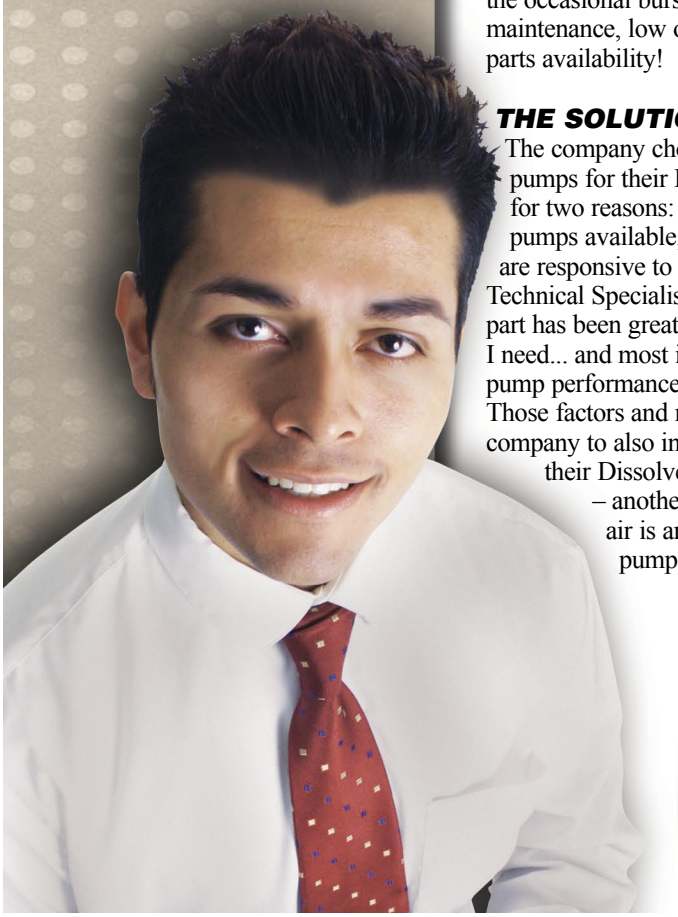
Process, Waste-Water & Sludge Processing

Application Guide

"For me, it's the LaBour pump's high performance and low cost over the long haul."

Corporate Technical Specialist

Pump Expert



THE COMPANY

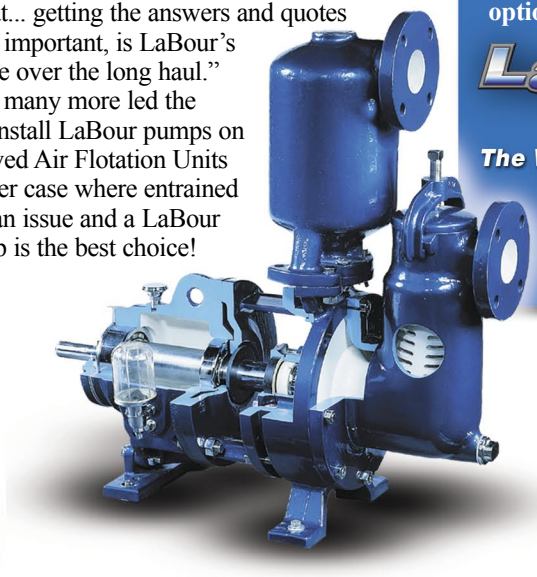
In many industrial manufacturing operations, there's a need at some point in the process to separate liquids from solids. A well-known east-coast company designs and builds equipment for filtering, wastewater clarification, drying, heating, cooling, and sludge dewatering, for manufacturing and municipal applications. Their industry-leading technology is evident in their Rotary Drum Vacuum Filters, Belt Filter Presses, Dissolved Air Flotation Units, and Horizontal Filter Press products. The company's equipment can be found in diverse industries, like chemical processing, pulp and paper, mineral processing, pharmaceutical, food processing and many more.

THE PROBLEM

One of the company's widely used solutions for separating liquids from solids, are their Rotary Drum Vacuum Filter machines. These units are a continuous filter, where solids are separated from a liquid by means of a filter cloth drum rotated through the slurry. A vacuum is applied to the inner drum surface causing the solids to accumulate as a "cake" or layer through which the liquid is drawn. Liquid is continuously removed as the drum rotates. and accumulated cake is scraped off and discharged. The liquid settles to a separator tank where it's pumped off for further treatment, reuse or discharge. It's at this liquid transfer point, where the company needed a reliable pump that could also handle the occasional burst of entrained air. Not to mention ease of maintenance, low over-all ownership cost, and fast, no-hassle parts availability!

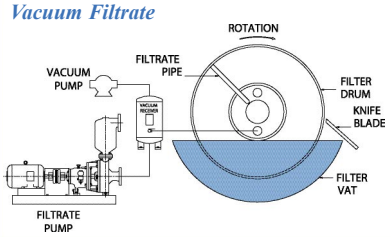
THE SOLUTION

The company chose LaBour Self-Priming Centrifugal pumps for their Rotary Drum Vacuum Filter machines for two reasons: LaBour pumps are the longest lasting pumps available, and LaBour sales and engineering staff are responsive to the firm's needs. As the company's, Technical Specialist put it, "Responsiveness on LaBour's part has been great... getting the answers and quotes I need... and most important, is LaBour's pump performance over the long haul." Those factors and many more led the company to also install LaBour pumps on their Dissolved Air Flotation Units – another case where entrained air is an issue and a LaBour pump is the best choice!



