OBERLIN

CLEAN LIQUIDS
DRY SOLIDS

PRESSURE FILTRATION SYSTEMS

SINCE 1964

THE CLEAR CHOICE FOR CHEMICAL & WASTEWATER FILTRATION

OBERLIN PRESSURE FILTERS

ABOUT OBERLIN FILTER

For over 50 years, Oberlin Filter Company has been guided by the principle: make filters that really work. We have an excellent group of experienced engineers, salesmen, designers, welders, plumbers, electricians, servicemen, and laboratory technicians. We work with our customers to determine the best system for their application, build it ourselves, help start it and provide support throughout its lifetime. There are Oberlin filters that have been operating continuously for over 40 years.

ESTABLISHED, ACCOUNTABLE & FAMILY OWNED

We are a family owned and operated business. Three generations of our family have worked hard to build filters and treatment systems that are dependable, reliable and get the job done. Our founder, Wayne Oberlin, started Oberlin Filter by making one filter at a time. His son, Tom Oberlin, developed and expanded our filtration technology making Oberlin Filter a global leader in liquid solid separation. This attention to detail and tenacity of spirit has enabled Oberlin Filter to grow into an international company that still calls Waukesha, WI home.

VOTED TOP WORKPLACE 7 YEARS AND RUNNING
MILWAUKEE · WISCONSIN JOURNAL SENTINEL

INNOVATIVE INTELLIGENCE

We are an engineering company. Our engineers are your project managers and are responsible to you for the filter's satisfactory operation. They supervise your order from initial design stage, through production and startup. They are always available for support.

WORLDWIDE

We have a global presence. We have manufacturing plants in England and Germany that provide sales, design, manufacturing and service support throughout Europe. We have service agents placed throughout the world. There are Oberlin pressure filters operating in over 30 countries throughout the world.

AFS
AMERICAN FILTRATION & SEPARATIONS SOCIETY

ADAPTABLE TECHNOLOGY

We are active in four major markets: Metal Working Fluids for grinding and machining, Food applications primarily in hot frying oil and specialty oils, Chemical Separations and Industrial Water Treatment. Industrial water treatment covers a wide range of applications with almost all of them unique to the client. We enjoy strong working relationships with GE and their many divisions, Veoliawater, DuPont, and a major semi-conductor manufacturer in their silicon wafer cutting processes.

Partial List of Oberlin Filter Customers

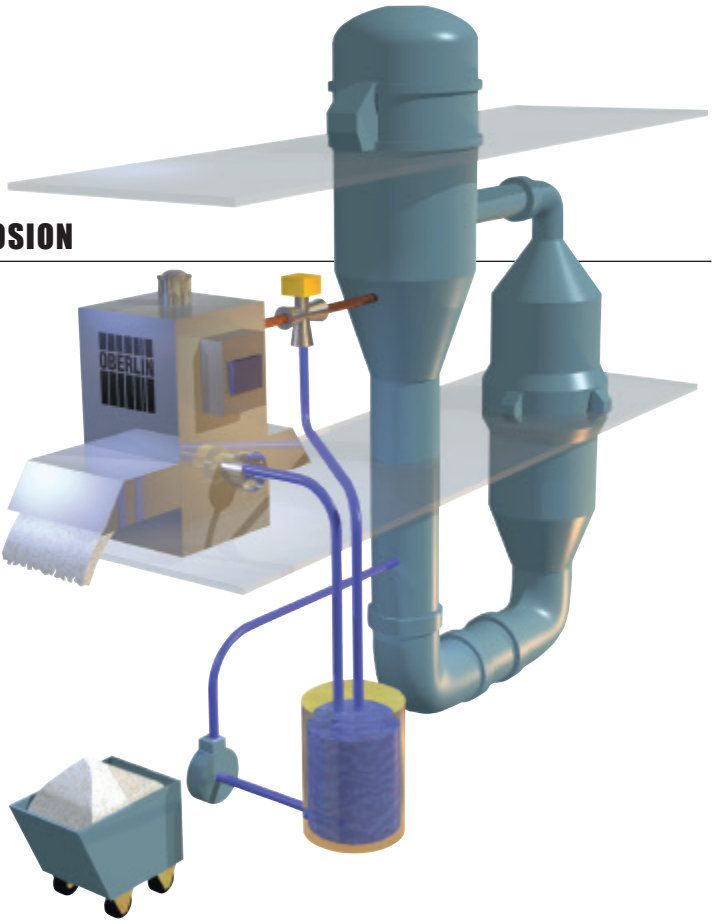
- Aquatech
- Anheuser-Busch
- Caterpillar
- DuPont
- Bechtel
- Frito-Lay
- GE
- Harley-Davidson
- Intel
- John Deere
- Kellogg's
- Koyo Bearings
- Miller Brewing Company
- Shearer's Foods
- Solar Turbines
- Timken Bearings
- Veoliawater

THE OBERLIN PRESSURE FILTER ALTERNATIVE...

