

DEWATERING PERFORMANCE SIMPLIFIED

ROTARY FAN PRESS[®] *patented*

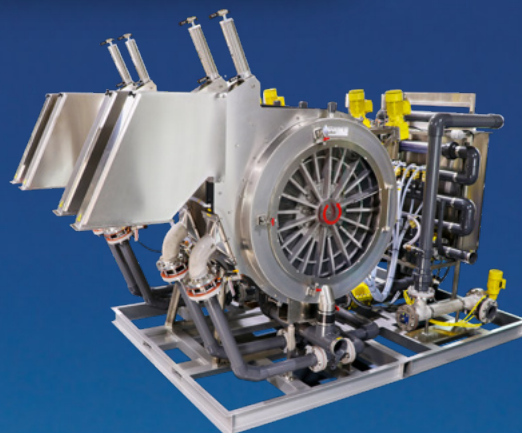
High-performance, cost-effective dewatering.

The Prime Rotary Fan Press[®] is an advanced, low-shear dewatering system engineered for simplicity, efficiency, and long-term value. Its patented internal mixing element optimizes polymer contact, producing drier cake solids and cleaner filtrate while maintaining gentle handling of biosolids. Proprietary screen technology enables higher throughput capacity, providing greater process flexibility and measurable space savings per square foot.

From an operational standpoint, the system reduces power and wash water consumption, directly lowering utility costs and supporting sustainability goals. With fewer wear parts than traditional dewatering equipment, maintenance downtime and aftermarket expenses are significantly reduced.

Operators appreciate the press for its reliability and unattended operation, which frees staff to focus on other critical plant functions. At the end of each cycle, the unit can automatically shut down, perform a complete cleanout, and reset itself for the next day of processing – ensuring consistent performance with minimal oversight.

The result is a robust, cost-effective dewatering solution that balances technical performance with real-world operational savings.



ENGINEERED TO PERFORM. AMERICAN BUILT TO LAST.

- **Proven, Reliable Technology**
Trusted performance you can count on
- **High Cake Solids & Capture Rates**
Maximize separation efficiency
- **Low Maintenance & Operating Costs**
Minimal upkeep, maximum savings
- **Ultra-Slow Operation (<2 RPM)**
Gentle handling, reduced wear
- **Seamless Automation**
Easily integrates into existing systems
- **Retrofit Ready**
Upgrade without facility expansion
- **Expandable Throughput**
Scale as your process demands
- **Exceptional ROI**
High performance drives long-term value

“The RFP has proven to be one of the best decisions I have made while here. It has saved countless hours and dollars, and has proven itself to be an integral part of the system. We are short-handed and this has freed up time for us to pursue other issues. When it is running it is quiet. It does not use a lot of water or power.”

– Dale Vanderhoof, Superintendent, Larned Water Recycling Center, Larned, KS

To learn more about the Rotary Fan Press[®] or to schedule a demo, call (269) 694-6666.

