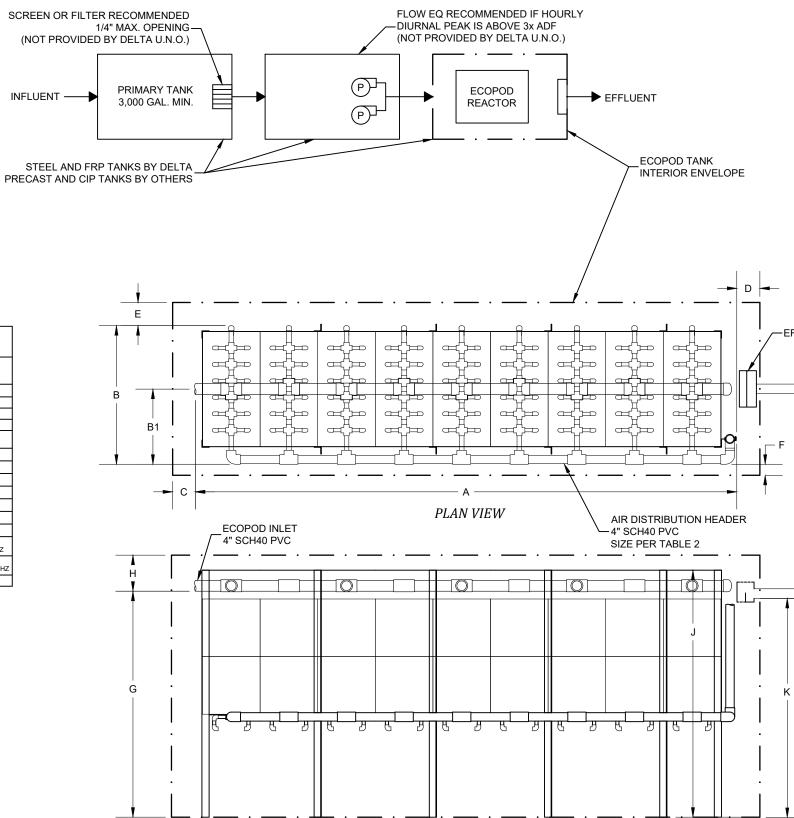
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- 3.1. 3.2. 3.3. 3.4.
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 FIBERGLASS REINFORCED PLASTIC (FREP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 BLOWERS, WEIRS, CONTROL PANELS; AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED; TO BE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
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TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	6,000 GPD			
PEAK DAILY FLOW	-	9,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	15 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °F			
RELATIVE HUMIDITY	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	138 SCFM	160 SCFM	
SITE AIR REQUIREMENT	155 ICFM	192 ICFM	
BLOWER INLET AIR	169 ICFM	192 ICFM	
AIR HEADER SIZE	3 IN	4 IN	
MIN. TANK VENT X-SECT. AREA	69.6 IN ² 2 EA 8" OR 1 EA 10"	79 IN ² 2 EA 8" OR 1 EA 10" G-D SUTORBILT 3L	
BLOWER SELECTION	FPZ SCL K06-MS		
NOISE LEVEL	73.3 dB(A)	dB(A)	
AIR TEMPERATURE RISE	32 F (17.8 C)	30 F (16.7 C)	
BLOWER INLET DIAMETER	2 NPT	2.5 NPT	
BLOWER OUTLET DIAMETER	2 NPT	2.5 NPT	
MOTOR SELECTION	4 HP	5 HP	
OPERATING POWER	3.5 HP	3.3 HP	
STARTING CURRENT	122/60.8 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	
FULL LOAD CURRENT	11.1/5.53 @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60H	

TABLE 3 STANDARD EQUIPMENT LIST						
DESCRIPTION	QTY	MAKE	MODEL			
ECOPOD REACTOR	1	DELTA	E600D-N			
BLOWER	1	VARIES BY SITE ELEVATION	PER TABLE 2			
CONTROL PANEL	1	DELTA				
EFFLUENT WEIR	1	DELTA	W2592-2			



	DATE	ITIALS DESCRIPTION					
NU.		THALS DESCRIPTION			DELTA ECOPOD E600D-N	HORIZ. SCALE N/A	PROJECT NO. N/A
			delta	Delta Treatment Systems, LLC	STANDARD DESIGN FOR BOD AND NITRIFICATION	VERT. SCALE N/A	DATE 02/11/2021
			An Infiltrator Water Technologies Company			DRAWN BY	DESIGNED BY
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				UCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN		DRAWING NO.	SHEET NO.
			AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY	MISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS V, USE AND INTERRETATION OF THIS INFORMATION AND DETERMINING THE HE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		C1.0	01 of 01

	TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID	A RALL IGTH	OVE	3 RALL DTH	AIR HE	31 EADER DIM		
FT	М		IN	CM	IN	CM	IN	CM	
0-1,000	0-305	1	226	575	59	150	32	82	
0-1,000	0-305	2	141	359	107	272	56	143	
0-1,000	0-305	3	165	420	83	211	44	112	
1,000-3,000	305-914	1	228	580	60	153	33	84	
1,000-3,000	305-914	2	143	364	108	275	57	145	
1,000-3,000	305-914	3	167	425	84	214	45	115	
 LAYOUT 1 SH SOME REAC REPRESENTAT 	TOR LAYOUTS	S NOT AVAILA	BLE IN FIBI	ERGLASS T	ANKS. CO	NTACT AN	IWT/DELTA		

TABLE 5
RECOMMENDED ECOPOD TANK
INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ
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 H	ATCHES RECC	MMENDED

FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

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						
1. ONE (1 EA.) INLET AND ACCESS HATCH REQUIRE						

-EFFLUENT WEIR

-4" OR 6"