USED IN PLACE OF OTHER LIQUID SOLID SEPARATION TECHNOLOGIES

OLD TECHNOLOGY	THE OBERLIN ADVANTAGES
• Cartridges/Bags Filters	• **Automatic Media Change Out** • **Reduce or Eliminate Media Costs Using Rolled Media or Cleanable Belt**
• Plate and Frame Filters	• **Horizontal Surface Provides a Stable Cake Formation** • **Easier for Dilute Slurry Handling** • **Suitable for Batch Processing** • **Uniform Cake Washes** • **No Downtime for Operator Cleaning and Setup** • **Minimal Human Exposure** • **No Hydraulic Packages**
• Tower Vert-Presses	• **Cuts Equipment Costs by Half** • **Simplicity of Design Reduces Maintenance Downtime and Costs**
• Centrifuges	• **Less Capital Cost** • **Excellent Filtrate Quality** • **High Solids Recovery** • **No Special Foundation Needed** • **No High Speed Rotating Parts for Lower Maintenance/Minimizing Crystal Product Damage**
• Rotary Vacuum	• **No Vacuum Pump Means Less Energy Consumption** • **Higher Pressure Differential for More Solids Capacity** • **Minimizes or Eliminates Need for Filter Aids** • **Minimal Product Exposure**
• Strainers	• **Dry Solid Discharge - No Messy Backwashes** • **Improved Solids Separation**
• Clarifiers	• **One Step Separation to Dry Solids and Clean Liquid**
• Others	• **Call Oberlin Filter to Compare**

OBERLIN PRESSURE FILTERS

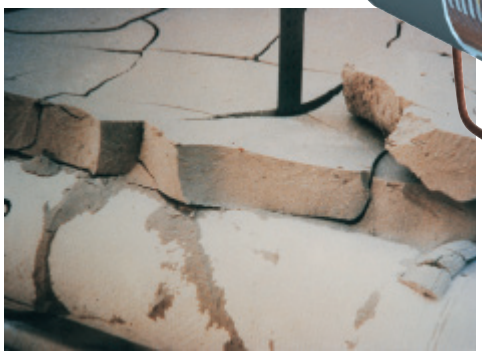


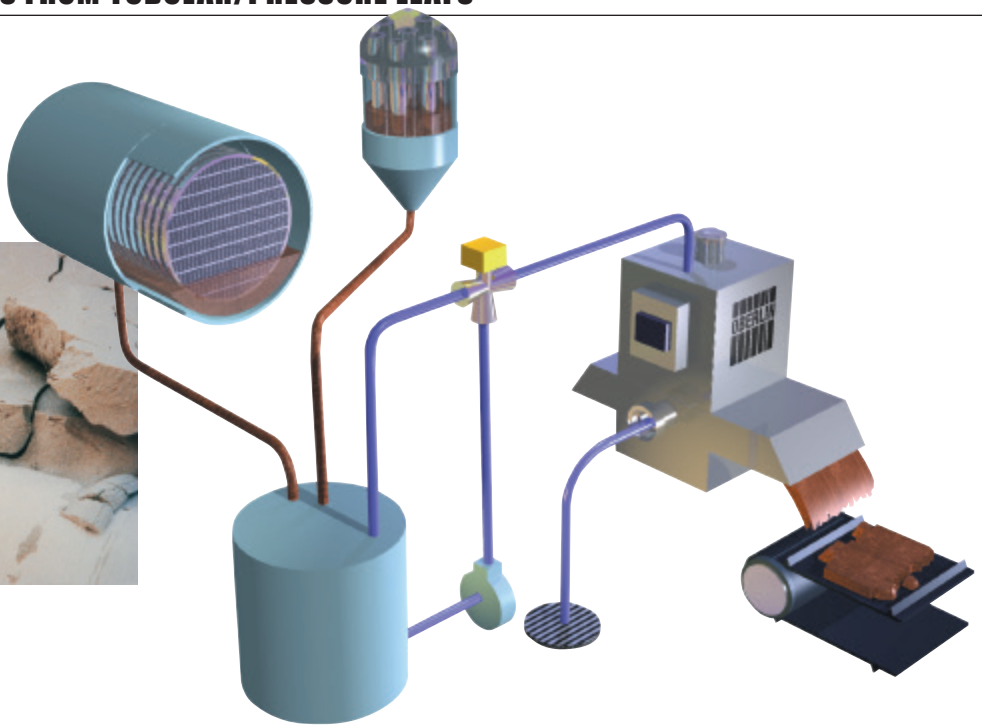
HIGH SOLIDS/HIGH TEMPERATURE/HIGH CORROSION

- Crystallizers
- Wet Scrubbers
- Reactor Separations/Cleanouts
- Radioactive Processing

