Pan America Environmental, Inc.

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ENGINEERING SPECIFICATION

SPC Series Slant Plate Clarifier

Engineering Specification

GET A QUOTE	SPEAK TO AN ENGINEER
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PRODUCT PAGE

https://www.panamenv.com/clarifiers/spc-slant-plate-clarifier/

SECTION 1.0 EQUIPMENT

Performance

The Pan America Environmental SPC Series Slant Plate Clarifiers are designed to settle readily settleable and suspended solids using inclined plate and Lamella plate clarifier designs.

1.01 Design

The SPC Slant Plate Clarifier will be designed and fabricated per the following specifications. The tank shall be a rectangular steel design with features as described.

1.02 Influent Chamber

The influent chamber provides a velocity decreasing volume and influent diffusion that minimizes turbulence and velocities. An exit is provided at the bottom of this chamber to allow unimpeded, uniform flow of water and solids into the sludge/clarification chamber.

1.03 Solids/Clarification Chamber

Once the flow exits the influent chamber it redirects to the plate pack separation chamber(s). The flow is diverted from its vertical, downward path to a horizontal path to the solids/clarifying chambers. The readily settleable solids drop out in this chamber while the finer solids continue in an upward flow through the SPC plate packs. The effective plate angle of inclination will be 55° with a plate spacing of 1". The plate material provides a slippery surface that assists in solids removal. The SPC models are provided with either single, multiple inverted pyramid or V-shaped sludge hopper with sludge thickener system.

1.04 Flow Logic

The SPC design is based on a counter-current flow path.

1.05 Slant Plate Packs

The SPC is provided with multiple Slant Plate Packs, which consist of the following:

- Multiple plates bound together in pack orientation
- (2) Lifting lugs
- PVC plates and spacer system with 304 SS pack rods

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Plate spacing:	1"
Plate angle:	55°

1.06 Inverted Pyramid and Single Sludge Hopper Designs

The SPCs are provided with either the dual, inverted pyramid or single hopper style sludge hopper systems.

Inverted Pyramid	Model designation SPC-XX-P-XXXX

This style of hopper design is typically a dual hopper design where the two hoppers are evenly split and each has a sludge outlet of either 3" or 4" depending on tank size. This design allows a shorter overall tank height and the hopper system is either fully attached for shipping or removable for shipping and reattached on site. The detachable design is usually provided on the large SPC designs where excessive shipping heights are not permitted.

Single Hopper	Model Designation SPC-XX-S-XXXX

This style is a single hopper design and is standard on some smaller models and is fully attached for shipping. This design provides a single sludge outlet. When provided on large SPCs it is detached and reattached on site where excessive shipping heights are not permitted.

1.06 Sludge Thickener Auger System (optional) Model Designation SPC-XX-T-XXXX

The V-shaped solids chamber is provided with a rotating, sludge thickening auger. The auger consists of stainless steel shafts with a large diameter, helical ribbon style stainless steel screw auger with 304 SS flights driven by a slow speed gear motor drive assembly with an adjustable packing gland and anti-torque bracket. Submersible UHMWPE and bearings are provided. The auger extends the full length of the solids chamber and thickens and conveys solids to the sludge outlet. The hopper bottom angle facilitates movement of sludge toward the auger. Wetted hardware shall be 316 stainless steel. Motor: 1 HP, TEFC, inverter duty 230/460V/3pH/60Hz power required. Controls are by others.

The thickening system is used to break up compacted and/or dense sludge accumulations providing the action of turning or folding the material over at a slow rate facilitating water removal from the sludge phase and concentration of the solids content via hindered and compressive settling while also conveying the material to a discharge point (as compared to stirring the sludge in a single circular direction) results in a more consistent, less stratified sludge blanket. As the sludge compresses/thickens toward the center of the thickener and along the thickening blade compressing edge, water passes up into the clarifier at the thickeners ends and at its rising edge. In a vertical sludge rake, the only path for the escaping water is up through the developing sludge blanket, elevating the sludge blanket and slowing the thickening process. A horizontal thickening path presents a more convenient escape for entrained water than conventional vertical sludge rakes and generates a more consistent product for further thickening and dewatering.

