

PROVEN SOLUTIONS IN LIQUID-SOLID SEPARATION

KROFTA® DISSOLVED AIR FLOTATION



GLOBAL EXPERTS IN DISSOLVED AIR FLOTATION

Krofta® offers a broad range of time-tested DAF solutions. With over 50 years of experience pioneering, perfecting and installing DAF equipment at more than 3,000 plants worldwide, we're able to provide proven wastewater solutions and superior customer service so you can focus on what matters most: production.



PROVEN, EFFECTIVE DAF TECHNOLOGY

Known the world over for unparalleled liquid-solid separation solutions, Krofta DAF systems combine innovation with time-tested separation technology. Each Krofta DAF system features a unique Air Dissolving Tube (ADT), a key component that utilizes integral mixing of compressed air to more quickly dissolve air into the water. The result is a process that creates highly efficient separation and an effluent with low concentration of suspended solids.

ADVANCED TECHNOLOGICAL FEATURES

- Up to 12,000 GPM flow in a single unit
- Automated data logging and trending
- Innovative PLC technology and auto chemical flow pacing
- Krofta Air Dissolving Tube (ADT)

LIQUID-SOLID SEPARATION SOLUTIONS

Krofta offers a broad range of time-tested DAF solutions to accommodate virtually any site or treatment requirements. Whether you require a circular or rectangular design, or an integrated system that combines flocculation, flotation and filtration in a single unit, Krofta can provide a DAF system that combines highly efficient separation with a smaller footprint to help ensure optimum plant performance and overall cost savings. From helping eliminate bottlenecks to replacing cost-prohibitive disposal practices, Krofta DAF clarifiers help you meet regulatory compliance and maintain production.

KROFTA DAF SYSTEMS

KROFTA ADT

Faster air dissolution, lower retention time and reduced maintenance

KROFTA SUPRACELL

High output, low retention time and compact, circular footprint

KROFTA MULTIFLOAT

Modular, rectangular configuration with a vertical or

horizontal design

KROFTA SANDFLOAT

Flocculation, dissolved air flotation and multi-media filtration in one solution

KROFTA SPRAY FILTER

Fractionating filter, used in combination with DAF for fiber recovery

A COMPLETE, FULLY INTEGRATED APPROACH

At Krofta, we provide total plant solutions. That means we get to know your entire plant and implement integrated, custom solutions to help create sustainable operations. From simple pretreatment systems to complex effluent treatment, we provide superior equipment and strategic solutions that help you stay in compliance, meet sustainability goals and maximize production. What's more? Throughout the entire process we provide responsive, local support and service from trusted professionals who know you, your industry and your production requirements.

THE KROFTA DIFFERENCE

- Total plant assessments that identify your current production challenges.
- Customized solutions designed to optimize your plant's operations.
- One trusted source for cutting-edge equipment.
- Consulting, engineering, manufacturing and installation services from a single vendor.
- Fabricating, rebuilding and retrofitting services at our facility or onsite at your location.
- Preventative maintenance recommendations and service.
- Spare parts inventory for all DAF systems including wheels, seals, slip rings, ADT panels, and Spray Filter screens.



AIR DISSOLVING TUBE (ADT)

FLEXIBLE FEATURES FOR MAXIMUM CONTROL

Key to all Krofta DAF systems is the Krofta Air Dissolving Tube (ADT). By eliminating the need for large volumes of air and water used by typical pressure components, the ADT uses air dispersion technology and centrifugal force for more efficient saturation. In operation at thousands of installations worldwide, the Krofta ADT is a central component to all Krofta DAF solutions and can be retrofitted with any existing DAF system.



AIR DISSOLVING TUBE

- Eliminates excess air in the tube
- Reduced air and water consumption
- Low retention time of 8 to 12 seconds
- Retrofitting options for existing DAF treatment systems
- Easy changeover to meet recycling requirements for varying waste streams

FASTER AIR DISSOLUTION, LOWER RETENTION TIME

One of the essential features of the ADT is dissolving air into the water faster than other systems. The unique, proprietary design of the ADT results in lower retention time of only 8 to 12 seconds. The flow pattern additionally creates a vortex, which eliminates undissolved air, creating better overall performance.