BACKWASH SEPARATIONS FROM TUBULAR/PRESSURE LEAFS

- Brewery
- Winery
- Chlor-Alkali
- Juice Processing
- Chemical

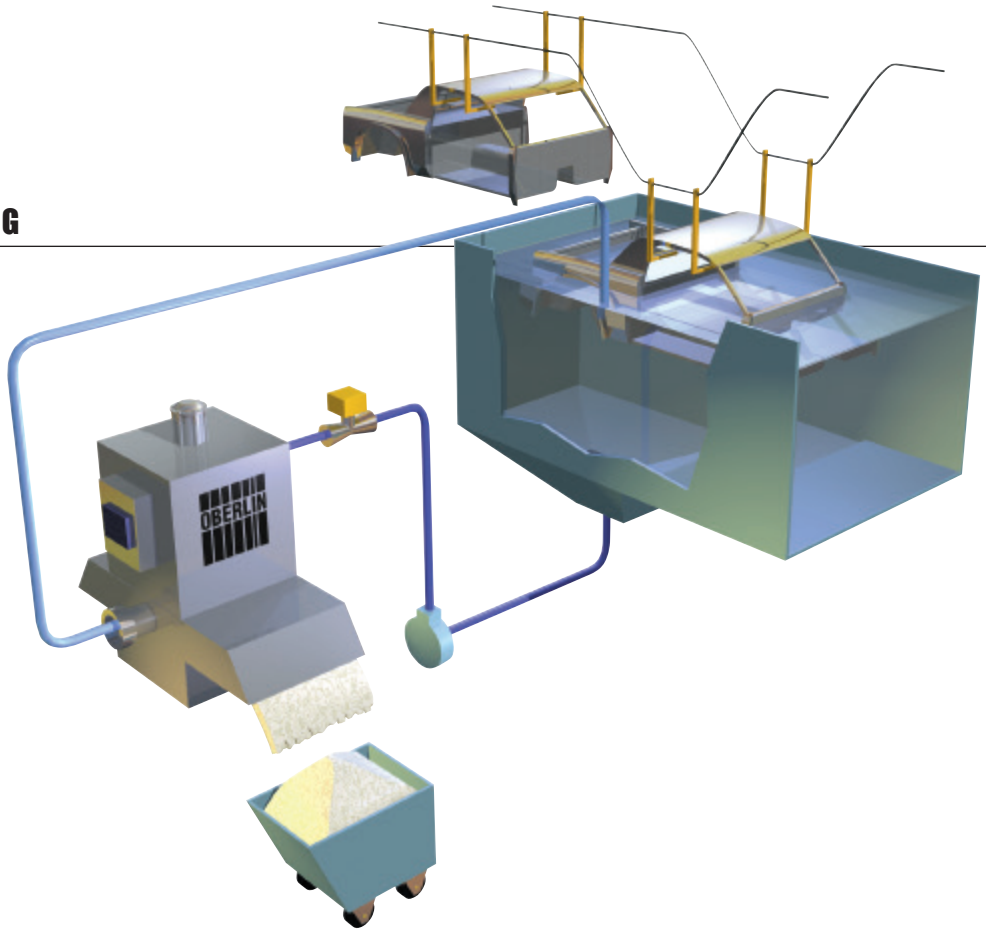




APPLICATIONS UNLIMITED

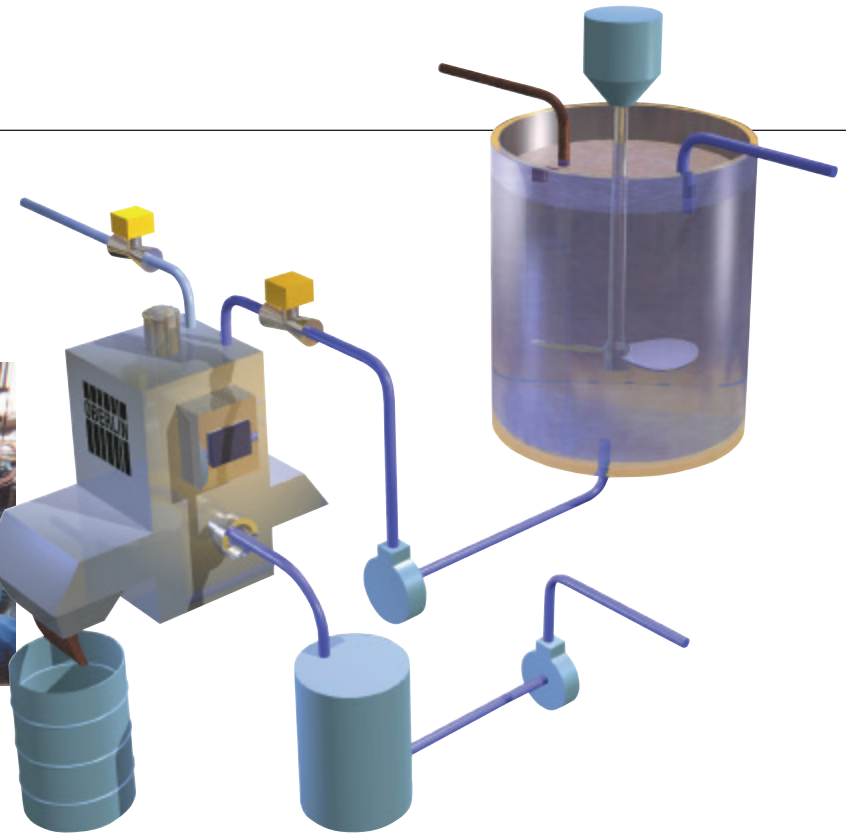
LOW SOLIDS - POLISHING

- Phosphate System
- Plating Baths
- Cooling Towers
- Alkaline/Caustic Cleaner Baths
- UF/RO Prefiltration
- Clarifier Overflows
- Metal Working Fluids and Coolants



BATCH PROCESSING

- Specialty Chemical Separations
- Sludge Dewatering
- Catalyst Recovery
- Clarifier Underflows
- Pelletizer Water

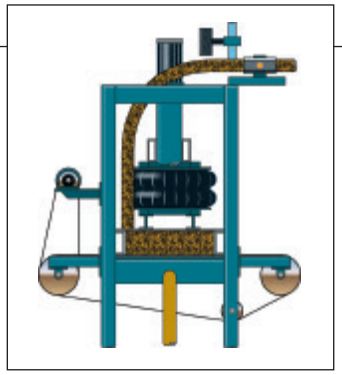