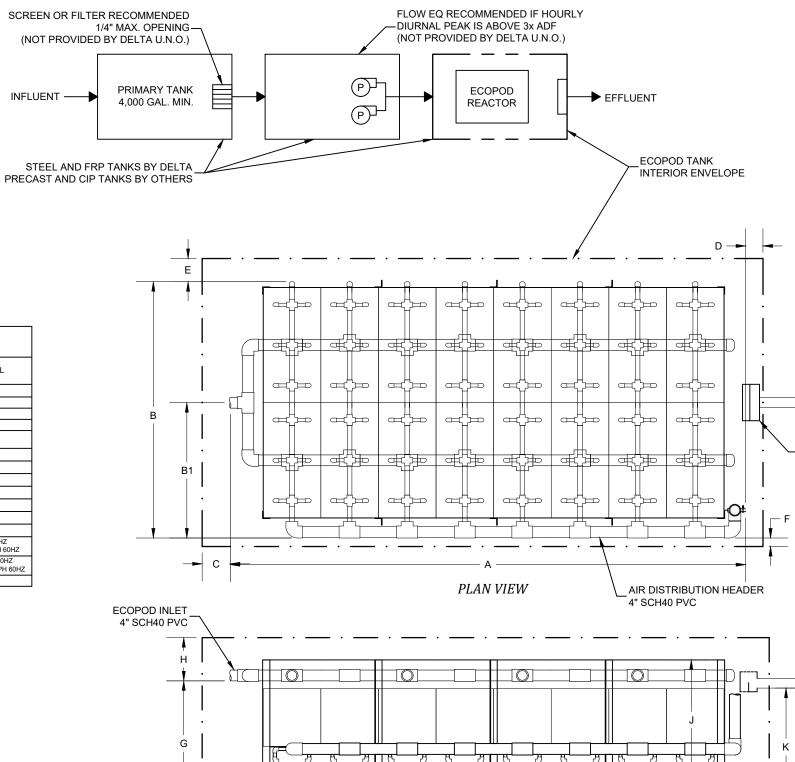
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TABLE 1 PROCESS PARAMETERS						
PARAMETER	MINIMUM	MAXIMUM				
AVERAGE DAILY FLOW	-	8,000 GPD				
PEAK DAILY FLOW	-	12,000 GPD				
PEAK HOURLY FLOW	-	-				
INFLUENT BOD ₅	-	20 LB/DAY				
AIR TEMPERATURE	-20 °F	115 °F				
WATER TEMPERATURE	68 °F	90 °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	176 SCFM	205 SCFM		
SITE AIR REQUIREMENT	198 ICFM	246 ICFM		
BLOWER INLET AIR	198 ICFM	246 ICFM		
AIR HEADER SIZE	4 IN	4 IN		
MIN. TANK VENT X-SECT. AREA	81.5 IN ² 2 EA 8" OR 1 EA 10"	101 IN ² 2 EA 10" OR 1 EA 12"		
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L		
NOISE LEVEL	dB(A)	dB(A)		
AIR TEMPERATURE RISE	22 F (12.2 C)	20 F (11.1 C)		
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT		
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT		
MOTOR SELECTION	3 HP	5 HP		
OPERATING POWER	2.4 HP	2.7 HP		
STARTING CURRENT	218/109 A @ 115-208/230V 1-PH 60HZ 74.0/37.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ		
FULL LOAD CURRENT	28.0-15.0/14.0 A @ 115-208/230V 1-PH 60HZ 8.0/4.0 A @ 230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ		

TABLE 3 STANDARD EQUIPMENT LIST						
DESCRIPTION QTY MAKE MODEL						
ECOPOD REACTPR	1	DELTA	E800S			
BLOWER 1 G-D SUTORBILT PER TABL						
CONTROL PANEL	1	DELTA				
EFFLUENT WEIR	1	DELTA	W2592-2			



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PROFILE VIEW

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NO.	DATE	INITIALS	DESCRIPTION			
					HORIZ. SCALE	PROJECT NO.
					N/A	N/A
				Celta Delta Treatment Systems, LLC STANDARD DESIGN FOR BOD REDUCTION	VERT. SCALE	DATE
				STANDARD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
				An Infland Systems	DRAWN BY	DESIGNED BY
					CGK	AOB
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID		A RALL GTH	OVE	3 RALL DTH	AIR HE	31 EADER DIM
FT	М	1	IN	СМ	IN	CM	IN	CM
0-3,000	0-914	1	215	547	108	275	57	145
0-3,000 0-914		2	287	729	84	214	45	115
1. LAYOUT 1 SI 2. SOME REAC REPRESENTAT	HOWN IN PLAN	N VIEW. S NOT AVAILA						115

TAE	BLE 5			
RECOMMENDED ECOPOD TANK				
INTERIOR ENVEL	OPE DIME	ENSIONS		
DIMENSION	IN	СМ		

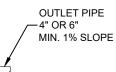
C VESSEL FRONT SPACE	12	30
D VESSEL REAR SPACE	18	46
E AIR HEADER SIDE INSIDE SPACE	6	15
F NO HEADER SIDE INSIDE SPACE	6	15
1: ADDITIONAL ACCESS H	ATCHES RECC	MMENDED

FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS

DIMENSION	IN	СМ
G INLET INVERT	50	127
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	59	150
K OUTLET INVERT	47	119
1. ONE (1 EA.) INLET AND ACCESS HATCH REQUIRE		

