

EVO Series[™] - the evolution of process pumps

The Application/Abstract

- ▶ ARO[®], a brand of Ingersoll Rand and a leading global provider of diaphragm pump solutions recently collaborated with a supplier of concrete washout waste containment, disposal and recycling services. Together they streamlined the company's filter press processes. As a result, the customer, who works with some of the largest construction builders across the US significantly increased the capacity of their off-site concrete washout facility in Seattle, Washington.



APPLICATION OVERVIEW

EVO SERIES™

THE EVOLUTION IN PROCESS PUMPS

An industrial filter press is a tool used in separation processes to separate solids and liquids. The machine stacks multiple filter elements which allows the filter to be easily opened and screened solids removed. This allows easy cleaning or replacement of the filter media. This methodology is recommended according to the volume of liquid or solids separated.

The filter press is one of the most important systems where companies have applied efforts to increase productivity. This system is a combination of subsystems where pumps represent a vital role in the process.

Existing challenges facing this application may include high labor requirements, high air consumption, and intermittent duty cycles.

EVO Series™ technology combines the benefits of a diaphragm pump with unique characteristics making EVO Series™ the best recommendation for filter press.

The faster the filter press process, the less money is spent: *Time is money!*

The EVO Series™ Process Pump benefits are tied to a fast and effective process:

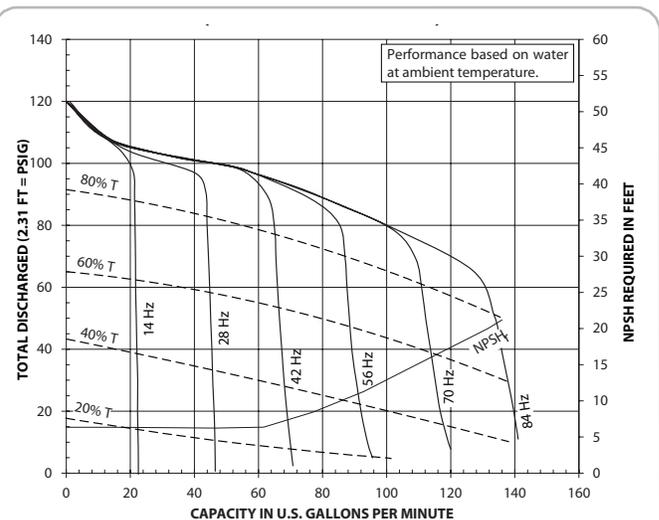
- **100% electrically operated** with zero compressed air needed. This eliminates costly compressed air.



- **Provides constant torque and flow** with variable speed and constant torque (please see the performance curve graphic below). This promotes ways to keep high pressure and high flow range. As a result, EVO Series™ can reduce the capacity and speed versus other pumps.



...continued on page 3...



◀ Image credit: Master Pump Brazil - an authorized ARO® distributor

...continued from page 2

- **True Deadhead Capability** A closed loop control system allows the pump to come to a complete and immediate stop, while holding and maintaining the line pressure.
- **Leak Free** with **easy connect plug** and a standard **secondary containments** and leak detection system.
- **Heavy-duty use** includes the ability to handle various levels of solids.
- **Low pulsation** provided by the unique triple chamber design.
- **Remote control capability.**

* optional communication cards are available for PLC connections for remote control.

EVO SERIES™

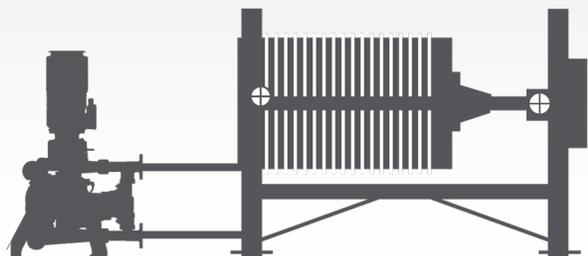
THE EVOLUTION IN PROCESS PUMPS

EVO Series™ technology combines the benefits of a diaphragm pump plus unique characteristics that makes EVO the best recommendation for filter press compared to other positive displacement pumps.



Unique Solution for Continuous Process

Filter presses are mainly used for the separation of water and solids such as the metal processing industry where slurries can be greater than 50% solids. This allows the end users to reclaim water and only dispose of the dried solids. Maintaining a continuous pressure is key to this process for which the EVO Series™ is designed.



Explore New Frontiers with an EVO Series™ Process Pump

- Wine, distillery and brewery industries
- Waste water treatment sludge separation
- Spent grain



Industrial filter press for wastewater treatment and chemical treatment plant.

Contact an authorized ARO® distributor for a product demonstration and view the variety of material configurations available to meet your compatibility requirements.

ARO®

www.arozone.com/electric-diaphragm-pumps

youtube.com/arpumps

arotechsupport@irco.com

(800) 495-0276



About Ingersoll Rand Inc.

Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity and efficiency. For more information, visit www.IRco.com.

We are committed to using environmentally conscious print practices

©2023 Ingersoll Rand
IRITS-0423-010 EN