Typical Application

Vacuum Filtrate



The LaBour LHLA/LPLA Back Pull-Out Self-Priming Pump Benefits

- The industry's lowest cost of ownership over the life cycle of the pump
- **Engineered to last longer and require less maintenance**
- **Physically superior to competing product offerings - you can see the difference**
- **Designed to run cooler allowing seals and bearings to last longer**
- **Greater lift capacity than any other pump**
- **Worldwide technical support and quick-response service**
- **Shortest priming cycle time**
- **Over 80 years experience in the chemical processing industry**
- **The pump industry's most impressive array of warranty options**

LaBour Taber

The World's Longest Lasting Pumps... Bar None!

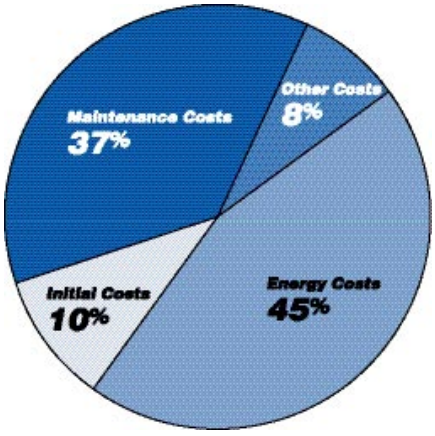
www.labourtaber.com
317-924-7384

When pump failure is not an option ...trust the LaBour Self-Priming Pump.

HOW IT ALL COMES TOGETHER

The industries and municipalities who use these Rotary Drum Vacuum Filters, run them continuously, putting thousands of hours on them year after year. The LaBour Self-Priming pumps used on the equipment, not only keep up with the heavy pumping demand, they do it without complaint. The company's Technical Specialists have found that they don't get any complaints from their customers about the LaBour Pumps. The pumps just keep running with downtime not even an issue. Routine inspections and maintenance are performed on the pumps when it's scheduled for the whole machine. "Some of our units have been out in the field for 20 or 30 years and there have been no problems," as one specialist points out. The company's customers need equipment that lasts and the last thing they need is a component failure. That's why the company includes LaBour Self-Priming pumps on their Rotary Drum Vacuum Filters. And even though they don't need to invest in a large inventory of replacement parts for the LaBour pumps, parts are readily available nationwide. Unlike some manufacturers, who systematically obsolete their equipment by discontinuing parts support, reliable LaBour replacements are there if you need them. Even for older LaBour models. Plus, LaBour built the Self-Priming Centrifugal Pumps like they do all their pumps... with reliability in mind. From the oil lubricated bearings, extended life mechanical seals, the "best in the industry" heavy duty shaft to the pump casing construction materials, LaBour pumps prove to be not only rugged, reliable and dependable, but easy for the company's customers to maintain. LaBour's unique design and high quality made the up-front cost a good investment for the company, an investment which will pay back in an overall lower cost of ownership and operation through the years. When pump failure is not an option, this company trusts LaBour.

EXPERTS KNOW THERE'S MORE TO BUYING A PUMP THAN THE INITIAL COST OF THE PUMP.



Why Should Organizations Care About Life-Cycle Cost?

Many organizations only consider the initial purchase and installation cost of a system. It is in the fundamental interest of the plant designer or manager to evaluate the life cycle costs (LCC) of different solutions before installing major new equipment or carrying out a major overhaul. This evaluation will identify the most financially attractive alternative. As national and global markets continue to become more competitive, organizations must continually seek cost savings that will improve the profitability of their operations. Plant equipment operations are receiving particular attention as a source of cost savings, especially minimizing energy consumption and plant downtime.

Source: "Pump Life Cycle Costs: A Guide to LCC Analysis For Pumping Systems." Hydraulic Institute, Europump and the US Department of Energy's Office of Industrial Technologies

LABOUR: SYNONYMOUS WITH RELIABILITY AND SERVICE

LaBour Pumps has been providing all kinds of high quality, specialized pumps to the chemical processing industry for over 80 years. LaBour is known world-wide for progressive, innovative technology, a responsive representative network and for the timely delivery of pumps constructed from special materials like stainless steel, nickel alloys, titanium and zirconium. We believe that we design, engineer and build the finest, longest lasting pumps available in the market. In fact, with only routine maintenance, it's not uncommon for a LaBour pump to be working smoothly way beyond the pump life expectancy of 15 or 20 years. But it's good to know that in the unlikely event of a problem, LaBour's parts, service and representative network is there to get your pumps back online as quickly as possible. LaBour has provided thousands of customers with pumps designed and manufactured for each customers' specifications and unique requirements. No matter what the chemical processing application, a LaBour pump can be built for you.

BECOME A PUMP EXPERT YOURSELF.

If you would like more information about LaBour Self-Priming Pumps—or any other quality LaBour pump—call LaBour-Taber at 317-924-7384, visit www.labourtaber.com, or email us at labourtabersales@peerlesspump.com. We'll analyze your unique challenges and show you how a LaBour pump can work for you!

LaBour Taber

The World's Longest Lasting Pumps ...Bar None!

The LaBour LHLA/LPLA Back Pull-Out Self-Priming Pump

Typical Pump Applications

- Chemical Transfer
- Bilge Water Removal
- Liquor Evaporator
- Tank Car Unloading
- Industrial Waste Treatment
- Mine Dewatering
- Tunnel Dewatering
- Condensate Systems
- Volatile Liquid Handeling

Typical Markets

- Industrial
- Petroleum
- Power
- Utility
- Chemical Process
- Food & Beverage Process
- Pulp & Paper
- Pharmaceutical
- Steel
- OEM
- Agriculture
- Primary Metals
- Pollution Control

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Literature Number LB-025