Sludge from a thickener bottom clarifier would typically be in the 6-10% range by weight.

1.07 Lifting Lugs and Legs

The tank shall be provided with lifting lugs and legs. The legs will provide bolt -holes for anchoring to the installation surface.

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1.08 Slant Plate Chamber

A chamber is provided directly above the solids chamber for location of our SPC, Slant Plate Clarifier plates. This chamber allows easy removal and installation of the plates. The plates are provided as plate packs. Water collection weir troughs are located at the top of this chamber and provide an even water collection distribution across the width and length of the chamber. The water flows up from the bottom of the plates through all the plates for flow exposure to the entire plate surface area and enters multiple effluent pickup troughs above the plates. From the troughs the flow is transported to the effluent chamber where the flow exits the tank.

1.09 Effluent Collection Trough

Multiple effluent collection troughs are provided above the Slant Plate Packs to evenly collect treated water, convey it to the effluent chamber and maintain the static and operating water levels. The troughs will provide overflow access into the trough channel and will direct the flow to the effluent chamber. Each trough will be provided with a flow regulating orifice system. The troughs are to be constructed of 304 SS and are removable for maintenance.

1.10 Effluent Chamber

The water flows through the collection troughs and into the effluent chamber. A flanged outlet is provided. The effluent chamber will be provided spanning the entire width of the SPC tank.

1.11 Access Hatch

An access hatch is provided on hopper end wall for accessing the auger system and hopper. The hatch is a gasketed and bolted design with handles to remove. The hatch is to be 20" diameter minimum for maintenance passage.

1.12 Fittings

All fittings shall be ANSI, B16.5, 150# Flat Faced flange. All fittings shall be FNPT couplings up to 3".

1.13 Walkway

A steel constructed, continuous walkway is provided on one side of the SPC tank the full length of the tank. Construction shall be A36 carbon steel with external coating identical to the SPC exterior coat in safety yellow. Handrails, ladder access, decking, kick plates and self-closing access safety gate or chain are provided. Walkway is supported by the SPC tank via cantilevered design and will be detached for shipment. Design will follow OSHA requirements. Decking to be heavy duty expanded steel. Walkway width to be 32" and deck to top of tank height to be 42".

1.14 Sample Taps

Three (3) 1" sample taps are provided on the hopper end wall and will include brass ball valves for decanting sample.

1.15 Sludge Static Thickening & Timed Sludge Removal

The SPC hoppers can be used to increase sludge thickening by removing sludge on a timed basis, which gives the sludge time to continue to gravity thicken versus continuously removing sludge. By pumping sludge for 8-12 seconds every 30-60 minutes the system can be operated to take advantage of gravity thickening. While standard continuous sludge removal will provide an underflow sludge density in the 5-10% range, timed removal can provide higher densities perhaps increasing density 3-4 times greater than

continuous removal because continuous removal interrupts the gravity settling process leading to a more dilute sludge slurry.

Pumping rate is variable and should be compared to sludge hopper sampling at different levels to monitor densities at the different levels and to verify enough or too much sludge is being removed per cycle. If too much sludge is removed, shorten timed pump operation, if not enough, increase timed pump operation.

1.16 Field Technician

A Field Technician can be provided, ask for a quote, per diem is $1250.00 + expenses.