-EFFLUENT WEIR



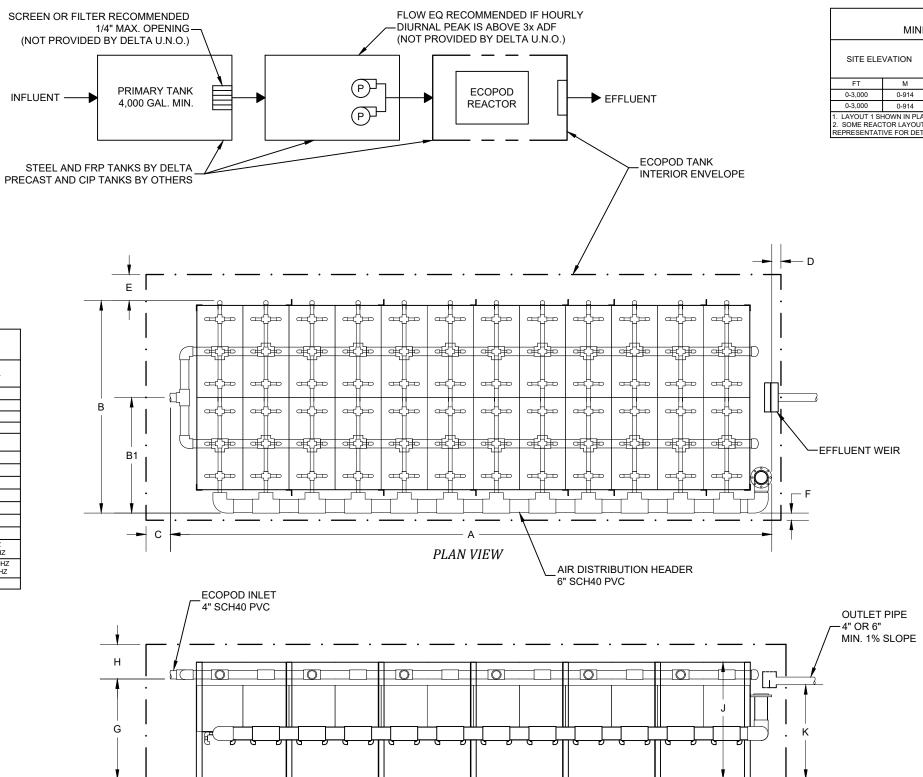
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TABLE 1 PROCESS PARAMETERS			
PARAMETER	MINIMUM	MAXIMUM	
AVERAGE DAILY FLOW	-	8,000 GPD	
PEAK DAILY FLOW	-	12,000 GPD	
PEAK HOURLY FLOW	-	-	
INFLUENT BOD ₅	-	20 LB/DAY	
AIR TEMPERATURE	-20 °F	115 °F	
WATER TEMPERATURE	68 °F	90 °F	
RELATIVE HUMIDITY	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	332 SCFM	387 SCFM
SITE AIR REQUIREMENT	374 ICFM	465 ICFM
BLOWER INLET AIR	374 ICFM	465 ICFM
AIR HEADER SIZE	6 IN	6 IN
MIN. TANK VENT X-SECT. AREA	154 IN ² 2 EA 10"	191 IN ² 3 EA 10" OR 2 EA 12"
BLOWER SELECTION	G-D SUTORBILT 4L	G-D SUTORBILT 4L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	22 F (12.2 C)	20 F (11.1 C)
BLOWER INLET DIAMETER	3 NPT	3 NPT
BLOWER OUTLET DIAMETER	3 NPT	3 NPT
MOTOR SELECTION	5 HP	7.5 HP
OPERATING POWER	4 HP	4.8 HP
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ

TABLE 3 STANDARD EQUIPMENT LIST			
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E800S-N
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



, ,			DESCRIPTION	INITIALS	DATE	NO.
ll DE						
	Delta Treatment Systems, LLC	delta				
STANDARD DES	Della Treatment Systems, LLC	uella				
		treatment systems				
]		An initiator Water Technologies Company				
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELEVATION		LAYOUT ID	A B OVERALL OVERA LENGTH WIDT		RALL		B1 HE/ CL D	ADER	
FT	М	1	IN	CM	IN	CM	IN		CM
0-3,000	0-914	1	314	798	113	288	62		158
0-3,000	0-914	2	410	1042	89	227	50		127
REPRESENTA			BLE IN FIB	ERGLASS T		NTACT AN		TA	
<u>REPRESENTA</u>			BLE IN FIB	RECO		TABLE DED E0	5 COPOI	D T.	
REPRESENTA [*]			BLE IN FIB	RECO	OMMEN	TABLE DED E0	5 COPOI	D T.	
REPRESENTA			BLE IN FIB	RECC INTERI DIME	DMMEN	TABLE DED EG VELOPI	5 COPOI E DIME	D T.	SION
REPRESENTA			BLE IN FIB	RECO INTERI DIMI			5 COPOI E DIME IN	D T.	SION: CM

SPACE : ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

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NO HEADER SIDE INSIDE

DIMENSION	IN	СМ
G INLET INVERT	50	127
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	59	150
K OUTLET INVERT	47	119
1. ONE (1 EA.) INLET AND ACCESS HATCH REQUIRE		

DELTA ECOPOD E800S-N D DESIGN FOR BOD AND NITRIFICATION	HORIZ. SCALE N/A VERT. SCALE N/A DRAWN BY	PROJECT NO. N/A DATE 02/11/2021 DESIGNED BY
GENERAL ARRANGEMENT	CGK DRAWING NO. C1.0	аов SHEET NO. 01 of 01