OBERLIN PRESSURE FILTERS

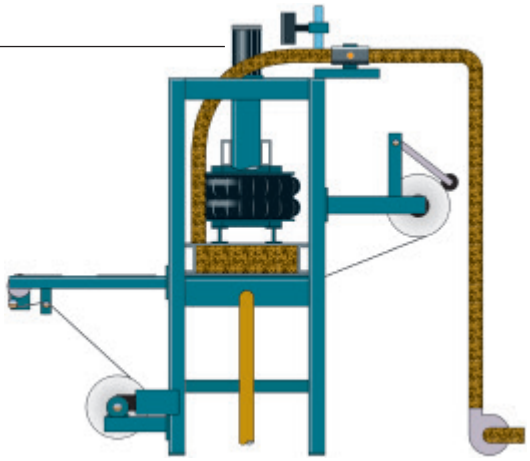
HOW THE FILTER WORKS

1. FILTERING CYCLE:

First the pneumatic airbag holds the filter upper chamber against the lower chamber. Platen seals on the perimeter of the chambers create a liquid-tight seal completely around the filter media or cleanable belt. Solids-bearing liquid is pumped into the upper chamber. Pump pressure forces the liquid through the filter media or cleanable belt. The filtered liquid is collected in the lower chamber and drains out. Solids are held back by the filter media or cleanable belt.