Applications

- industrial wastewater treatment clarifier
- metal hydroxide removal clarifier
- produced water treatment
- groundwater remediation clarifier
- mining wastewater clarifier
- food processing wastewater clarifier
- chemical plant wastewater clarifier
- backwash water clarification
- pretreatment before filtration
- tertiary treatment clarifier
- oil water separator with plate clarifier

Benefits & Features

- space saving clarifier
- compact wastewater clarifier
- high rate settling clarifier
- enhanced solids removal clarifier
- shallow depth sedimentation
- lamella plate pack
- 55-degree inclined plates
- reduced footprint clarifier
- gravity settling clarifier
- low maintenance plate clarifier

SECTION 2.0 ChemClear SYSTEM

2.01 Chemical Treatment System Model CT-CpF

The two-stage, pretreatment system will provide wastestream pH control, coagulation and flocculation on a continuous basis with the following components:

- (2) Reaction tanks
- (2) Variable speed mixers
- (3) Chemical metering pumps
- (2) Chemical makeup/storage tank

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- pH controller & sensor
- NEMA 4 controls

Tanks

The reaction tanks are provided in a single tank with two chambers. The first is for coagulation with pH neutralization and the second one is for flocculation.

Coagulation/pH

Dimensions:	pH/coag: 1000 gallons, 5.5’D X 10’H.
Construction:	The CRT tank, internal baffles, external structural will be constructed of A36 carbon steel. will be 304 SS.
Covers:	None, open top.
Drain:	2” with manual valve.

Flocculation

Dimensions:	Flocculation: 500 gallons, 8’D X 10’H.
Construction:	The CRT tank, internal baffles, external structural will be constructed of A36 carbon steel. will be 304 SS,
Covers:	None, open top.
Drain:	2” with manual valve
Surface Prep:	Interior surfaces shall be prepared to an SSPC-SP10 near white metal blast. Exterior surfaces shall be prepared to an SSPC-SP6 commercial blast.
Coatings:	Interior coating shall be coated with Ameron High Build Coal Tar Epoxy Amercoat 78HB (18-20 mils DFT). Exterior coating shall be coated with Ameron epoxy primer, Amerlock 2, (5-8 mils DFT). Final coat to be Ameron Amershield Aliphatic Polyurethane Enamel coat (5 mils DFT). Surface color to be Green RT-2203.
Mixers:	0-425 RPM (or other RPM range), adjustable universal mount, TEFC inverter duty motor, heavy duty gear box with 316 stainless steel impeller shaft and dual axial flow style impellers. Mixer controls will be located in system main control panel and will include a variable speed, programmable, AC drive with speed knobs on front of control panel door.

Chemical Metering Pumps

pH & Coagulant:	Three (3) pumps are provided. Pumps will be an electronic, solenoid driven or motor driven chemical metering pump. Each pump will be compatibility matched to the chemical being metered. All pumps will have frequency and stroke adjustment located on face of pump. One pump is provided for the pH adjustment stage to control pH in one direction. One pump is provided for flocculant injection and is designed for higher viscosity pumping.
Flocculant:	A polymer activation system is provided to create a flocculant solution on demand. The system will have aging cell, fresh water supply solenoid, dosing pump, water rotameter, water pressure switch and gauge, water strainer, local-off-remote switch control, loss-of-water interlock, local manual polymer feed override, 4-20mA pump controls for pacing to influent feed (influent feed pacing method not provided).
Makeup tank:	Two makeup systems are provided:

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One (1) coagulant makeup tank is provided and includes: 100 gallon polyethylene makeup/storage tank, mixer, manual on/off controls in MCP. Tank has 8" access hatch for inspection and adding liquid or dry coagulant, ¾" fresh water addition fitting with valve.