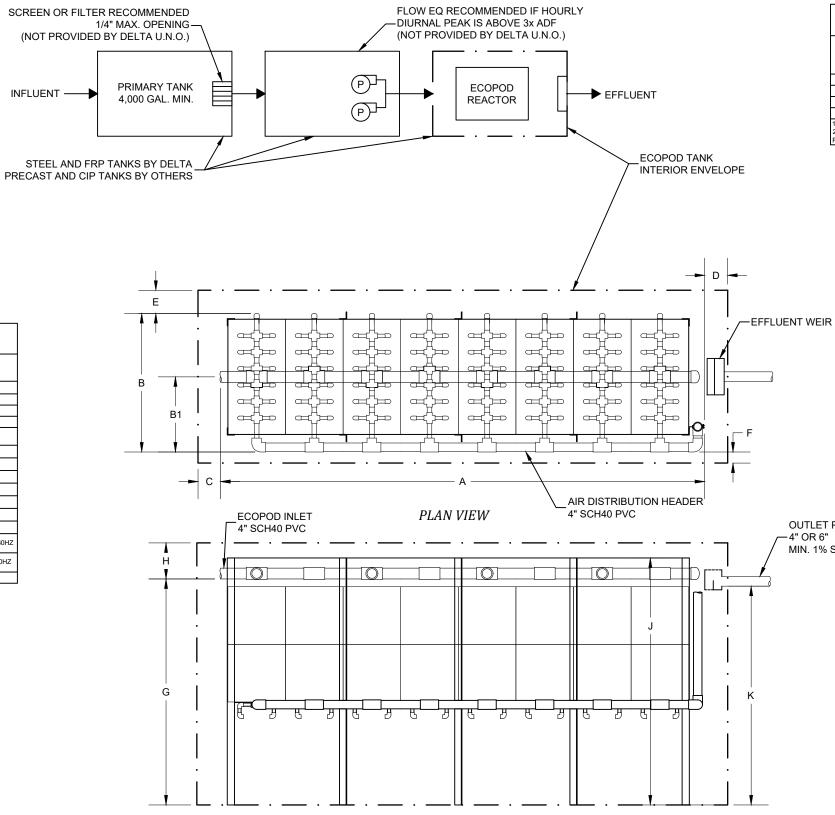
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TABLE 1 PROCESS PARAMETERS			
PARAMETER	MINIMUM	MAXIMUM	
AVERAGE DAILY FLOW	-	8,000 GPD	
PEAK DAILY FLOW	-	12,000 GPD	
PEAK HOURLY FLOW	-	-	
INFLUENT BOD ₅	-	20 LB/DAY	
AIR TEMPERATURE	-20 °F	115 °F	
WATER TEMPERATURE	68 °F	90 °F	
RELATIVE HUMIDITY	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	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	33 F (18.3 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	3 HP	4 HP
OPERATING POWER	2.3 HP	3.5 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60H
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60H

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR	1	DELTA	E800D		
BLOWER	1	FPZ	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		



NO.	DATE	INITIALS	DESCRIPTION		[
				Delta Delta Treatment Systems, LLC	
				Della Della Treatment Systems, ELC	STAN
				treatment systems	
				zo minuaita tvale i tecinologies company	
				COPYRIGHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN	
				OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED ST ANY PERSON OR ORGANIZATION, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS	
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				APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OK THE ENGINEER OF RECORD.	L

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID				RALL	B AIR HE CL I	ADER
FT	М	1	IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	202	514	59	150	32	82
0-3,000	0-914	2	117	298	107	272	56	143
0-3,000	0-914	3	165	420	83	211	44	112
2. SOME REAC	LAYOUT 1 SHOWN IN PLAN VIEW. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.							

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ		
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				

IDS REMOVAL ALONG VESSEL

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

DELTA ECOPOD E800D	HORIZ. SCALE N/A	PROJECT NO. N/A
NDARD DESIGN FOR BOD REDUCTION	VERT. SCALE N/A	DATE 02/11/2021
	DRAWN BY CGK	DESIGNED BY AOB
GENERAL ARRANGEMENT	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
- 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 DELTA STANDARDS,

- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASTM A36 WICOATING PER DELTA STANDARDS,
 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,
 BLOWERS, WEIRS, CONTROL PARELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
 STATE OF LOOM ACTIONS ADDROUGED DESIGNED FOR A DADTION AD SYSTEM MAX DIFFER

- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS. STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183. 6

TABLE 1 PROCESS PARAMETERS						
PARAMETER MINIMUM MAXIMUM						
AVERAGE DAILY FLOW	-	8,000 GPD				
PEAK DAILY FLOW	-	12,000 GPD				
PEAK HOURLY FLOW	-	-				
INFLUENT BOD ₅	-	20 LB/DAY				
AIR TEMPERATURE	-20 °F	115 °F				
WATER TEMPERATURE	68 °F	90 °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	183 SCFM	213 SCFM				
SITE AIR REQUIREMENT	206 ICFM	256 ICFM				
BLOWER INLET AIR	206 ICFM	256 ICFM				
AIR HEADER SIZE	4 IN	4 IN				
MIN. TANK VENT X-SECT. AREA	84.8 IN ² 2 EA 8" OR 1 EA 12"	105 IN ² 2 EA 10" OR 1 EA 12"				
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L				
NOISE LEVEL	dB(A)	dB(A)				
AIR TEMPERATURE RISE	30 F (16.7 C)	30 F (16.7 C)				
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT				
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT				
MOTOR SELECTION	5 HP	5 HP				
OPERATING POWER	3.3 HP	3.8 HP				
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ				
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ				

TABLE 3 STANDARD EQUIPMENT LIST					
DESCRIPTION QTY MAKE MODEL					
ECOPOD REACTOR	1	DELTA	E800D-N		
BLOWER	1	G-D SUTORBILT	PER TABLE 2		
CONTROL PANEL	1	DELTA			
EFFLUENT WEIR	1	DELTA	W2592-2		

