



ALKOTA WASTEWATER TREATMENT SYSTEMS

Alkota O3 Continuous Flow Flocculation Skid



SAVES SPACE

- Space efficient design allows easy maintenance while requiring minimal floor space.

MEETS DISCHARGE REQUIREMENTS

- Your choice: Because of the consistent high quality of the water processed by the Alkota Wastewater O3 Continuous Flow Flocculation Skid, the closed loop quality water also meets most typical sanitary sewer discharge requirements.

CUTS DISPOSAL COSTS

- By reducing the volume of your waste, typically by 80-99%, your disposal costs are reduced proportionally while contaminants are reduced up to 99%.

Available options

- Table vacuum
- Ph controller
- Metal precipitation
- Pretreatment clarification
- PLC controls

Applications

Wash rack closed loop recycling

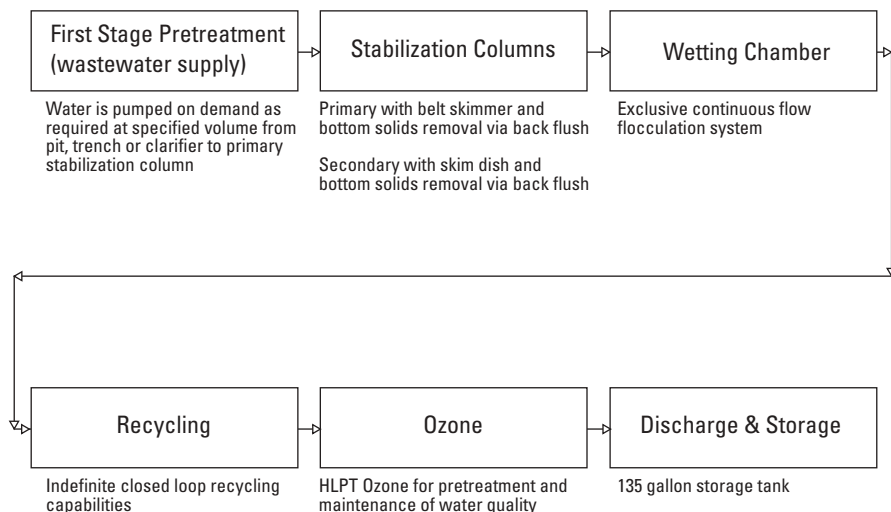
- Car washing
- Truck washing
- Train washing
- Rental industries
- Construction industries
- Industrial wastewaters
- Drilling industries

INTEGRATED TREATMENT METHODS

- STABILIZATION
- OZONATION
- COAGULATION
- COALESCENCE
- FLOCCULATION
- FILTRATION

MAJOR PROCESS COMPONENTS

- O3 (OZONE)
- STABILIZATION COLUMNS
- MIXING CHAMBER
- WETTING CHAMBER
- PROCESS PUMP
- FILTER TABLE
- RE-PRESSURE SYSTEM
- STORAGE TANK
- HLPT (HIGH LEVEL PRE-TREATMENT) OZONE



MAJOR ADVANTAGE FACTORS

Safe

- The monitored system delivers a re-use water quality that is safe air compliant.
- Off gassing from chlorine, bromine and hydrogen peroxide is eliminated due to the non-use of these common process chemicals.

Reliable

- The multiple technology system is designed to overcome the failures of yesterday's technologies.

Low Operational Cost

- Treatment costs pennies per gallon.

Minimal Maintenance

- Auto flushing filters
- Bottom tank back flushable cleanouts
- Typical maintenance averages 5 minutes a day

Efficient

- Multi-technology
- Logic controlled
- Variable speed

All treatment components are logic controlled and variable speed to ensure coverage of all common wastewater varieties.

Alkota exclusives: Incorporating continuous flow non-shear flocculation technology and HLPT Ozone.

