

**GENERAL NOTES**

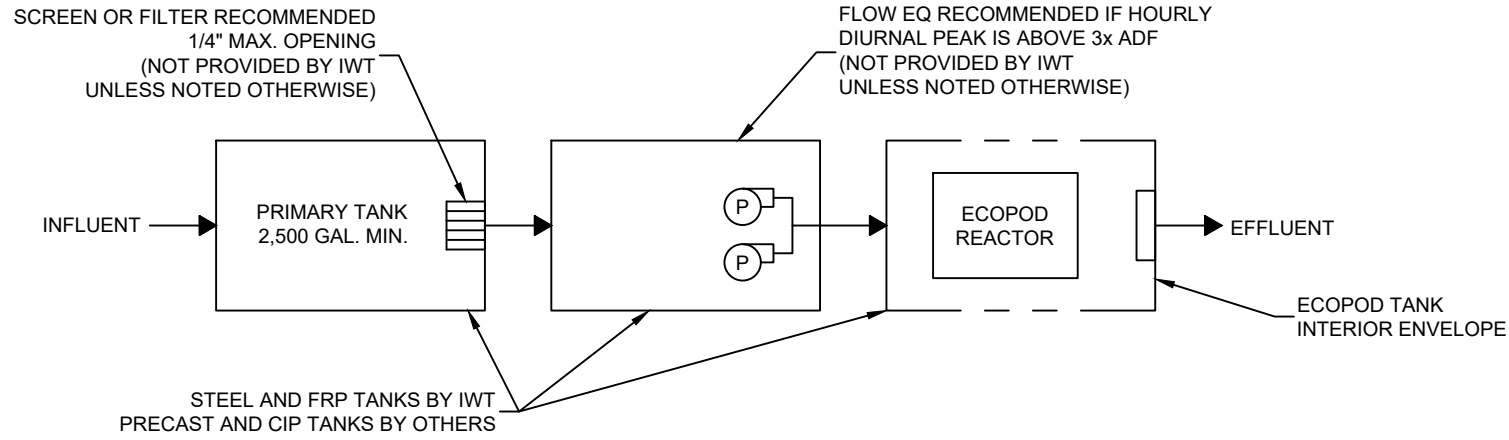
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1. COMMERCIAL OR NON-DOMESTIC WASTEWATER STREAMS ARE NOT INCLUDED IN THIS SCOPE AND MAY REQUIRE SEPARATE EVALUATION. CONTACT IWT FOR COMMERCIAL WASTEWATER TREATMENT REVIEW AND DESIGN REQUIREMENTS.
- ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
- TANK MATERIAL OPTIONS:
  - CARBON STEEL PER ASTM A36 w/COATING PER IWT 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.
- CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	5,000 GPD
PEAK DAILY FLOW	-	7,500 GPD
INFLUENT BOD <sub>5</sub>	-	12.5 LB/DAY
AIR TEMPERATURE	-	115 °F
WATER TEMPERATURE	68 °F	68 °F
RELATIVE HUMIDITY	10%	90%
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL

