IRRIGATION FILTRATION

PATENTED PROTECTION FROM SAND & ABRASIVE WEAR
Extend the life of your pivots and pumps

Good water quality is important for irrigation systems, and ensures maximum efficiency and longevity of all components.

Zimmatic filtration products are the most environmentally efficient method for removing solids from liquids. Sand Separators and Specialty Filters:

- Extend pivot, sprinkler, end gun and booster pump life
- Help maximize irrigation uniformity and performance
- Reduce other waste, including solids being filtered

For more than 40 years, LAKOS, a Lindsay company, has provided patented separators and filtration solutions to maximize water flow, reduce waste, and prevent premature equipment wear.

Our commitment to continuous innovation has resulted in a range of products that continue to evolve to meet the world’s ever-demanding filtration needs.
Patented technology
Sand creates serious challenges for irrigation systems once plugged or worn nozzles can dramatically affect performance. Zimmatic’s Sand Separators are engineered to remove settleable sand, grit and scale from pumped water – extending nozzle, agitator and pump and booster pump life.

The patented Sand Separators are engineered to remove 98% of all sand-like particles down to 230 mesh (94 microns) with 2.4 pounds per gallon and larger in a single pass. Steel™/SSS™ autoclaves centrifugal action for optimized performance.

Balanced Venturi™ enhances aseptic flow. A reliable internal backwash system defends against impeller clogging, lost production, and replacement parts. This keeps the pump operating at maximum efficiency while drastically reducing sand build-up.

Variable flow systems
For variable flow pumping systems, two or more separators can be manifolded in series. The Sand Separators will protect the pump inlet before it can damage impellers, bearings, and other pump components. This keep the pump operating at maximum efficiency while drastically reducing sand build-up.

Maintenance-free design
Made of durable carbon steel, SSDs are designed without moving parts to minimize maintenance and downtime.

Filtering media
Made of durable carbon steel, PSS's are designed without moving parts to minimize maintenance and downtime.

How it works
Sand is centrifugally captured by tangential Swirlex slots from fluid via differential pressure (DP) elements to clean and replace. Pressure gauges with proper flow range through solids separation, purging cycle can be automated, and minimal water loss.

For purge solids discharge, the flapper valve is slowly rotated to the open position.

A rotating spray bar and fixed position spray bar propells sand against the screens, permitting water to flow freely in water volume.

PSS during installation

Pressure loss
0.375 inches (9.5 mm)

Max. particle size
.375 inches (9.5 mm)

Flow range
210-2050 U.S. gpm (48 to 465 m³/hr)

Max. working pressure
150 psi (10.3 bar) at 180° F (82° C)

Energy savings
Up to 10% energy savings over conventional systems.

Wide range of applications
Rivers, effluent ponds, canals, lakes, ponds, irrigation ditches, re-use pits, streams, tanks, canals, and more.

Key features & benefits
• Protect pumps and save money by maintaining pump efficiency.
• No manual cleaning or routine shutdowns.
• Protect the surrounding environment from pump intakes.
• Construction of double reinforced fiberglass and stainless steel.
The Lindsay Advantage

Lindsay offers proven systems and products that are built to be strong, long-lasting, durable and easy to use for growers who need highly efficient irrigation solutions. These systems can be enhanced with a family of integrated plug-and-play add-ons.

Growers around the world rely on Lindsay’s innovative technology support by a network of knowledgeable dealers to add value, reduce risk and take full advantage of every growing season.

To learn how Zimmatic filtration products can make your operation more profitable, visit www.zimmatic.com or contact your local Zimmatic® by Lindsay dealer.

Lean, Clean and Green. Lindsay Corporation is committed to developing environmental awareness and implementing sustainable practices to reduce the use of and protect energy, water, and all other resources.

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THE LINDSAY ADVANTAGE
DURABLE • RUGGED • EASY TO USE • INTEGRATED TECHNOLOGIES • BROADEST LINE OF SOLUTIONS

2222 N. 111th St., Omaha, NE 68164 • 1-800-829-5300 • 1-402-829-6800 • www.lindsay.com

Lindsay USA: 2222 N. 111th St., Omaha, NE 68164
Lindsay Africa: 6 Talana Close, Sacks Circle, Bellville South, 7530, South Africa
Lindsay Brazil: Rodovia Adhemar Pereira de Barros - SP 340 KM 153, 5 - Caixa Postal 1001 CEP 13804-830, Mogi-Mirim, Sao Paulo, Brazil
Lindsay Europe: L’Épingle 72300 La Chapelle d’Aligné, France
Lindsay International BV: Weena 278, Tower B, 7th floor, 3012 NJ Rotterdam
Russian Branch of Lindsay International BV: Russia, 350063 Krasnodar City, ul.Sovetskaya, 30, office 1202
Lindsay Sulama (Turkey): Karamehmet Mahallesi, Avrupa Serbest Bölgesi, 4.Cadde No3 Ergene-Tekirdag/TURKEY
Lindsay (Tianjin) Industry Co. Ltd. Beijing Sales Branch: Room 501, No. 55 Nongzhanguan North road Chaoyang District Beijing, 100125 China
Lindsay Australia Warehouse: Lindsay International (ANZ) Pty Ltd 19 Spencer Street Toowoomba QLD 4350
Lindsay NZ: 581 Taonui Road Feilding

Li-SCP BRO ENG-2188 XXXX 1117