One (1) flocculant makeup tank is provided and includes: 50 gallon polyethylene makeup/storage tank, mixer, manual on/off controls in MCP. Tank has 6" access hatch for inspection and adding liquid or dry coagulant, ¾" fresh water addition fitting with valve.

pH Instruments

pH Controller:	The wasteflow pH will be continuously monitored and chemical metering pump controlled by a microprocessor based controller transmitter with tactile keyboard, large, bright, 5 character LED readout. Controller features shall include: switch selectable operation in pH units or mV, isolated 4-20 mA powered output, self configurable for manual temperature or ATC, dual relay outputs for alarms or control, adjustable or built-in deadband. pH range is to be 0-14 pH with a resolution of at least 0.01 pH. The controller shall be housed in the system MCP.
pH Probe:	The pH probe shall be a flat surfaced, sealed reference design. The probe will be detachable. Probe construction will be CPVC. The probe will be mounted to a quick remove/replace assembly to allow removal and replacement without tools. Probe to be wired to the controller via a wire lead or BNC style cable.

Component & Process Types

- chemical feed system
- chemical injection system
- coagulant feed system
- flocculant dosing system
- pH control system
- ORP control system
- neutralization tank
- reaction tank pretreatment
- automated chemical dosing
- SCADA chemical pretreatment
- skid-mounted pretreatment system
- pretreatment chemicals
- pretreatment for powder coating
- pretreatment for painting

SECTION 3.0 PUMPING SYSTEMS

3.01 Influent Feed System — Model IFS-5-AO

Description: The Influent Feed System will provide the capability of transferring the wastestream from the below grade collection sump to the inlet of the OS Series separator. The system can be operated via manual or automatic mode.

Components:

- 1/2" air operated, double diaphragm pump with aluminum body/Buna-N diaphragms and check valves. Pump will be plumbed with a ball valve on inlet and outlet. Pump to be base mounted to a 304 SS base.
- Filter, regulator, metering valve and electric solenoid valve will be provided mounted to the pump base for filtering, regulation, fine meter control and on/off of air flow to pump. The assembly will include an air hose from assembly discharge to pump air inlet.
- Controls will be included in the MCP with HOA operation to control manual and automatic on/off of pump based on high/low levels in sump. Two float switches will be provided loose for installation in the collection sump (by others).

3.02 Sludge Pumpout System — Model SPS-10-AO

Description: The Sludge Pumpout System will provide the capability of transferring settled sludge from the DAF sludge hoppers. The system is designed per the following:

Components:

- One (1) 1" air operated, double diaphragm pump with aluminum body/Buna-N diaphragms and check valves. Pump will be plumbed with a ball valve on inlet and outlet. Pump will be mounted to the DAF tank and plumbed to sludge outlet(s) provided in the sludge hopper.
- Filter, regulator, metering valve and electric solenoid valves will be provided mounted to the pump base for filtering, regulation, fine meter control and on/off of air flow to pump. The assembly will include an air hose from assembly discharge to pump air inlet.
- Controls: An HOA allows manual and auto operation based on two adjustable timers are provided to control the pump on and off times.

3.03 Effluent Pumpout & Filtration System — Model EPS-50

Description: The Effluent Pumpout System will provide the capability of transferring the treated DAF effluent from the effluent chamber of the tank to down stream processes or discharge to drain. The system can be operated via manual or automatic mode.

Components:

- Centrifugal, multi-stage pump plumbed with ball valves on inlet and outlet. Pump construction: cast iron volute and impeller. Pump to be base mounted to a carbon steel, enamel coated base or to the tank. Pump will be plumbed, wired and tested prior to shipment. Pump performance will be 5 GPM @ 115' TDH. Piping is to be sch. 80 PVC. Motor to be TEFC.
- Control is included with HOA operation to control manual and automatic on/off of pump based on high/low levels in tank effluent chamber. Two float switches will be provided installed in the effluent tank. Controls are integrated into MCP.
- Effluent tank: 25 gallon, polyethylene, flat bottom, domed top, 2 pt level switch assembly for pump control. Tank is plumbed to DAF effluent via schedule 80 PVC pipe.
- Bag filter: Two (2) 7"D X 30" aluminum housing with isolation valve on inlet/outlets. Inlet/outlet pressure gauges provided. Drain valve at bottom of vessel. Filter is plumbed to the DAF effluent pump via schedule 80 PVC pipe. A pressure differential sensor is provided for high pressure alarming. One (1) case of 25 filter bags is provided 25-micron size.