FEATURES & BENEFITS (compared to pressure vessels)

- Reduced air consumption
- Better performance
- Lower retention time
- Less water consumption
- Generates 10-70 micron bubbles for maximum solids flotation efficiency

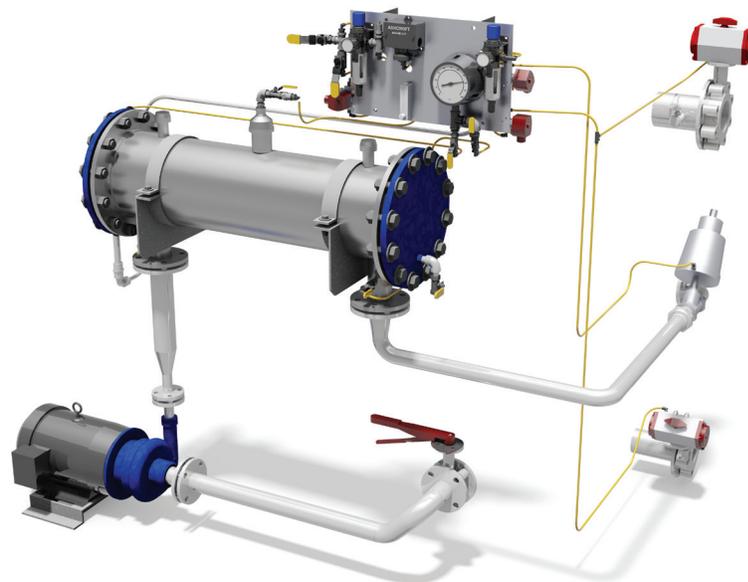


REDUCED MAINTENANCE, INCREASED PERFORMANCE

Designed for optimum performance, the ADT provides numerous mechanical features that offer lower maintenance and higher efficiency. From meeting different recycle requirements of varying waste streams to eliminating excess air in the tube, the ADT system can generate 10 – 70 micron bubbles well suited for DAF operation.

DESIGN ADVANTAGES (compared to pressure vessels)

- Lower maintenance
- Adaptable for varying waste streams
- Globe valve for pressure release
- More retrofitting options



SUPRACELL DAF

HIGH OUTPUT, LOW RETENTION IN A CIRCULAR DESIGN

Ideally suited for wastewater streams with varying characteristics, the Krofta Supracell offers higher clarification, thicker sludge consistency and low retention. The circular design helps maximize limited space at plants in a number of industries including food and beverage, pulp and paper, wineries and distilleries, and municipal wastewater.



SUPRACELL DAF

- Higher hydraulic capacity
- Compact, circular configuration
- Optimum variable wastewater processing
- Trusted dissolved air flotation technology by Krofta
- Less maintenance and low installation costs
- Lower air consumption and better performance
- Thicker sludge consistency
- Higher clarity
- 20 standard sizes offering wide capacity range

ULTIMATE DISSOLVED AIR TECHNOLOGY

Pioneered decades ago by Milos Krofta, DAF technology is one of the most effective and widely trusted liquid-solid separation solutions for wastewater treatment. The Krofta Supracell circular clarifier utilizes proprietary DAF technology to float solids to the top of the water surface where it is removed as sludge for easy disposal.

FEATURES & BENEFITS

- Shallow tank
- Krofta ADT component
- Automated operation
- Flexible controls
- Minimized sludge disposal costs
- Low maintenance
- Simple, self-cleaning components



COMPACT DESIGN MAXIMIZES SMALL SPACES

No matter how large your plant operations, space can often be a challenge when it comes to implementing new equipment. At Krofta, we take into consideration space limitations and plant restrictions. That's why the Krofta Supracell is designed with a small footprint and circular, stackable configuration, so you can make the most of your floor space while maximizing production.

DESIGN ADVANTAGES

- Stackable configuration
- Low installation costs
- Decreased maintenance
- Straightforward machine relocation
- Compact, stainless steel design



MULTIFLOAT DAF

HIGH PERFORMANCE IN A RECTANGULAR DESIGN

Engineered with a rectangular footprint, the Krofta Multifloat provides superior DAF technology while making the most of limited floor space. The completely stainless steel, rectangular units are offered in 20 standard sizes from 50 – 1,500 GPM capacities.



