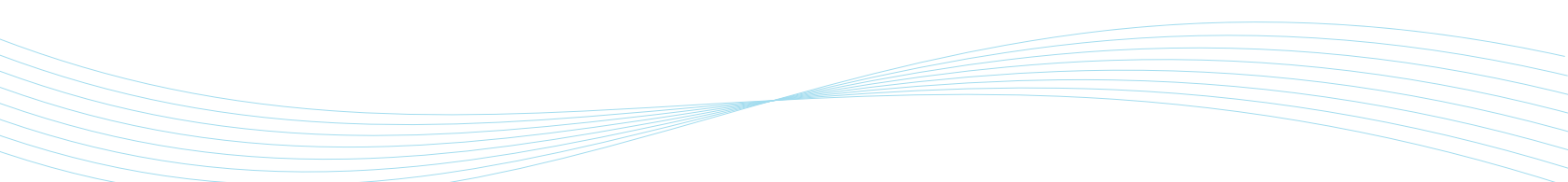
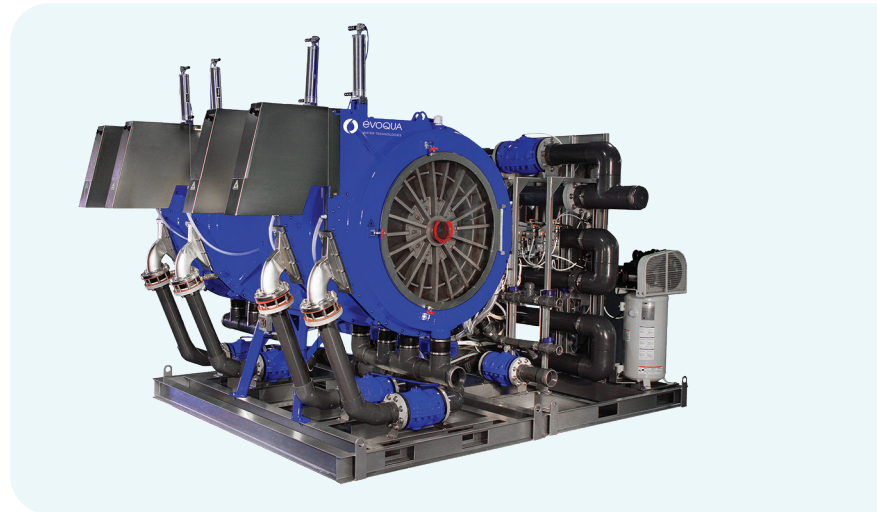




evoqua
WATER TECHNOLOGIES

EVOQUA
ROTARY PRESS

**A SIMPLE DESIGN
THAT CONTINUOUSLY
DELIVERS SOLID
RESULTS**



Technology

The Evoqua Rotary Press simply employs pressure and friction for cost-effective dewatering. The system operates continuously at a speed of < 1 rpm to develop a pressure differential and frictional resistance to effectively dewater various types of sludges. Design simplicity coupled with a low operational speed results in a prolonged service life, minimal maintenance and energy consumption. This low speed also results in low energy use while producing high cake solids and quality filtrate. This Evoqua technology can be efficiently integrated into new or existing wastewater plants to consistently deliver high cake solids and quality filtrate. System includes a PLC control package, polymer feed and mixing system, rotary lobe pump, feed and discharge valves and piping. Evoqua Water Technologies also offers platform systems and sludge management, including conveyors and dumpsters.

OPERATION REQUIREMENTS

After start up, the rotary press can run continuously, 24/7 with little to no supervision required. If a fault is detected, a notification can be sent remotely to the operator and the machine will automatically shut down and clean in place. Automatic shut down and wash cycles can be scheduled as desired or to meet facility throughput requirements.

Applications

- Municipalities
- Industrial
- Agriculture
- Petrochemical
- Food and Beverage
- Pulp and Paper

System Benefits

- Space saving, small footprint
- Low maintenance requirements
- Minimal part replacements necessary
- Low operational cost, energy and water usage
- Little manpower required
- Simple operation
- Continuous process
- High cake solids capture
- Low odor, completely enclosed
- Plug and play/easy integration

PUT YOUR DEWATERING FILTRATE TO THE TEST!