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SECTION 4.0 CONTROLS

4.01 Master Control Panel (MCP)

The options provided with this quotation will include controls that will be integrated into one, centralized Master Control Panel (MCP). The MCP will provide the following controls:

- CT mixers control with VFDs
- CT chemical pumps control
- CT chemical makeup system control
- pH controller located in door
- DAF float pump
- DAF drag skimmer with adjustable timers
- RSS recycle controls
- (2) Sludge pumpout systems with HOA switch for manual and automatic on/off and adjustable timers to automate the on and off periods
- Influent feed system with HOA switch for manual and automatic on/off based on level switches.
- Effluent pumpout system with HOA switch for manual and automatic on/off based on level switches.
- HMI operator interface
- Alarms, lights, horn and alarm silence push button provided.
- Power disconnect, transformer, circuit breakers are provided to accommodate a 3 phase input power.
- LED lights, metallic 2 & 3 position switches, all 22 mm.

MCP power required:	230 or 460V/3pH/60Hz.
Control power:	110V/1pH/60 Hz.
Enclosure:	NEMA 4, steel construction, ANSI 61 grey enamel coating.
Designed per:	UL508, NEC
Conduit:	EMT/Liquid tight
Wire:	THHN
Logic:	PLC

PLC Based Design

The MCP will be provided as a PLC based logic design. The system is as follows:

- Unitronics Unistream 10.4 PLC/HMI system or equal.
- 10.4" HMI color touchscreen
- Unilogic software for PLC & HMI programming is provided.
- SD card
- Datalogging
- Ethernet ready

  Pan America Environmental, Inc Intell-i-Touch wastewater treatment control system
- Proprietary PLC/HMI logic
- Touch screen menuing system specific to your treatment system

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Communications Capabilities

- TCP/IP via Ethernet
- MODBUS and other protocol support

Alarms

The following alarms are provided:

- High effluent tank water
- High bag filter pressure

System Types

- chemical pretreatment system for industrial wastewater
- automated pH adjustment and coagulation system
- heavy metals removal chemical pretreatment
- pretreatment system before DAF or clarifier
- chemical pretreatment for metal finishing
- phosphate conversion coating pretreatment washer
- low sludge chemical pretreatment system
- eco-friendly chemical pretreatment
- custom chemical pretreatment equipment
- turnkey chemical pretreatment solutions
- pretreatment system for manufacturing wastewater
- chemical pretreatment for compliance with discharge limits

SECTION 5.0 SLUDGE DEWATERING SYSTEM

5.01 Sludge dewatering system

A dewatering system is provided to collect the sludge and float from the DAF and pump these sludges through a dewatering filter press to reduce water content before disposal of the solids sludge. The filter press typically reduces sludges to 35% water content. The system components for the system are per the following details:

Filter Press

- 20 Ft3 volume expandable to 30 Ft3
- 800mm plates, polypropylene construction
- Painted steel framework
- Polypropylene filter clothes
- PVC head connections, 1.5" center feed, 1.5" top & bottom corner air inlets/outlets, 1.5" top & bottom wash/air filtrate outlets
- Inlet pressure gauge
- PVC air blow down manifold w/manual valves
- Self-dumping cake cart
- Manual plate shifting
- Manual hydraulic power unit closing device

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Storage Tank

- 1750 gallon
- Tank and stand are polyethylene construction
- Cone bottom design
- Sludge discharge outlet in cone w/valve
- 87"D X 96"H

Filter Press Feed Pump

Description: The filter press sludge feed system will provide the capability of transferring settled sludge from the sludge tank hopper. The system can be operated via manual or automatic mode.