MULTIFLOAT DAF

- High capacity performance
- Automatic flow adjustment for accurate tank level control
- Vertical or horizontal configuration
- Varying flow capacity accommodation
- 20 standard sizes offering wide-ranging capacities
- Floated sludge and settled solids removal
- No sedimentation scraping mechanism required
- Safe flotation viewing windows

REDUCED MAINTENANCE - INCREASED PRODUCTION

Designed for a number of industrial and municipal applications, the Krofta Multifloat utilizes proven DAF technology to provide lower maintenance and reduced operating costs. The system additionally offers multiple standard designs to meet the most rigorous production requirements.

FEATURES & BENEFITS

- 50 – 1,500 GPM capacities
- Krofta ADT component
- Automated operation
- Flexible controls
- Low operating costs
- Consistent sludge removal



A SMALL FOOTPRINT WITH A LARGE OUTPUT

Limited space can pose challenges for any plant operation. With the Krofta Multifloat you get a compact design with a rectangular footprint that fits both vertical and horizontal installations. At Krofta, we understand space restrictions and provide solutions that let you maximize floor space without compromising production.

DESIGN ADVANTAGES

- Rectangular design
- Vertical and horizontal installation
- Stainless steel construction
- Fewer moving parts



SANDFLOAT DAF

THREE TECHNOLOGIES IN ONE SYSTEM

Sometimes there just isn't space for three pieces of equipment. That's why Krofta offers the Sandfloat DAF solution. Offering flocculation, flotation and filtration in one complete system, the Krofta Sandfloat provides ultimate efficiencies while capitalizing on limited plant space. This integrated solution gives plants the advantage of maintaining rigorous production demands while streamlining operations and saving on costs.



SANDFLOAT DAF

- Flocculation, flotation and filtration in one efficient system
- Continuous online backwash
- High hydraulic capacity
- Lower construction and installation costs
- Compact, stainless steel

REDUCED CONSTRUCTION COSTS INCREASED PERFORMANCE

When you combine three systems into one piece of equipment, you significantly cut your construction and installation costs. With the Krofta Sandfloat you also drastically increase your production capacity. Offering higher hydraulic performance when compared with competing filtration systems, the Krofta Sandfloat saves space, time and costs while optimizing production.

FEATURES & BENEFITS

- Combined flocculation, flotation and filtration
- Continuous backwash
- Krofta ADT component
- Flexible controls
- Small footprint
- Hydraulic capacity range from 65 – 16,000 GPM



INTEGRATED TECHNOLOGY - MULTIPLE USES

Combining flocculation, flotation and filtration into one system saves on costs and operating efficiencies and provides a unique solution for numerous wastewater applications. From potable water to industrial pre-treatment to wastewater polishing, the Krofta Sandfloat utilizes advanced technology to consolidate your plant operations and maximize total production.

DESIGN ADVANTAGES

- Highly efficient multi-media filtration
- Internal recycle of backwash minimizes waste
- High hydraulic loading rate
- Self-sufficient backwash supply
- Automated operation



DAF RENTAL PROGRAM

EMERGENCY WATER TREATMENT TO THE RESCUE

There's no getting around it. Sometimes equipment breaks down. Or sometimes you need an extra system to help meet short-term production needs. Or maybe you want to pilot a new solution before committing to a purchase agreement. Fortunately, the DAF rental program lets you to keep up with production during long-term repairs, increased production and purchasing decisions. Our rental DAF systems can help reduce downtime, save on costs and maintain operations with fast installation, in-depth training and responsive, local service and support.



DAF RENTAL PROGRAM

STEP 1 - GET STARTED

Krofta will conduct an onsite plant assessment and develop a proposal tailored to your operations.

- Define your application needs
- Analyze site conditions including water, power, space and duration of rental.
- Evaluate wastewater to determine proper chemical conditioning requirements.

STEP 2 - RECOMMEND & PROPOSE

Our experts will recommend a custom program designed to optimize performance and production.

STEP 3 - DELIVERY, INSTALLATION & STARTUP

We'll get your DAF rental system up and running from start to finish.

STEP 4 - OPERATION & SUPPORT

Krofta will provide ongoing service and support the entire time you use the DAF rental.

STEP 5 - DECOMMISSION & RETURN

Experts from Krofta will shutdown, dismantle and reclaim the rental equipment without disrupting plant operations.