SPECIFICATIONS

- 1/3 HP process pump and variable speed electrical control
- 1/12 HP, 3/4" auger flocculent injection, .8 cu. ft. hopper and variable speed electrical control
- 1/12 HP, 24" x 6' filtration table and variable speed electrical control
- 11.5 gallon inverted flow stabilization column with ozone diffusion, 92 sq. ft. polypropylene media surface area, skim and foam control
- Exclusive 1 gallon skim column
- 3.9 g/hr @ 1.6% Corona discharge ozone with 6.6 SCFH (standard cubic feet per hour) oxygen concentrator air prep unit and monitor, alarm, strobe and automatic shutdown
- Exclusive 7 gallon wetting chamber fully automatic with final rinse
- 135 gallon storage tank with ozone diffusion and automatic fresh water make-up
- Media filter with .6 cubic feet coarse media
- 3/4 HP re-pressurization system
- 250 mesh spin down filter with automatic timer control back flush
- 6 CFM ventilation fan
- 2" 115VAC belt skimmer
- Heavy-duty steel frame with forklift guides and leveling bolts
- Mounted eyewash and MSDS board
- Relay and timer logic electronic controls ensure reliability and ease of operation
- 6' L x 4' W x 8' H
- 115VAC 40-amp service required, 27-amp draw



OLD VALUES. NEW IDEAS.

Alcester, South Dakota 57001
1.800.255.6823 www.alkota.com

The answer that incorporates the best technology has to offer...
Alkota Wastewater Treatment

Wastewater Management Systems

Ozonation Garnet

Treats water of suspended solids for discharge using ozonation and garnet media filtration.

Models
OGSD6 Ozonation Garnet Surface Discharge Skid 6 GPM



Ozonation Garnet

Ozonation Skids

Uses ozonation for pre-treatment for flocculation and bacterial control.

Models
O3S Ozonation Skid

Manual Batch System

Uses flocculation to remove oils and solids from the waste stream.

Models
MB100SS Manual Batch 100 gallon stainless steel
MB300SS Manual Batch 300 gallon stainless steel



Manual Batch System

Ozonation Stabilization Column

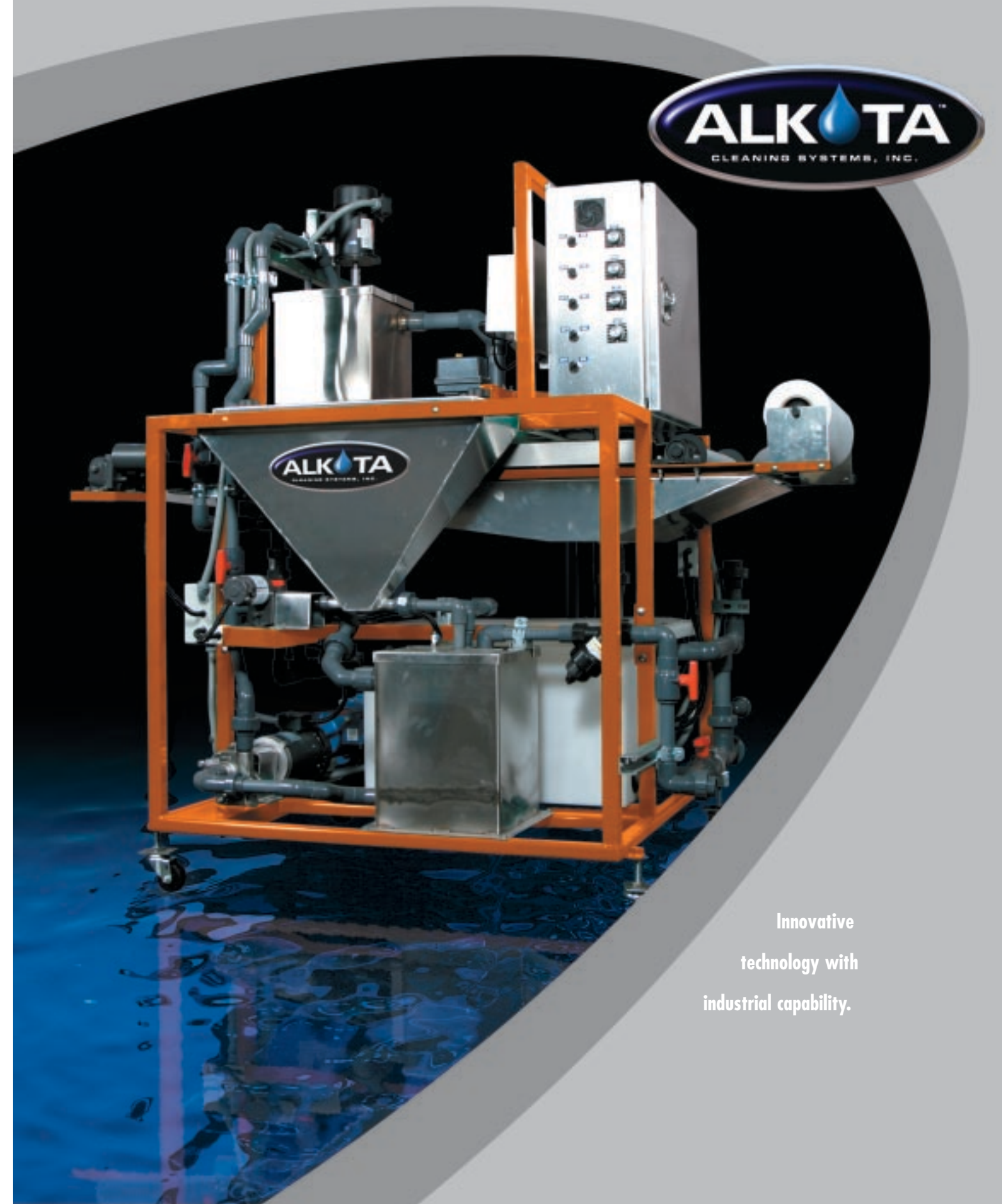
Removes oils and CODs while eliminating BODs with coalescing matrix and ozonation.