Components:

- 1.5" air operated, double diaphragm pump with aluminum body/Buna-N diaphragms and check valves. Pump will be plumbed with a PVC ball valve on inlet and outlet. Pump is to be mounted to an enamel coated base.
- Filter, regulator, metering valve and electric solenoid valve will be provided mounted to the pump base for filtering, regulation, fine meter control and on/off of air flow to pump. The assembly will include an air hose from assembly discharge to pump air inlet.
- Controls will be included in the MCP with HOA operation to control manual and automatic on/off of pump based on high & low level in the sludge tank.

Applications

- wastewater treatment sludge dewatering
- municipal sludge dewatering
- industrial wastewater sludge dewatering
- sewage sludge dewatering
- dairy sludge dewatering
- food processing sludge dewatering
- pulp and paper sludge dewatering
- mining sludge dewatering
- petrochemical sludge dewatering

SECTION 6.0 SUBMITTAL PACKAGE

6.01 Submittal Approval Package

Upon receiving an order Pan America Environmental will engineer and produce a Submittal Approval Package, which allows you the customer to review and change or keep aspects of the system detailed in this quote. The submittal package provides the following at a minimum:

- General arrangement drawings, 2D, 3D, plan, end, sectional, detail and other views
- Hydraulic profile
- Electrical schematics
- Control panel physical layout
- Process/control narrative (where project size is applicable)
- Component datasheets
- Component cutsheets

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Options

- P&ID
- Structural, seismic, wind load, lifting lug review, anchorage and/or other PE review calculations
- Design sizing PE calculations and/or calculations of any other types
- Testing review and implementation during fabrication and assembly, i.e. NDT, NDE, radiographic, x-ray, ultrasonic, magnetic particle exam, others
- Piping testing per desired standards, i.e. ASME B31.1 power piping, ASME B31.3 process piping
- Rigging and lifting guide, drawings and/or procedures and methods
- WPS, ITP, PQR, PMI, others
- Document, QC report and/or other project document binder
- Mill certificates

Revisions & Meetings

The submittal package contains a limited amount of engineering and provides a maximum of Two (2) revisions of up to 10% maximum each. This quote does not include open ended, extensive or continuous revisions until approval is given. This submittal package does not include: Iterative R&D and review projects, design/redesign projects, pre-submittal before or after order placement to attain approval from the end user before order is placed, honored or executed by Buyer, engineers/consultants, contractors and/or other parties involved with this project. In addition, numerous and/or excessive meetings relative to the system design and complexity are not provided as PAE strives to have all valuable communications in writing so as to create a trackable/traceable project evolution.

Engineering Only

The quota The submittal and quotation provide a limited amount of engineering and do not provide “Engineering Only”. The limited engineering is part of the system cost and is provided to give direction and final understanding as to what is being provided to you in the system design. The quoted and submitted system is a proprietary PAE product and PAE will not produce drawings for you to build, license, bid out or produce and/or market as your product for your or any other entities use.

SECTION 7.0 MATERIALS OF CONSTRUCTION

7.01 Steel Construction

Tank shell, baffles and external structural members shall be constructed of ASTM A-36 carbon steel. Welded joints are double welded and dye penetrant tested. Fabrication will follow AWS welding standards.

7.02 Surface Preparation

Interior surfaces shall be prepared to an SSPC-SP10 near white metal blast. Exterior surfaces shall be prepared to an SSPC-SP6 commercial blast.

7.03 Coatings

Interior coating shall be coated with Ameron High Build Coal Tar Epoxy Amercoat 78HB (18-20 mils DFT). Exterior coating shall be coated with Ameron epoxy primer, Amerlock 2, (5-8 mils DFT). Final coat to be Ameron Amershield Aliphatic Polyurethane Enamel coat (5 mils DFT). Surface color to be Green RT-2203.

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7.04 SPC Plates

Slant plates will be constructed of PVC and provided in plate packs.

7.05 Internal Piping

Internal piping shall be ASTM A-53 black pipe.

7.06 Effluent Collection Troughs

Effluent Collection Trough construction will be 304 SS.