Looking to reduce operating and maintenance costs, improve efficiencies and create an effective dewatering process? Put your dewatering filtrate to the test! Contact your Evoqua sales rep or email dewatering@evoqua.com to receive a complimentary filtrate analysis along with a review of your filtrate parameters with one of our dewatering experts.

12,000

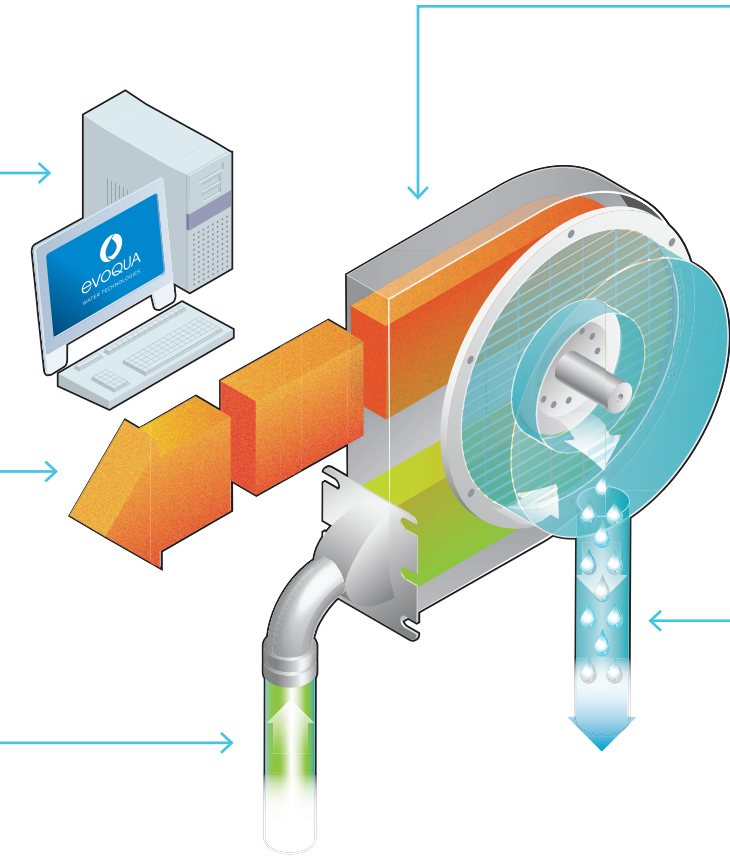
With over 12,000 slurries being analyzed by our water experts to date, we have gathered various data points around how to attain the perfect filtrate in every market and application. In doing so we've helped power plants, municipal wastewater plants, oil & gas facilities, food & beverage plants and many more meet their goals and objectives.

System Process

Automated shutdown and wash cycles can be scheduled when needed.

The slow rotation of the press continues to form this cake plug until enough cake has built up to push past the restrictor gate where it is discharged from the press.

Conditioned sludge is continuously fed into the space between the two filter screens.



The solids advance to the discharge end of the press where a restrictor gate arm slows the solids, allowing a "cake" plug to form.

The solids are held by the filter screens while additional moisture is continuously pressed out as the friction and pressure build.

Pressure differential increases within the press and the liquid takes the path of least resistance through the filter screens, where the filtrate is expelled.

Customization

Multiple sizes available with expandability of up to four dewatering channels per press. This allows for the ability to treat a range of flow rates and easily adapt to future changes in throughput.

| Channel Number | Screen Diameter (cm/in) | Filtration Area (m ² /in ²) | Hydraulic Flow (gpm) |
|----------------|-------------------------|--|----------------------|
| 1 | 61/24 | 0.39/4.2 | 5-15 |
| 2 | 61/24 | 0.78/8.4 | 10-30 |
| 1 | 91.4/36 | 0.88/9.49 | 20-35 |
| 2 | 91.4/36 | 1.76/18.98 | 40-70 |
| 3 | 91.4/36 | 2.64/28.47 | 60-105 |
| 4 | 91.4/36 | 3.53/37.96 | 80-140 |
| 1 | 121.9/48 | 1.67/17.94 | 35-65 |
| 2 | 121.9/48 | 3.33/35.88 | 70-130 |
| 3 | 121.9/48 | 5.0/53.82 | 105-195 |
| 4 | 121.9/48 | 6.67/71.76 | 140-260 |

TRANSFORMING
WATER
— **ENRICHING** —
LIFE



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