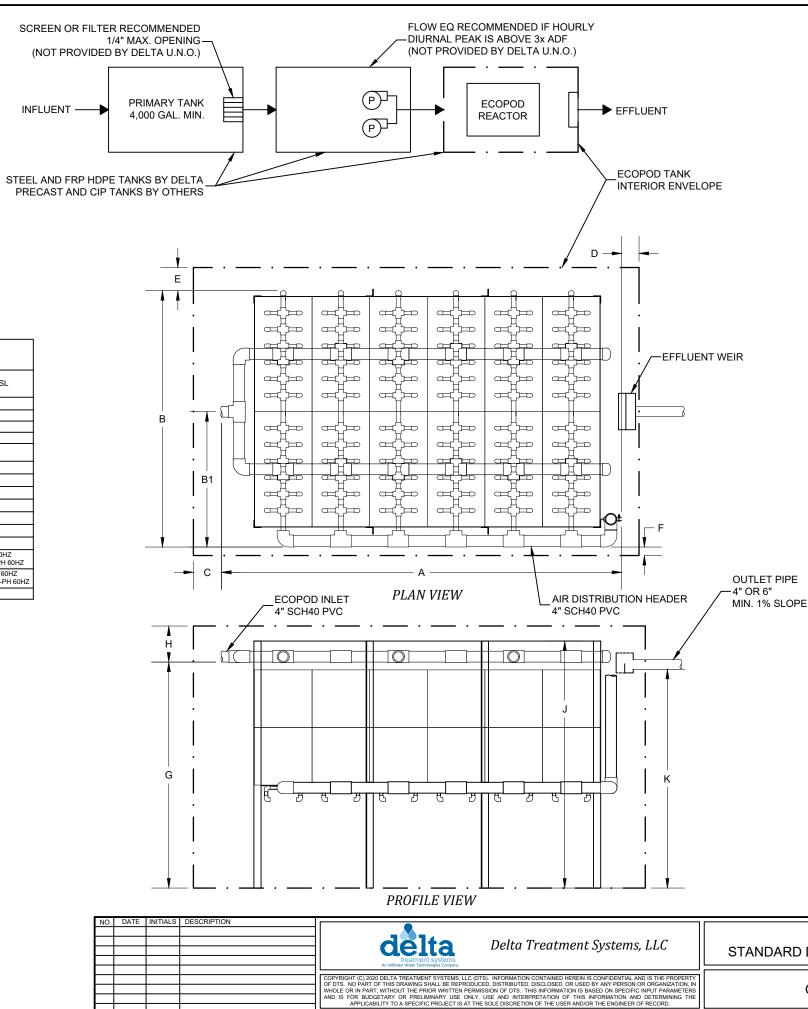


TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		AIR H	31 EADER DIM
FT	М	1	IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	300	762	60	153	33	84
0-3,000	0-914	2	167	425	108	275	57	145
0-3,000	0-914	3	215	547	84	214	45	115
	2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA							

REPRESENTATIVE FOR DETAILS.

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ		
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				

FOR SOLIDS REMOVAL ALONG VESSEL SIDES

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

DELTA ECOPOD E800D-N	HORIZ. SCALE N/A	PROJECT NO. N/A
DESIGN FOR BOD AND NITRIFICATION	VERT. SCALE N/A	DATE 02/11/2021
	DRAWN BY	DESIGNED BY
	CGK	AOB
GENERAL ARRANGEMENT	DRAWING NO.	SHEET NO.
	C1.0	01 of 01

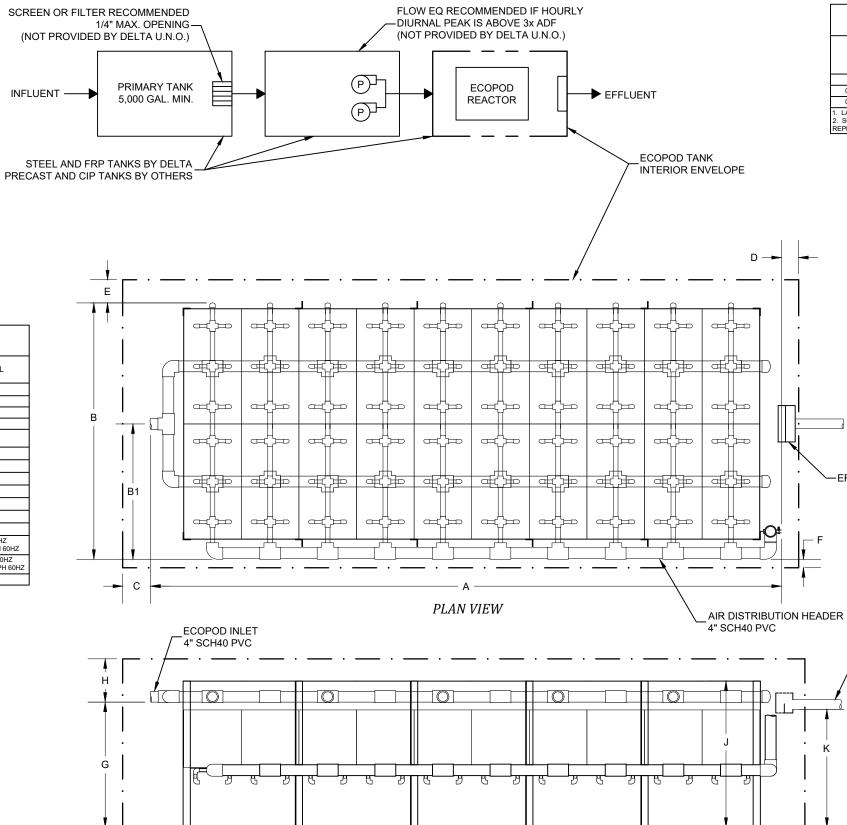
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- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WCOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 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. 4
- 5. 6
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TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	10,000 GPD			
PEAK DAILY FLOW	-	15,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	25 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °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	220 SCFM	256 SCFM			
SITE AIR REQUIREMENT	248 ICFM	307 ICFM			
BLOWER INLET AIR	248 ICFM	307 ICFM			
AIR HEADER SIZE	4 IN	4 IN			
MIN. TANK VENT X-SECT. AREA	102 IN ² 2 EA 10" OR 1 EA 12"	126 IN ² 3 EA 8" OR 2 EA 10"			
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L			
NOISE LEVEL	dB(A)	dB(A)			
AIR TEMPERATURE RISE	21 F (11.7 C)	20 F (11.1 C)			
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT			
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT			
MOTOR SELECTION	5 HP	5 HP			
OPERATING POWER	2.8 HP	3.4 HP			
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ			
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60H			

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION	QTY	MAKE	MODEL	
ECOPOD REACTOR	1	DELTA	E1000S	
BLOWER	1	G-D SUTORBILT	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