Models
O3SCB Ozonation Stabilization Column 8 GPM
O3SC30 Ozonation Stabilization Column 30 GPM

Take the difficulty and expense out of your wastewater treatment plan. Contact Alkota Cleaning Systems for more information on our innovative treatment systems today.



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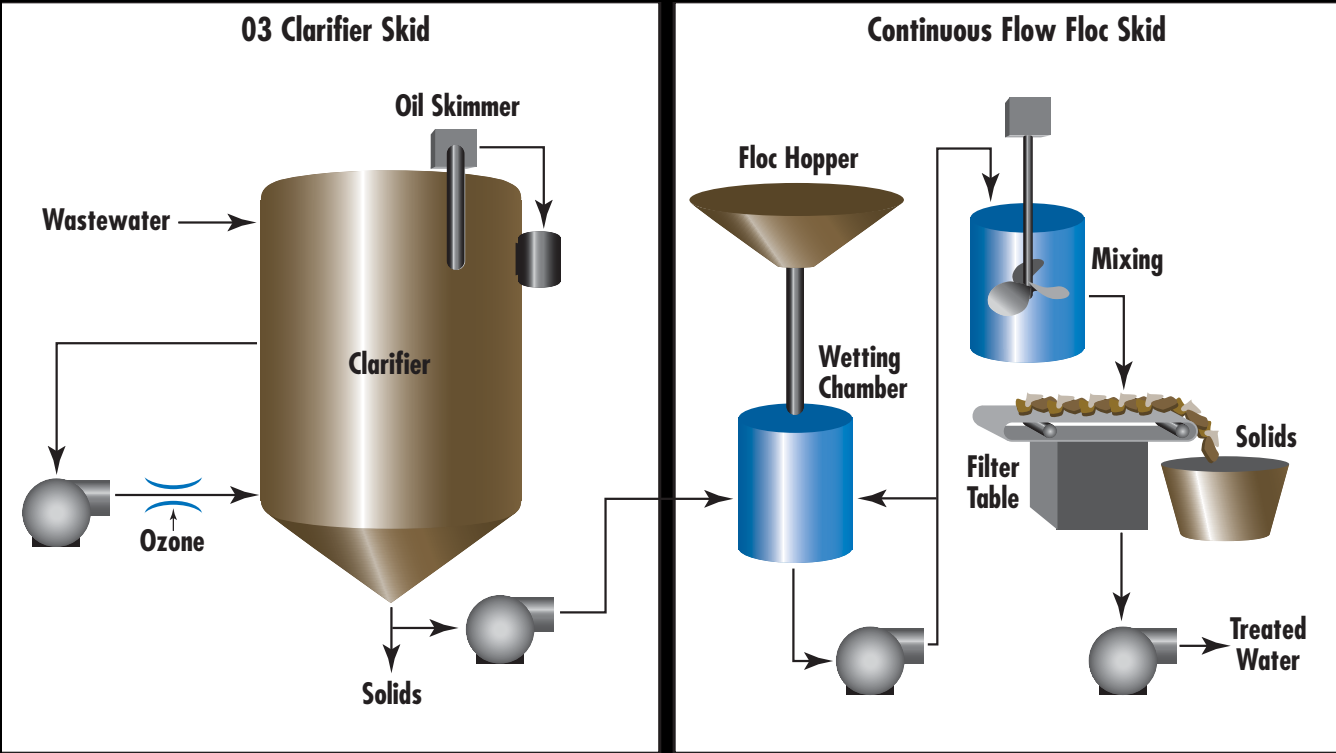
Innovative
technology with
industrial capability.

