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Stinger™ Inclined Plate Clarifier

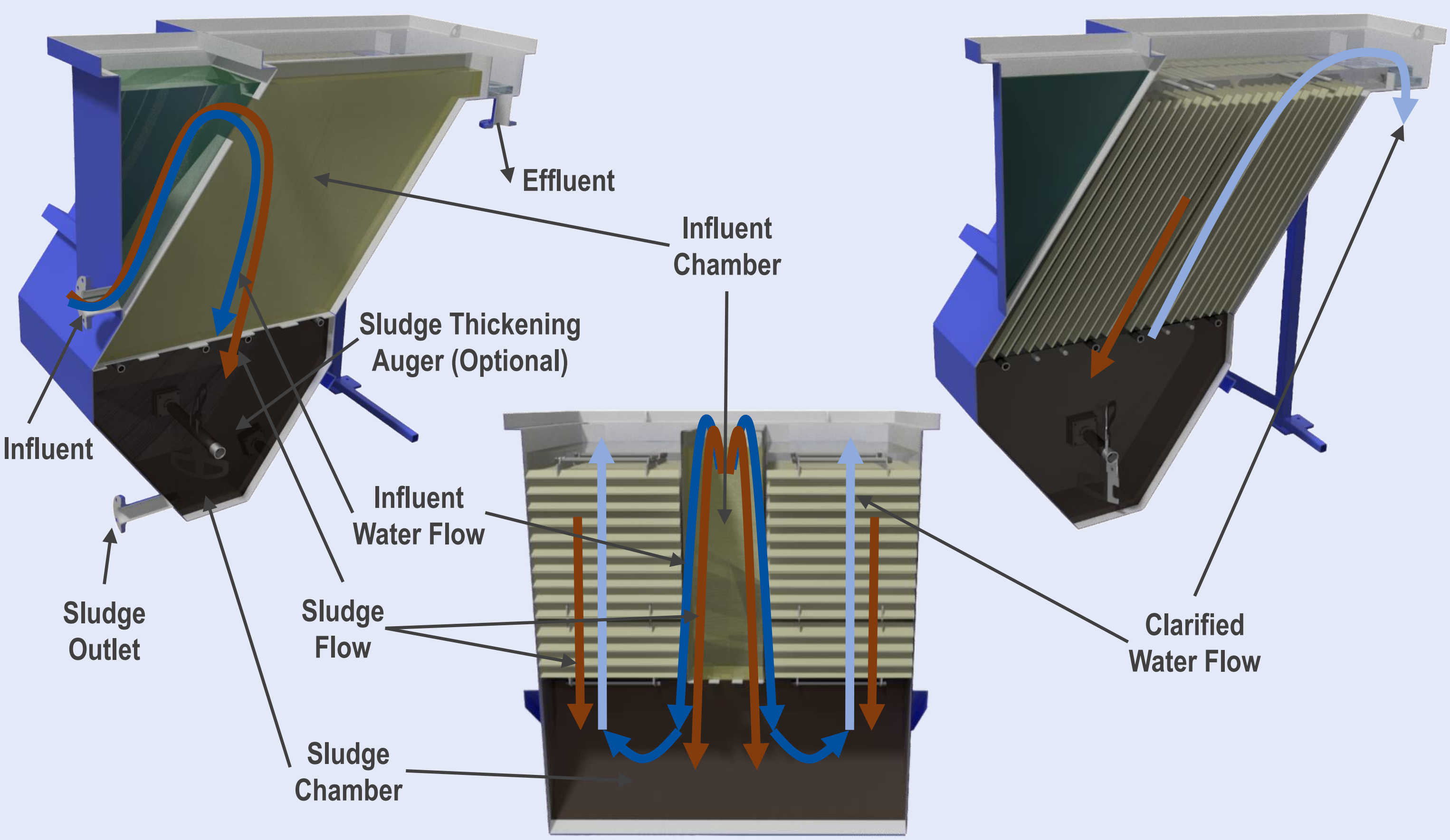
Highlights

- 5 to 240+ gpm flow-rate configuration
- Most economical unit available
- Equivalent to all standard lamella clarifiers
- Hopper bottom with integral sludge thickener auger

- ***Standard Features***
- Adjustable effluent V-notch troughs
- Epoxy coated ASTM A-36 carbon steel tank
- HDPE plate packs
- Stand-alone operation in a single above grade tank

Options

- ❑ Integral Flash and Flocculation chamber
- ❑ Integral mechanical sludge thickener
- ❑ Automatic sludge pump-out packages
- ❑ Effluent monitoring and sampling ports
- ❑ Polypropylene or 304/316 Stainless steel construction
- ❑ Influent / effluent lift stations
- ❑ Polypropylene / Stainless Steel plate packs



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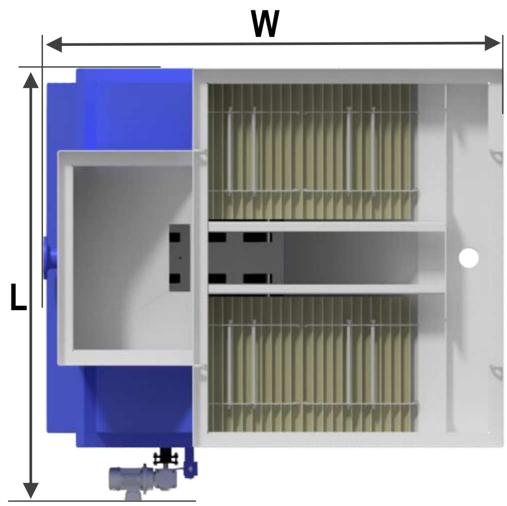