N	O DATE	INITIALS DESCRIPTION						,
H	0	·····					HORIZ. SCALE	PROJECT NO.
						DELTA ECOPOD E1000S	N/A	N/A
H				delta	Delta Treatment Systems, LLC		VERT. SCALE	DATE
				actu		STANDARD DESIGN FOR BOD REDUCTION	N/A	02/11/2021
				IFEAIMENT SYSTEMS An Infiltrator Water Technologies Company			DRAWN BY	DESIGNED BY
							CGK	AOB
					TS). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY			SHEET NO.
					CED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN IISSION OF DTS. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS		DRAWING NO.	SHEET NO.
					USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE		C1.0	01 of 01
			APPLIC	ICABILITY TO A SPECIFIC PROJECT IS AT TH	E SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.		01.0	010101
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS										
SITE ELE	VATION	LAYOUT ID	A OVERALL LENGTH		UT OVERALL O		RALL OVERALL		e Air He Cl	
FT	М		IN	CM	IN	CM	IN	CM		
0-3,000	0-914	1	263	669	108	275	57	145		
0-3,000	0-914	2	359	912	84	214	45	115		
1. LAYOUT 1 SI 2. SOME REAC REPRESENTAT	TOR LAYOUTS	S NOT AVAILA	BLE IN FIBE	ERGLASS T	ANKS. CO	NTACT AN	IWT/DELTA			

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
DIMENSION	IN	СМ			
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 H					

FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS

DIMENSION	IN	СМ	
G INLET INVERT	50	127	
H PLENUM SPACE ABOVE INLET INVERT	10	25	
J MEDIA REACTOR HEIGHT	59	150	
K OUTLET INVERT	47	119	
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.			

-EFFLUENT WEIR

- 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 OPTIONS: 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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, BI OWERS WEIDS 3.

- CARBON STEEL PER ASIM #36 w/COATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FREP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
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- 5.
- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
 STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183. 6

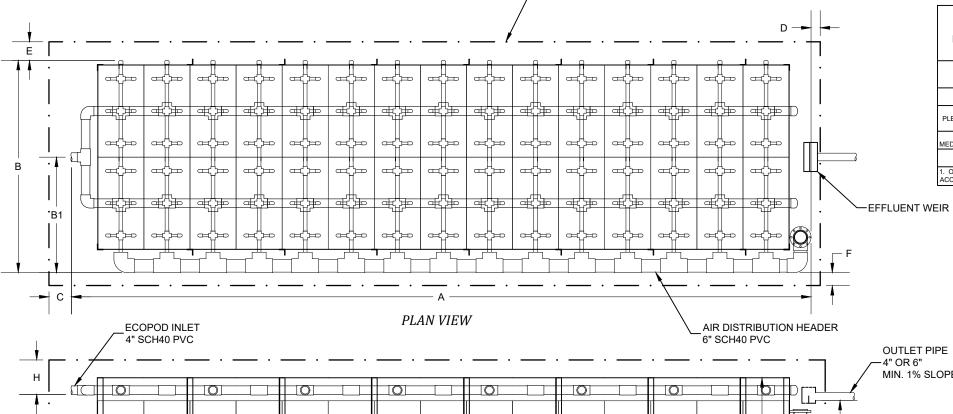
TABLE 1 PROCESS PARAMETERS					
PARAMETER	MINIMUM	MAXIMUM			
AVERAGE DAILY FLOW	-	10,000 GPD			
PEAK DAILY FLOW	-	15,000 GPD			
PEAK HOURLY FLOW	-	-			
INFLUENT BOD ₅	-	25 LB/DAY			
AIR TEMPERATURE	-20 °F	115 °F			
WATER TEMPERATURE	68 °F	90 °F			
RELATIVE HUMIDITY	10%	90%			
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL			

SCREEN OR FILTER RECOMMENDED	FLOW EQ RECOMMENDED IF HOURLY
1/4" MAX. OPENING	DIURNAL PEAK IS ABOVE 3x ADF
(NOT PROVIDED BY DELTA U.N.O.)	(NOT PROVIDED BY DELTA U.N.O.)
INFLUENT	P ECOPOD REACTOR EFFLUENT
STEEL AND FRP HDPE TANKS BY DELTA	ECOPOD TANK
PRECAST AND CIP TANKS BY OTHERS	INTERIOR ENVELOPE

	TABLE 2 AIR DEMAND	
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	416 SCFM	534 SCFM
SITE AIR REQUIREMENT	468 ICFM	641 ICFM
BLOWER INLET AIR	468 ICFM	641 ICFM
AIR HEADER SIZE	6 IN	6 IN
MIN. TANK VENT X-SECT. AREA	193 IN ² 1 EA 12"	264 IN ² 2 EA 12"
BLOWER SELECTION	G-D SUTORBILT 4L	G-D SUTORBILT 5L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	20 F (11.1 C)	20 F (11.1 C)
BLOWER INLET DIAMETER	3 NPT	4 NPT
BLOWER OUTLET DIAMETER	3 NPT	4 NPT
MOTOR SELECTION	7.5 HP	7.5 HP
OPERATING POWER	4.9 HP	6.2 HP
STARTING CURRENT	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ
FULL LOAD CURRENT	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ

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TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION	QTY	MAKE	MODEL	
ECOPOD REACTOR	1	DELTA	E1000S-N	
BLOWER	1	G-D SUTORBILT	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



PROFILE VIEW

NO. DA	TE INITIAL	S DESCRIPTION	Dolta Troatmont Systems IIC	POD E1000S-N R BOD AND NITRIFICATION	PROJECT NO. N/A DATE 02/11/2021 DESIGNED BY
			COOPVRIGHT (0) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTIBUTED, DISCLOSED, OR USED BY MAY PERSON OR ORCONNZATION, IN WHOLE OR IN PART OF THIS DRAWING SHALL BE REPRODUCED, DISTIBUTED, DISCLOSED, OR USED BY MAY PERSON OR ORCONNZATION, IN WHOLE OR IN PART OF THIS DRAWING SHALL BE REPRODUCED, DISTIBUTED, DISCLOSED, OR USED BY MAY PERSON OR ORCONNZATION, IN HIGH OR IN PART OF RELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENDINEER OF RECORD.	RRANGEMENT	AOB SHEET NO. 01 of 01