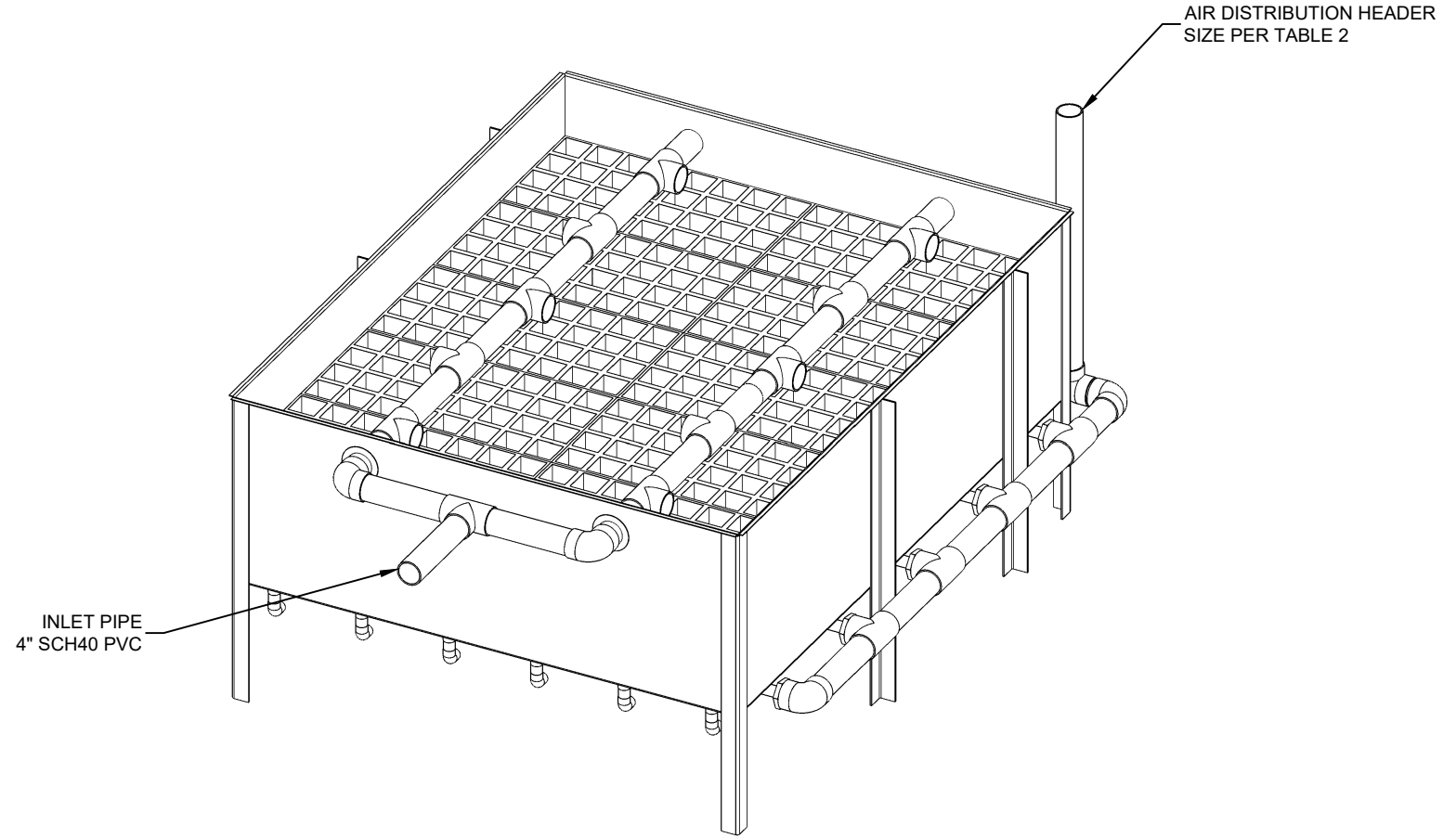
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	110 SCFM	128 SCFM
SITE AIR REQUIREMENT	124 ICFM	154 ICFM
BLOWER INLET AIR	141 ICFM	187 ICFM
AIR HEADER SIZE	3 IN	4 IN
MIN. TANK VENT X-SECT. AREA	58.0 IN <sup>2</sup> 2 EA 8" OR 1 EA 8"	76.9 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K05-TD	FPZ SCL K06-MS
NOISE LEVEL	73.0 dB(A)	73.0 dB(A)
AIR TEMPERATURE RISE <sup>1</sup>	24 F (13.3 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2 IN NPT	2 IN NPT
BLOWER OUTLET DIAMETER	2 IN NPT	2 IN NPT
MOTOR POWER RATING <sup>2</sup>	3 HP	3 HP
OPERATING POWER	1.3 KW	1.9 KW

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.  
2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	IWT	E500S
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	IWT	PER DESIGN
24" S.S. EFFLUENT WEIR	1	IWT	TROUGH-3.0



TYPICAL PROCESS DIAGRAM



ECOPOD REACTOR  
LAYOUT 2

NO.	DATE	INITIALS	DESCRIPTION
A	10/12/21	AOB	ADDED TRIMETRIC VIEW

**Infiltrator**  
Water Technologies  
Part of ADS

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ECOPOD E500S  
STANDARD DESIGN FOR BOD REDUCTION

GENERAL ARRANGEMENT  
DESIGN OVERVIEW

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

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