Low Maintenance Wastewater Treatment Technology

If you're looking for a more effective way to treat and recycle wastewater, comply with discharge regulations or decrease the cost of haul off disposal, Alkota Cleaning Systems can help. Our innovative wastewater treatment systems combine Alkota ingenuity and our trademark craftsmanship to deliver low maintenance wastewater treatment at just pennies per gallon.

Our systems have already successfully made a strong contribution in several industries including wash bays, contract cleaning, manufacturing, golf course maintenance, metal processing, food processing and more. If you're in need of an efficient wastewater treatment system, Alkota Cleaning Systems has a solution for you.

Typical Flow Schematic



Treatment Methods

- Stabilization
- Coagulation
- Flocculation
- Ozonation
- Coalescence
- Filtration

Continuous Flow Floc Skid

Uses flocculation as primary treatment to meet both discharge and re-use requirements in wash bay applications.

- Models
- CFS8D Continuous Flow Floc Skid 8 GPM with sewer discharge
 - CFS8S Continuous Flow Floc Skid 8 GPM with storage
 - CFS10SB Continuous Flow Floc Skid 10 GPM with Super Bag Hydration Skid (allows for the use of 2000# Flocculant Super Bag)
 - CFS20SB Continuous Flow Floc Skid 20 GPM with Super Bag Hydration Skid (allows for the use of 2000# Flocculant Super Bag)

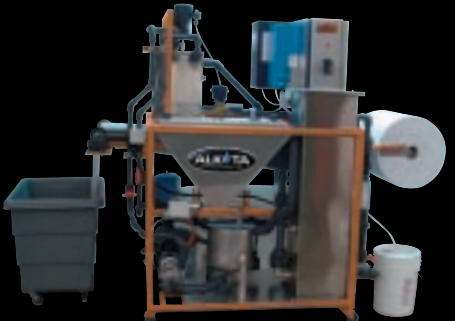


Continuous Flow Floc Skid

Ozonation Continuous Flow Floc Skid

Combines the power of both the Continuous Flow Floc Skid and the Ozonation for complete treatment in closed loop recycling and discharge applications.

- Model
- 03CFS8S Ozonation Continuous Flow Floc Skid with storage
 - 03CFS8D Ozonation Continuous Flow Floc Skid with sewer discharge



Ozonation Continuous Flow Floc Skid

Ozonation Clarifier

Maintains water quality and prevents biological growth. Combine with the continuous Flow Floc Skid for efficient wastewater recycling.

- Models
- 03C00 Ozonation Clarifier 300 gallon
 - 03C300BF Ozonation Clarifier 300 gallon with automatic back flush
 - 03C00PM Ozonation Clarifier 300 gallon with pH adjustment and metal precipitation
 - 03C500 Ozonation Clarifier 500 gallon
 - 03C500BF Ozonation Clarifier 500 gallon with automatic back flush
 - 03C500PM Ozonation Clarifier with pH adjustment and metal precipitation
 - 03C500S Ozonation Clarifier 500 gallon storage tank



Ozonation Clarifier

Ozonation Coalescer

Pre-treats water to remove oils and suspended solids for discharge or recycling using ozonation.

- Models
- 03CLS Ozonation Coalescing Skid
 - 03CLU Ozonation Coalescing Unit
 - 03CLSF Ozonation Coalescing Skid Low Flow
 - 03CLSFAD Ozonation Coalescing Skid Low Flow with alarm and discharge



Ozonation Coalescer