

ROTARY FAN PRESS

**Continuous Low Speed, Long Life,
Pressure Differential Liquid/Solid Separation**

**Higher Standards
in Dewatering
Performance**



**MADE IN
USA**

**PRIME**TM
Dewatering Performance – Simplified

269-673-9559
www.psirotary.com

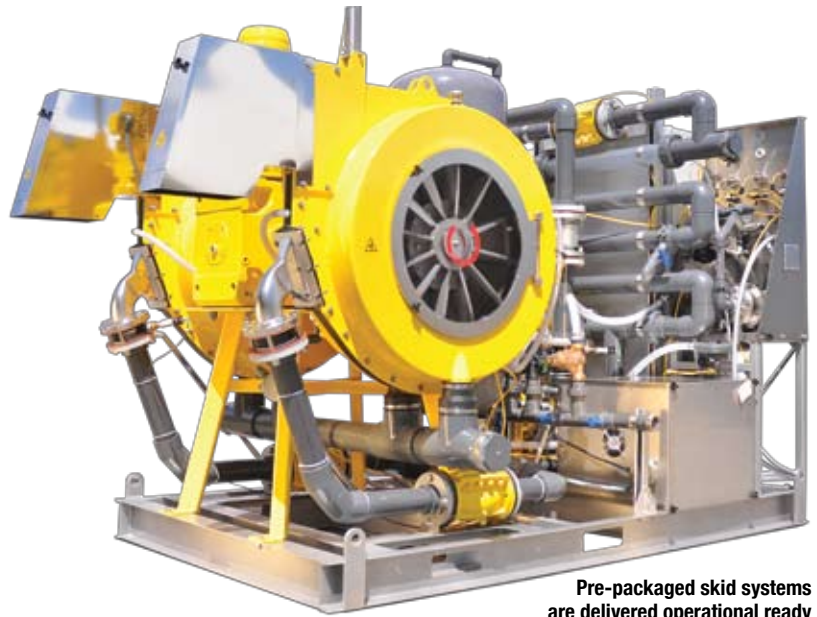
PRIME ROTARY FAN PRESS®

SIMPLEST TECHNOLOGY - Higher Standards for Dewatering Performance

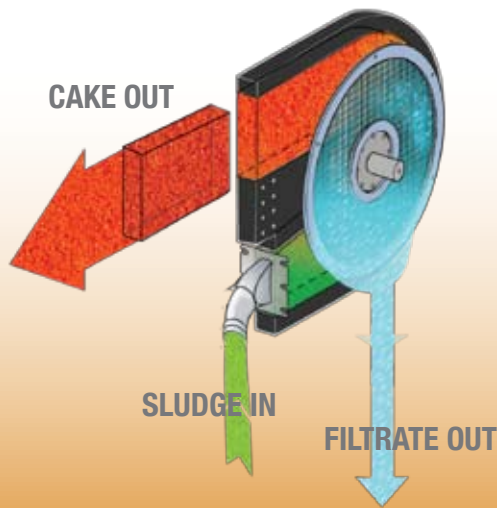
The conditioned sludge is fed into the enclosed slow moving (<1 rpm) dewatering channel between two parallel stainless steel wedge wire filter plates. The feed sludge is subject to a pressure drop where the liquids pass through the filter openings and the solids advance within the channel.

The sludge continues to dewater as the feed pump supplies more sludge, slowly moving the solids through the channels toward the outlet of the press forming a cake.

Dry cake is formed against the restrictor gate as the solids forming the cake fill the space between the slow moving parallel filter plates. The frictional forces of the continuously rotating filters advances the cake through the restrictor gate.



Pre-packaged skid systems
are delivered operational ready



SIZE MATTERS - When You Need Dewatering Within a Small Foot Print

The compact, slow moving, quiet design of the Prime Rotary Fan Press® integrates easily into any facility, requiring no structural building modifications. Continuous dewatering within enclosed vertical dewatering channels makes it the dewatering system with the highest through-put per area of floor space required.