SIZES & CAPABILITIES

Model	Channels	Screen Dia. (in)	Filtration Area (ft ²)	Combined Power (hp)	Feed Inlet (in)	Filtrate Outlet (in)	Water Inlet (in)	Hydraulic Flow (gpm)	Max. Solids Loading (d.s. lbs/hr)	Approx. Dims. L x W x H (ft)	Approx. Weight (lbs)
RFP2.0-24S	1	24	4.50	1.75	2	3	1.5	5 - 15	225	5.5 x 4.5 x 5	900
RFP2.0-24D	2	24	9.00	2.00	2	3	1.5	10 - 30	450	5.5 x 4.5 x 5	1,400
RFP2.0-36S	1	36	11.00	3.25	3	4	1.5	12 - 36	550	7.5 x 5 x 7	3,000
RFP2.0-36D	2	36	22.00	3.50	3	4	1.5	24 - 72	1,100	7.5 x 5 x 7	4,000
RFP2.0-48S	1	48	20.00	5.25	3	4	1.5	22 - 65	1,000	9 x 5.5 x 8	4,400
RFP2.0-48D	2	48	40.00	5.50	3	4	1.5	44 - 130	2,000	9 x 6 x 8	6,300
RFP2.0-48DE	2	48	40.00	8.00	4	4	1.5	44 - 130	2,000	10 x 6 x 8.5	7,800
RFP2.0-48T	3	48	60.00	8.25	4	4	1.5	66 - 195	3,000	10 x 6 x 8.5	9,200
RFP2.0-48Q	4	48	80.00	8.50	4	4	1.5	88 - 260	4,000	10 x 9 x 8.5	10,950
RFP2.0-48P	5	48	100.00	16.25	6	4	1.5	110 - 325	5,000	10 x 10 x 8.5	13,200
RFP2.0-48HX	6	48	120.00	16.50	6	4	1.5	132 - 390	6,000	10 x 11.5 x 8.5	14,700

SPECS

- 24, 36, and 48 inch diameter
- Sludge Cake Conveyors
- One to Six Dewatering Channels
- Emulsion Polymer Systems
- Change to Skid Mounted, Press Only, Mobile and Container Systems

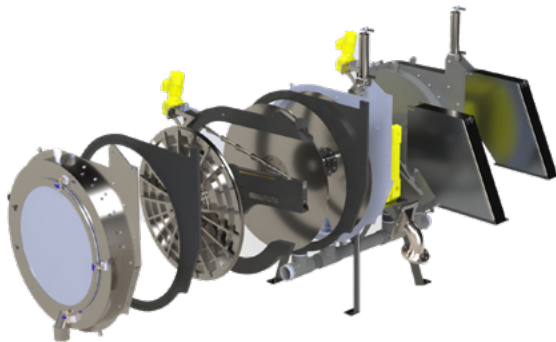
APPLICATIONS

- Municipalities
- Food and Beverage
- Industrial
- Agricultural

Max solids loading listed above is based on primary sludge at 3% feed solids. Type and variation of sludge/process, feed and volatile solids concentration, and polymer selection will impact capacity and results.

TYPICAL RESULTS

Typical Application	Avg. Feed (% TS)	Avg. Polymer (lbs/d.t.)	Avg. Capture (% TSS)	Avg. Cake (% TS)
Primary 100%	2 - 6	4-8	95 - 98	28 - 38
Anaerobic	1 - 4	8-12	95 - 98	18 - 26
Aerobic	1 - 3	10-14	95 - 98	15 - 22
Primary/Sec. Mix	1 - 4	8-10	95 - 98	20 - 32
WAS	1 - 3	9-15	92 - 98	15 - 22
SBR	0.75 - 2	9-15	92 - 98	15 - 20
Alum Treated WAS	1 - 3	8-14	92 - 96	12 - 16
PAC Treated WAS	1 - 3	8-14	92 - 96	12 - 16
Lime Sludge	5 - 9	8-14	95 - 98	28 - 45
Septage	3 - 7	7-10	95 - 98	28 - 38
Grease Trap (lime treated)	1 - 5	9-15	92 - 96	28 - 40
DAF	3 - 6	8-14	92 - 96	20 - 28
Coal Refuse	3 - 5	4-8	95 - 98	28 - 45
Concrete Reclaim	5 - 15	7-10	95 - 98	28 - 45
Swine	1 - 4	7-10	94 - 97	18 - 24



"After running dewatering equipment for the past 14 years (belt press, gravity belt, screw press, centrifuge, etc.), I recognized Prime Solution's RFP is a unique piece of process control equipment for solids dewatering. I have recommended the equipment to other plant managers because of the quality of solids it creates, the compact clean footprint and the easy operations. It's like nothing else in the dewatering industry."

– Jacob Hansen, Plant Superintendent, Eagle Mountain, UT