



Komline-Sanderson

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www.komline.com



Since 1946, Komline-Sanderson Engineering Corporation has provided quality liquid/solid separation and thermal processing equipment for applications in the chemical, pharmaceutical, mineral, and food processing. In addition, K-S offers equipment and technology for wastewater treatment, sludge (by-products) processing, and flue gas treatment in the industrial and municipal markets. Our experience ranges from simple one machine projects to complete systems and complex multistage processes.

K-S Paddle Dryer, Heater, Cooler

Komline-Sanderson's Paddle Dryer, Heater, Cooler is used in many applications such as indirect drying, heating, cooling, reacting, melting, tempering, solvent stripping, crystallizing, pasteurizing, calcining, roasting and cooking. The K-S Paddle Dryer, Heater, Cooler is a highly efficient, mechanically agitated, indirect heat transfer device that adds or removes heat from a process mass using heat transfer media. The heat transfer media can be steam, thermal fluid, water, or glycol. The K-S Thermal Processor features dual counter rotating agitators with intermeshing hollow wedge-shaped paddles resulting in uniform heating or cooling and optimized heat transfer. These processes are applied to pastes, cakes, granules, powders, and liquids. Benefits include:

- Residual moisture or solvent targets of less than 0.1 % can be achieved.
- High thermal efficiency is obtained using indirect drying.
- Large feed rate turn down ratio without any loss of thermal efficiency.

Sizes range from 20 to over 3,000 square feet of heated surface area in a variety of materials of construction such as steel, stainless steels, and alloys.





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Design and construction are in accordance with ASME or PED specifications. K-S offers pressure rated enclosures and designs for vacuum operation.

K-S can provide a dryer/processor only, complete systems, and instruments and controls. K-S is also able to assist with the integration into existing control systems, selecting components required to complete the system, and all other phases of the project.



Vacuum Filtration

K-S Rotary Drum (RDVF) and Horizontal Vacuum Filtration products are used for clarification, dewatering, and filter cake washing. K-S Vacuum Filters provide a continuous liquid/solid separation process that is easy to control. Filter designs are available to handle a wide range of filtration characteristics and process objectives. Open filters, filters with vapor hoods, and totally enclosed filters are offered. The K-S Filter

Fabrics department provides filter fabrics for Komline-Sanderson's as well as competitor's filters, in addition to providing technical support in filter fabric selection and optimization. Popular designs used in the process industries include:

- K-S Rotary Drum Vacuum Filter (RDVF) with scraper discharge is used for fast filtering materials.
- Flexibelt® Belt Discharge RDVF is used for more difficult to filter materials that form thin cakes. Filter media washing on each revolution is used to maintain production rates.
- Precoat discharge RDVF filters use a bed of filter aid (diatomaceous earth or perlite) as the filtration media for the clarification of liquids. This filter can remove fine and gelatinous solids from a suspension. The retained solids and a very thin layer of filter aid are removed on each revolution.
- Horizontal vacuum filter is top fed allowing it to handle fast settling slurries. This design also allows for multiple cake washing steps. Counter current cake washing can be used to reduce washing liquid use.



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Wastewater treatment and sludge processing

K-S Dissolved Air Flotation clarifiers are used for the removal of suspended solids to meet plant discharge requirements, recover material, and water for reuse. K-S thickening, dewatering and drying technologies provide effective solutions to reducing the disposal cost of sludges. K-S Belt Filter Presses have been used in industrial wastewater treatment plants for 40 years. The K-S Kompres[®] Belt Filter press design is optimized for the dewatering of difficult secondary (WAS) sludges. The K-S Paddle Dryer can be used to greatly reduce sludge cake disposal cost and to convert sludge into a fuel for beneficial use.



Laboratories and Pilot Test Facilities

Komline-Sanderson's Technical Center is located in Peapack, New Jersey. The facility is equipped to run both bench and pilot scale tests for liquid/solids separation and thermal processing applications. K-S also offers rental equipment for field testing or small production runs. Testing is used to obtain process design information for scale up to commercial size machines and develop optimized processes.

For additional information or inquires please, contact Komline-Sanderson or visit our website at www.Komline.com.