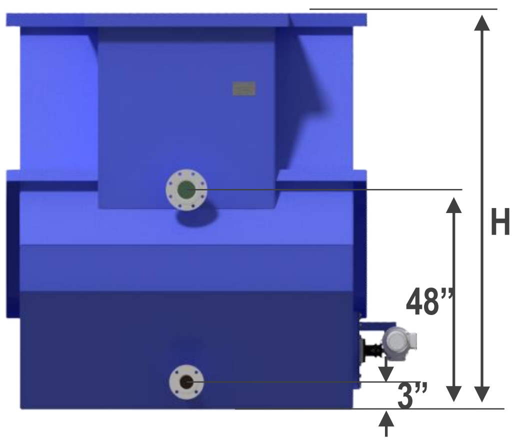

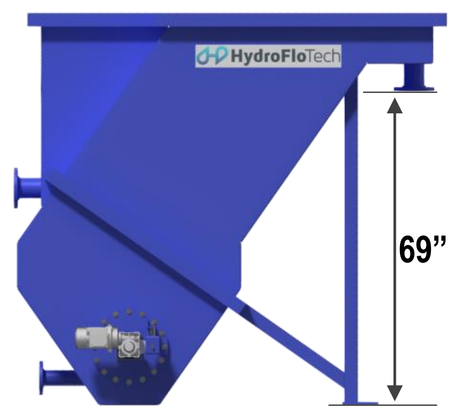

Stinger™ CLARIFIER STANDARD PRODUCT DATA SHEET							
MODEL #	2" PLATE SPACE		1" PLATE SPACE		UNIT DIMENSIONS (inches)		
CU FT	SQ FT	GPM*	SQ FT	GPM *	L	W	H
LS-010	34	9 - 12	68	17 - 24	3' - 4"	8”	7’ 4”
LS-020	68	17 - 24	137	35 - 48	4' - 4"	8”	7’ 4”
LS-030	103	26 - 37	206	52 - 73	5' - 1"	8”	7’ 4”
LS-040	137	35 - 48	275	69 - 97	5' - 10"	8”	7’ 4”
LS-050	172	43 - 61	344	86 - 121	6' - 10"	8”	7’ 4”
LS-060	206	52 - 73	412	103 - 145	7' - 7"	8”	7’ 4”
LS-070	240	60 - 84	481	121 - 169	9' - 4"	8”	7’ 4”
LS-080	275	69 - 97	550	138 - 193	10' - 7"	8”	7’ 4”
LS-090	309	78 - 109	619	155 - 217	11' - 4"	8”	7’ 4”
LS-100	344	86 - 121	688	172 - 241	12' - 1"	8”	7’ 4”

Stinger™ Inclined Plate Clarifier – Sample Projects

System Description

A complete 169 sf clarification system, including a four-stage chemical reaction system (pH adjustment, coagulation, flash / rapid mix, and flocculation with chemical dosing system and mixers), inclined plate clarifier, final pH neutralization, sludge settling tank, stainless steel control panel with PLC, instruments, effluent pumps, sludge pumps, sludge tank monitoring, and filter press for sludge dewatering.

Project Description

Six-stage iron phosphate / powder system. This 40 gpm process-wastewater treatment system was designed and built for installation at a new facility in Monterrey, Mexico for a 180 year-old electric company that is rapidly growing in the areas of software, critical power, and smart grid applications. This is a hydroxyl precipitation metals removal project. Treatment chemistry involves pH adjustments with calcium chloride, aluminum, and a flocculant.

System Description

Seven (7) complete 252 sf clarification systems, to including seven (7) clarifiers with two-stage flash / rapid mix flocculation systems, chemical feed systems to include storage and feed equipment for coagulant, polymer, sodium hypochlorite, and sodium hydroxide, multi-media sand filters, dual carbon filters, instrumentation, control panels for each system, and assorted tanks.

Project Description

Systems are operating at Marine Corps Air Station in Arizona. The treatment systems are designed to treat water generated from military vehicle wash racks at Yuma Main Station and Yuma Cannon Defense Complex at the Marine Corps Air Station. Main objective is for water reuse / reduced consumption. Flow rates typically range from 10-50 gpm.

System Description

A complete 255 sf clarification system, includes integral flash / rapid mix (300 gallons), and flocculation chamber (900 gallons), each equipped with mixers. OSHA approved caged ladder with ladder-fall protection and harness support system and OSHA-approved hand railings around top of clarifier platform. Bottom sludge auger designed to dewater sludge and grit as it moves to central point in bottom where it freely flows out sludge outlet nozzle.

Project Description

The 60 gpm stainless steel system is installed and operating at a main General Electric Power Plant in Schenectady, New York. The clarifier system was designed and selected based on the following criteria:
-Influent flow rate: 60 gpm | -pH: 10-12 | -Total Suspended Solids(TSS): 50-1,000 mg/L | -Required effluent solids: 10 mg/L.

System Description

A 72 sf Clarifier, 15 sf Dissolved Air Flotation (DAF) System, 15 gpm Fixed-Film Biological Treatment System (FFBR), four-stage chemical reaction system (pH Adjustment, Coagulation, Flash / Rapid Mix and Flocculation, with chemical dosing pumps and mixers),transfer pump skids, Sludge Dewatering and local Control Panel comprise this complete wastewater treatment system. Entire system is installed and operates from two (2) identical side-by-side 40 foot shipping containers that allow for future relocation flexibility.

Project Description

The 15-25 gpm treatment system is installed at a new 10,000 sf creamery facility just added to an existing milking operation in Ookala, Hawaii. Customer anticipates 5,000-10,000 gallons per day of effluent from the creamery operation, based on 24 hours/day. Plan to reuse the effluent from the wastewater treatment system in the washdown area(s). The treated water will collect in the catch basins (part of the sludge dewatering system) and be pumped back to the main equalization tank for processing.

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