7.07 Hardware

All wetted hardware shall be ANSI, 304 stainless steel minimum. All non-wetted hardware to be ANSI, zinc plated.

7.08 Manufacturer

The manufacturer of preference shall be: Pan America Environmental, Inc.

7.09 Warranty

Pan America Environmental warrants its products to be free of defect in materials and workmanship for a period of one year from the date of shipment.

SECTION 8.0 FREIGHT AND SHIPPING PREPARATION

8.01 Freight Cost

The quoted freight cost is an actual or estimated cost. This cost is subject to change throughout the life of the quote and any resultant order.

8.02 Palletizing

All equipment prices include palletization where required.

SPC Slant Plate Clarifier Systems

Please refer to our SPC brochure for dimension and capacity details

for the models quoted.



Pyramid Bottom *Pages 4-8*

Standard Specification

Model	SPC-XX-P-XXXX
Hopper style	1 or 2 pyramid
Influent chamber	1 or 2
Effluent chamber	1
Sludge hopper	1 or 2
Overflow trough	2 or 3
Tank material	A36 carbon steel
Trough material	304 SS
Plate material	PVC
Plate spacing	1"
Fittings	B16.5 Flange
Plate packs	1 or more
Tank lift lug	4 +
Alternate plate spacing avail.	1.25"/1.5"/2"
Internal coating	Coal tar epoxy
External coating	Polyurethane enamel



Thickener Bottom *Pages 9-12*

Standard Specification

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Model	SPC-XX-T-XXXX
Hopper style	Thickener bottom
Influent chamber	1 or 2
Effluent chamber	1
Sludge hopper	1
Overflow trough	2 or 3
Tank material	A36 carbon steel
Trough material	304 SS
Plate material	PVC
Plate spacing	1"
Fittings	B16.5 Flange
Plate packs	1 or more
Tank lift lug	4 +
Alternate plate spacing avail.	1.25"/1.5"/2"
Internal coating	Coal tar epoxy
External coating	Polyurethane enamel
Thickening auger	1
Auger material	304 SS



Single Hopper *Pages 13-15*

Standard Specification

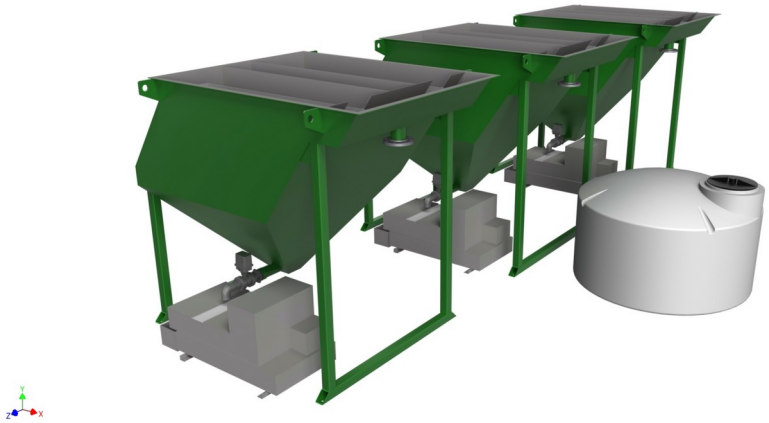
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Model	SPC-XX-S-XXXX
Hopper style	Single pyramid
Influent chamber	1 or 2
Effluent chamber	1
Sludge hopper	1
Overflow trough	2 or 3
Tank material	A36 carbon steel
Trough material	304 SS
Plate material	PVC
Plate spacing	1"
Fittings	B16.5 Flange
Plate packs	1 or more
Tank lift lug	4 +
Alternate plate spacing avail.	1.25"/1.5"/2"
Internal coating	Coal tar epoxy
External coating	Polyurethane enamel
Hopper removable	Based on size





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Specifying an SPC Series Slant Plate Clarifier for your project?

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