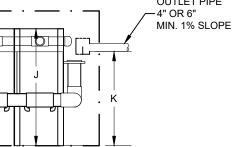
TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELEVATION		A LAYOUT OVERALL ID LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	386	981	113	288	62	158
0-3,000	0-914	2	506	1286	89	227	50	127
1. LAYOUT 1 SH 2. SOME REAC REPRESENTAT	TOR LAYOUTS	S NOT AVAILA	BLE IN FIBE	ERGLASS T	ANKS. CO	NTACT AN	IWT/DELTA	

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
DIMENSION IN CM					
C VESSEL FRONT SPACE	12	30			
D VESSEL REAR SPACE	18	46			
E AIR HEADER SIDE INSIDE 6 15 SPACE 6 15					
F NO HEADER SIDE INSIDE 6 15 SPACE 6 15					
1: ADDITIONAL ACCESS H	ATCHES RECC	MMENDED			

FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

TABLE 6

REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS				
DIMENSION IN CM				
G INLET INVERT	50	127		
H PLENUM SPACE ABOVE INLET INVERT	10	25		
J 59 150				
K OUTLET INVERT 47 119				
1. ONE (1 EA.) INLET AND ACCESS HATCH REQUIRE				



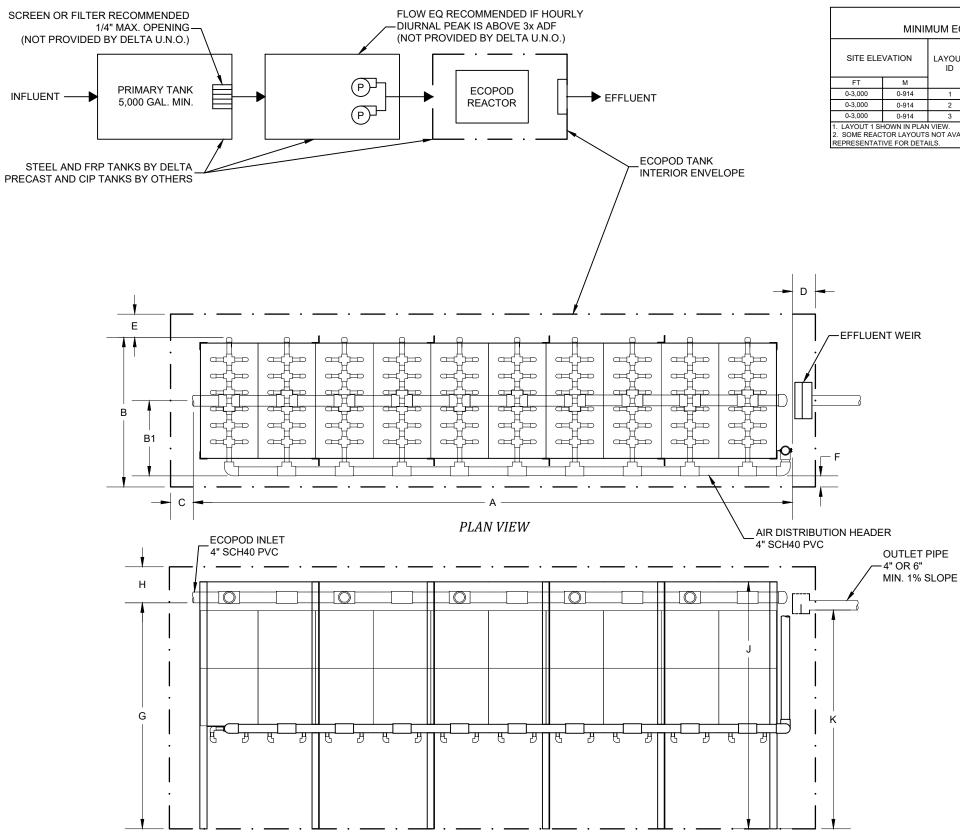
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- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WCOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 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. 4
- 5
- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS. STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183. 6

TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	10,000 GPD		
PEAK DAILY FLOW	-	15,000 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	25 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °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	134 SCFM	141 SCFM
SITE AIR REQUIREMENT	151 ICFM	170 ICFM
BLOWER INLET AIR	169 ICFM	169 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	69.6 IN ² 2 EA 8" OR 1 EA 10"	69.6 IN ² 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K06-MS	FPZ_SCL K06-MS
NOISE LEVEL	73.3 dB(A)	64.8 dB(A)
AIR TEMPERATURE RISE	32 F (17.8 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	4 HP	4 HP
OPERATING POWER	3.5 HP	3.5 HP
STARTING CURRENT	122/60.8 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	11.1/5.53 @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60HZ
	AIR TEMPERATURE WHEN SPECIFYIN GARDNER DENVER 3L ON HIGH ELEVAT	

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION	QTY	MAKE	MODEL	
ECOPOD REACTOR	1	DELTA	E1000D	
BLOWER	1	FPZ	PER TABLE 2	
CONTROL PANEL	1	DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



NO. DATE	INITIALS	Delta Treatment Systems, LLC STANE	DELTA ECOPOD E1000D	HORIZ. SCALE N/A VERT. SCALE N/A DRAWN BY	PROJECT NO. N/A DATE 02/11/2021 DESIGNED BY
		COPYRIGHT (C) 2020 DELTA TREATMENT SYSTEMS, LLC (DTS). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF DTS. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN WHOLC 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 TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	GENERAL ARRANGEMENT	cgk DRAWING NO. C1.0	AOB SHEET NO. 01 of 01