AVOID SHUTDOWNS AND EXPERIENCE COST SAVINGS

Urgent situations are no reason to shut down the plant. But if you have a major equipment breakdown, it can often take up to three months to install or repair a system. Fortunately, our DAF rental program offers a quicker, more cost-effective solution, allowing you to keep the plant at full speed while staying in compliance. It's simple. In less than a month we can install a temporary system and get it up and running so you can maintain production.

TRY BEFORE YOU BUY

Investing in liquid-solid separation equipment isn't a decision that's made overnight. You want to make sure your plant gets the right solution to meet production needs and one that provides short- and long-term cost savings. Reading literature and talking with manufacturers sometimes isn't enough. That's why the Krofta DAF rental program lets you test equipment so you can make an informed, hands-on decision and ultimately feel confident in your purchase.

SOLVE TEMPORARY CHALLENGES

Whether it's facility construction or temporary increases in production, sometimes plant operations could benefit from additional equipment. But are these temporary setbacks worth investing in a new system? With the DAF rental program, there's no need to purchase new equipment or let overall production slip while undergoing infrastructure construction or meeting seasonal demands.

ECONOMICAL ADVANTAGES

- Manage operating costs
- Avoid surcharge sticker shock
- Enjoy budget certainty with minimal cost fluctuation
- Stay compliant with out-of-the-ordinary waste treatment jobs

RENTAL PROGRAM FEATURES

- Customized solutions
- Fast, expert installation
- Seamless integration
- In-depth training
- Multiple market expertise
- Ongoing service and support

SHORT-TERM DAF RENTAL BENEFITS

- Non-traditional processing
- Reduced downtime
- Expert installation
- Comprehensive training
- Responsive, local support



SPRAY FILTER FRACTIONATING SCREEN

EFFICIENCY AND PROTECTION

Fibers present in wastewater can cause clogging of equipment or increase sludge volume. In some industries, recovering fibers for reuse in the production process reduces cost of raw materials. Designed for high throughput units, the Krofta Spray Filter can handle wide variations of solid content, and is ideally suited for fiber fractionation, felt hair recovery, shower nozzle protection, and effluent polishing before or after a dissolved air flotation clarifier.

The Krofta Spray Filter produces high-quality separation in numerous operations and industrial mills including de-inking plants, board mills and fine paper and tissue mills.



FEATURES & BENEFITS

- Fiber recovery
- Equipment protection
- Sludge control
- Water reuse
- Simple operation with few moving parts and low rpm
- Self-cleaning components
- Open, non-clogging cleaning shower nozzles
- Cost-effective, dependable filter screens

SLUDGE BLANKET CONTROLLER

AUTOMATIC OPERATION OF THE KROFTA DAF

The Krofta range of DAF clarifiers can be equipped with an automatic Sludge Blanket Controller (SBC). The controller allows automatic sludge blanket monitoring and adjusting of removal rates in order to maintain optimum blanket thickness. As the scoop speed is no longer an operator variable, it never runs too fast picking up excess water nor too slow producing excessive blanket thickness. This yields an increased average sludge consistency and overall improvement in clarified water quality.



FEATURES & BENEFITS

- Optimizes sludge consistency
- Improves clarified water quality
- Reduces dewatering chemical usage
- LED+ Photocell sensor package
- Simple and economical control
- Ease of installation

pH ADJUSTMENT & EQUALIZATION

GET IT RIGHT WITH THE KROFTA SPECIALISTS

Proper pH balance and equalization system sizing can significantly improve your wastewater treatment program and help keep you in compliance, avoiding POTW surcharges. Our specialists will audit your treatment process, identify problems and optimize process efficiency with pH adjustment and equalization sizing for consistent, controlled flow.



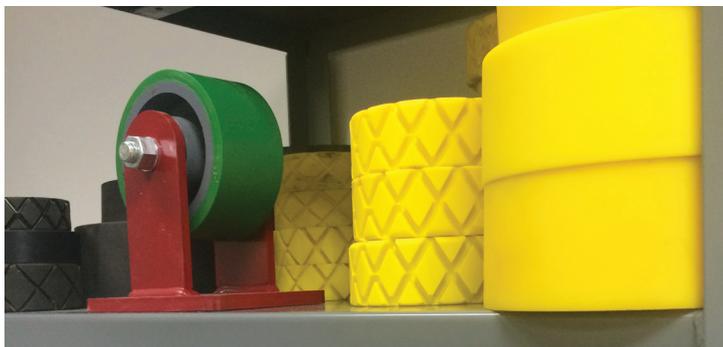
BENEFITS

- Avoid POTW surcharges
- Improve system performance
- Reduce system operating costs
- Site specific designs tailored for your particular operation
- Customized to fit your current needs as well as any expansion plans