MAXIMUM CAKE SOLIDS



EXCELLENT FILTRATE

Dewatering Performance Simplified

BETTER LOWS - Lowest Life Cycle Cost for Financial Sustainability

Many integral considerations go into choosing the right equipment for your dewatering application. The Prime Rotary Fan Press® was designed and developed to meet or exceed the following customer requirements: purchase value, minimal building requirements, high cake solids, solids capture rate, low polymer usage, low power requirement, continuous operation, semi-automatic operation, enclosed dewatering, slow moving, minimal wear parts, no bearings in contact with the sludge, minimum maintenance and superior customer service. Prime Solution, Inc. has been working for over ten years to exceed these goals with a combined dewatering experience of over 30 years.



**Built-in expandability up to 4 channels
Hydraulic throughput capacities up to 260 gpm**



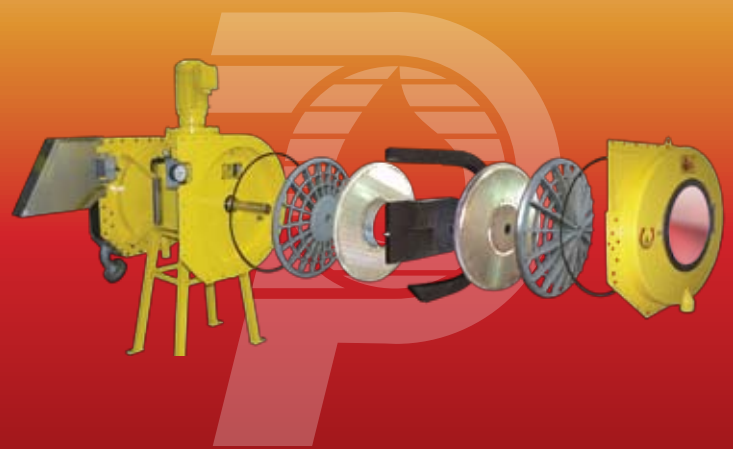
**Trailer & Container systems
tailored to your requirements**

EASY AND SAFE - Fully Enclosed and Automated Operations

Automated and semi-automated operations make the Rotary Fan Press a user friendly option requiring minimal supervision. Few mechanical parts combined with the system's slow rotational speed significantly reduces power requirements, noise, vibration and system maintenance. It's fully enclosed design reduces odor, building and operation exposure for a cleaner working environment.



LOW COST INSTALLATION



SIMPLE ROBUST CONSTRUCTION



CITY OF LANCASTER, SC WWTP

“My facility has a small staff and I needed a dewatering option that didn’t require a full-time operator. The Prime Rotary Fan Press® runs 24 hours without supervision.”

- Superintendent Mac McDonald

PRIME — The Higher Standard in Dewatering

MUNICIPAL AND INDUSTRIAL WASTEWATER APPLICATIONS

Prime Solution solves the dewatering requirements of municipalities and industries that face the combined pressures of restricted budgets, forced government regulations, limited space, escalating energy costs and increased solids handling requirements.

LAB SCREENING AND ON-SITE DEMONSTRATION

Water and wastewater dewatering is part of the total treatment process. Prime Solution understands this better than anyone else matching the right equipment to the application and maximizing the dewatering results.
STEP 1 - Free lab sample screening.
STEP 2 - On-site demonstration where you can experience, first hand, the most cost-effective solution for you application.

CUSTOMER SERVICE AND SUPPORT

Customers rank Prime #1 in customer service. We don’t leave you on your own after you’ve purchased our dewatering equipment. For Prime Solution, customer service is just as important as a sale. Please contact us if you would like to learn more about Prime or to speak to a salesperson.

PRIME SOLUTION, INC. • 2861 127TH AVE., ALLEGAN MI 49010 • PH: 1-269-673-9559 • FX: 1-269-673-8241



The Prime Rotary Fan Press® is covered by U.S. Pat. No. 7,895,943, AU Pat. No. 2005274026, MX Patentado 280424 and KR Pat. No. 10-0795159. Other patents are pending.

Represented by:

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