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELEVATION		LAYOUT ID	OVE	A RALL IGTH	OVE	B RALL DTH	AIR H	81 EADER DIM
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	250	635	59	150	32	82
0-3,000	0-914	2	141	359	107	272	56	143
0-3,000	0-3,000 0-914 3			481	83	211	44	112
1. LAYOUT 1 S 2. SOME REAC	TOR LAYOUT	S NOT AVAILAI	BLE IN FIBI	ERGLASS T	ANKS. CO	NTACT AN	IWT/DELTA	

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	СМ
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		

VAL ALONG VESSEL

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

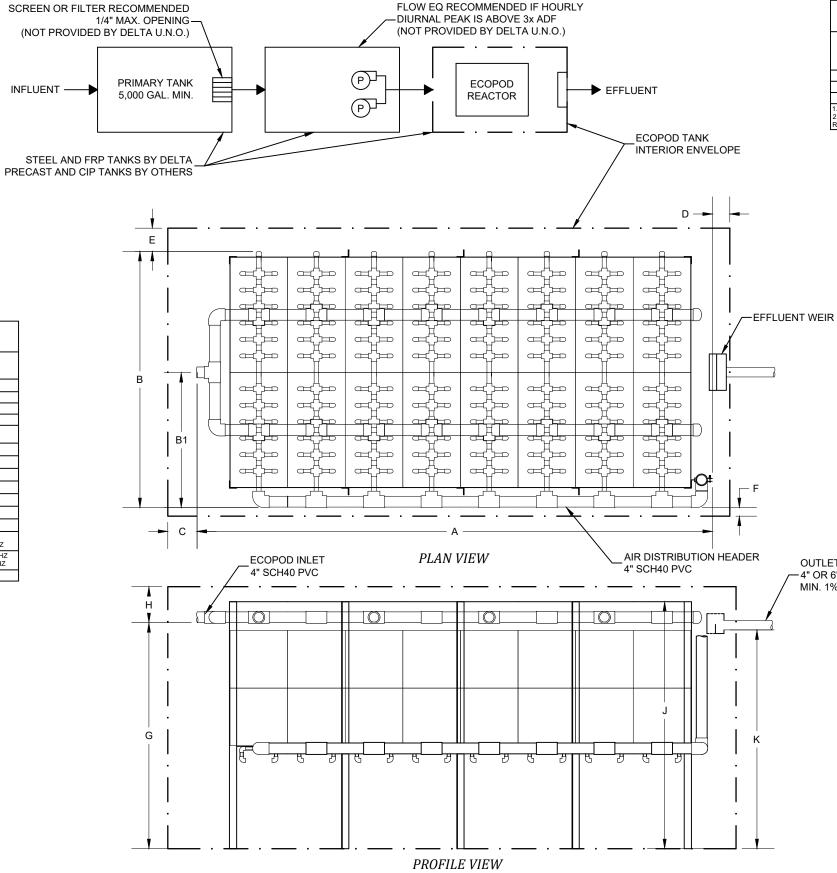
- GENERAL NOTES 1. THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1
- IN TABLE 1. ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL. TANK MATERIAL OPTIONS: 3.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS, 3

- 3.1. 3.2. 3.3. 3.4.
- CARBON STEEL PER ASIM #36 WCOATING PER DELLA STANDARDS;
 FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS);
 PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS;
 CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 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. 4
- 5
- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS. STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183. 6

TABLE 1 PROCESS PARAMETERS				
PARAMETER	MINIMUM	MAXIMUM		
AVERAGE DAILY FLOW	-	10,000 GPD		
PEAK DAILY FLOW	-	15,000 GPD		
PEAK HOURLY FLOW	-	-		
INFLUENT BOD ₅	-	25 LB/DAY		
AIR TEMPERATURE	-20 °F	115 °F		
WATER TEMPERATURE	68 °F	90 °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	229 SCFM	267 SCFM	
SITE AIR REQUIREMENT	258 ICFM	320 ICFM	
BLOWER INLET AIR	258 ICFM	320 ICFM	
AIR HEADER SIZE	4 IN	4 IN	
MIN. TANK VENT X-SECT. AREA	106 IN ² 2 EA 10" OR 1 EA 12"	132 IN ² 2 EA 10"	
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 4L	
NOISE LEVEL	dB(A)	dB(A)	
AIR TEMPERATURE RISE	28 F (15.6 C)	27 F (15 C)	
BLOWER INLET DIAMETER	2.5 NPT	3 NPT	
BLOWER OUTLET DIAMETER	2.5 NPT	3 NPT	
MOTOR SELECTION	5 HP	7.5 HP	
OPERATING POWER	3.8 HP	4.8 HP	
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ	
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ	
1. REVIEW BLOWER DISCHARGE	AIR TEMPERATURE WHEN SPECIFYING AIR	MAIN PIPING MATERIAL.	

TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION QTY MAKE MODEL				
ECOPOD REACTOR	1	DELTA	E1000D-N	
BLOWER	1	G-D SUTORBILT	PER TABLE 2	
CONTROL PANEL 1		DELTA		
EFFLUENT WEIR	1	DELTA	W2592-2	



NO.	DATE	INITIALS	DESCRIPTION		
					D
				delta Delta Treatment Systems, LLC	STANDARD D
				treatment systems An Infiltrator Water Technologies Company	
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				APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS								
SITE ELE	VATION	LAYOUT ID			B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	М		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	215	547	108	275	57	145
0-3,000	0-914	2	263	669	84	214	45	115
1. LAYOUT 2 SHOWN IN PLAN VIEW. 2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAIL S.								

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS					
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.

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 101 257				
K OUTLET INVERT	89	226		
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.				

DELTA ECOPOD E1000D-N RD DESIGN FOR BOD AND NITRIFICATION	HORIZ. SCALE N/A VERT. SCALE N/A	PROJECT NO. N/A DATE 02/11/2021
GENERAL ARRANGEMENT	DRAWN BY CGK DRAWING NO. C1.0	DESIGNED BY AOB SHEET NO. 01 of 01