AFTER SALES SERVICES

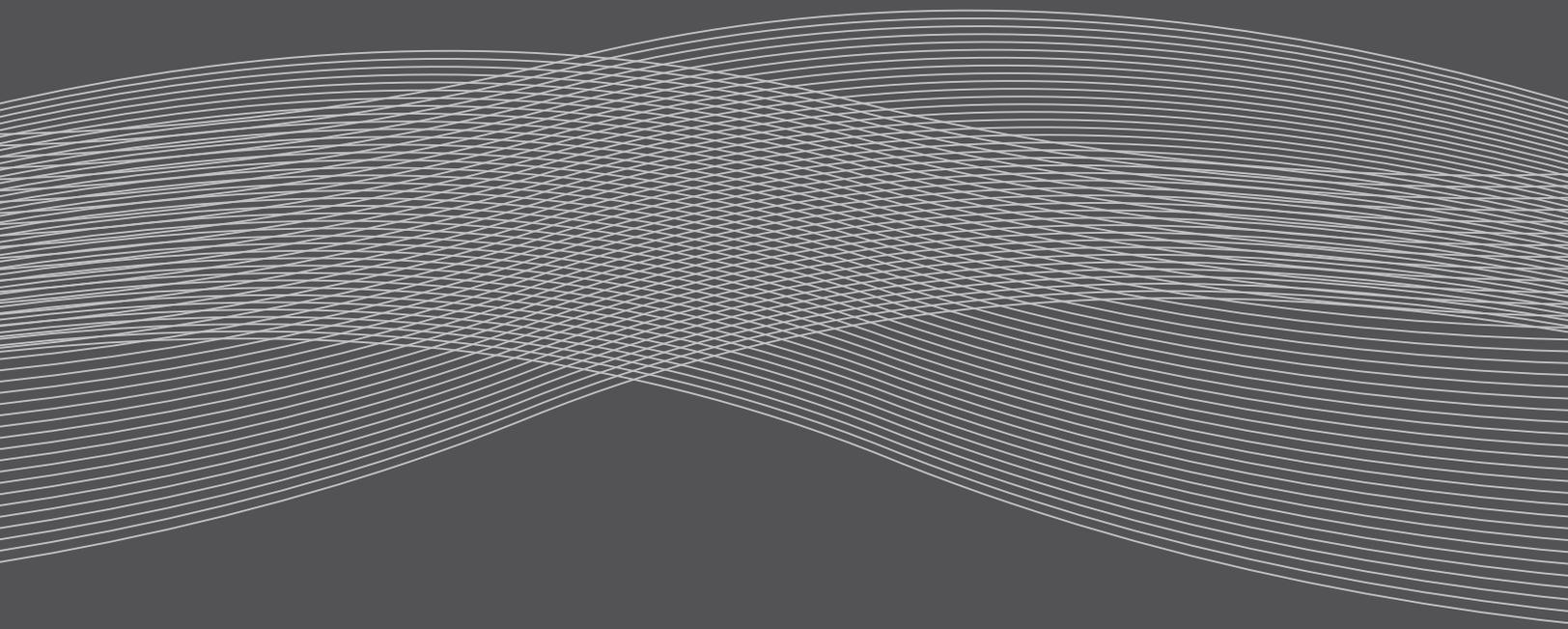
PEACE OF MIND SOLUTIONS

Krofta DAFs are renowned for trouble-free running year in, year out. Over time and while focusing on manufacturing, customers may find that the Krofta DAF needs attention. Whether it is spare parts services or training new personnel years after the sale, Krofta is ready to respond as needed. With thousands of customers and installed units, our one-stop point of service makes support simple.



FEATURES AND BENEFITS

- Eliminate down-time, extending lifetime
- Optimized performance at lowest cost
- Krofta skilled Field Support
- On-site training of operators
- Site visits and step-by-step review
- Original Krofta Spare Parts off the shelf



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