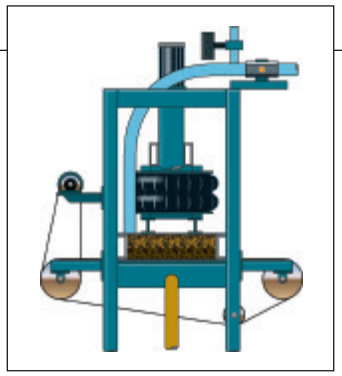


Cleanable Belt
Paperless System

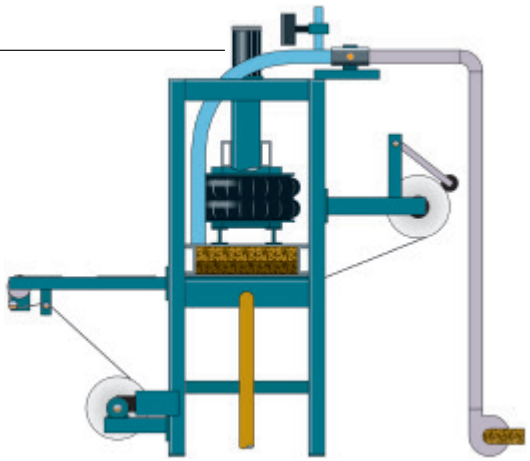


2. DRYING CYCLE:

When the filter pressure reaches 30-40 psi (or higher in some applications), pressurized air or gas is fed into the upper chamber. This forces the liquid through the filtered solids and media or cleanable belt. After the solids are dried, determined by the back pressure and time elapsed, the chamber is lifted.

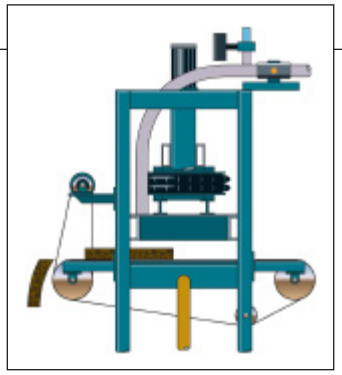


Cleanable Belt
Paperless System

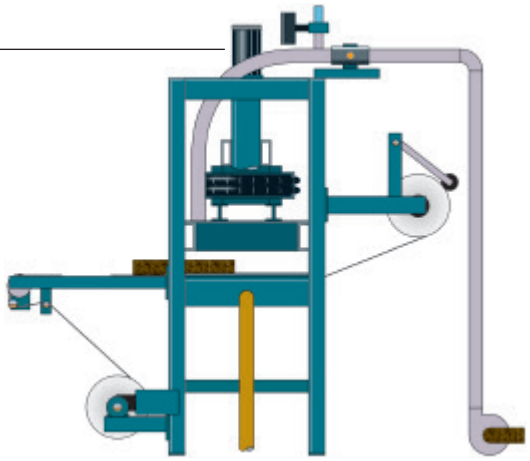


3. DISCHARGE CYCLE:

The solids are automatically discharged using a disposable media reroller or an endless cleanable belt conveyor. The solids are discharged into a hopper. After discharging, the upper chamber automatically descends and a new filtration cycle starts.



Cleanable Belt
Paperless System



OBERLIN PRESSURE FILTERS

AVAILABLE IN A WIDE RANGE OF SIZES AND FLOWS

English & Metric Specifications

Model	Filtering Area (Sq. Ft.)	Footprint (in.) L x W x H	Filtering Area (Sq. Meters)	Footprint (m) L x W x H
OPF-1MLP	1	50 x 39 x 52	0.1	1.3 x 1.0 x 1.3
OPF-2MLP	2	63 x 47 x 56	0.2	1.6 x 1.2 x 1.4
OPF-2MD	2	93 x 57 x 66	0.2	2.4 x 1.4 x 1.7
OPF-4MLP	4	68 x 53 x 56	0.4	1.7 x 1.3 x 1.4
OPF-4MD	4	96 x 62 x 66	0.4	2.4 x 1.6 x 1.7
OPF-6MLP	6	77 x 60 x 56	0.6	2.0 x 1.5 x 1.4
OPF-7MD	7	107 x 71 x 68	0.7	2.7 x 1.8 x 1.7
OPF-9MLP	9	93 x 60 x 56	0.8	2.4 x 1.5 x 1.4
OPF-12MLP	12	112 x 62 x 56	1.1	2.8 x 1.6 x 1.4
OPF-12MD	12	110 x 87 x 81	1.1	2.8 x 2.2 x 2.1
OPF-18MD	18	134 x 94 x 81	1.7	3.4 x 2.4 x 2.1
OPF-21MLP	21	131 x 71 x 64	2	3.3 x 1.8 x 1.6
OPF-24MD	24	148 x 94 x 81	2.2	3.8 x 2.4 x 2.1
OPF-36MD	36	191 x 94 x 87	3.3	4.9 x 2.4 x 2.2
OPF-50MD	50	174 x 129 x 91	4.6	4.4 x 3.3 x 2.3

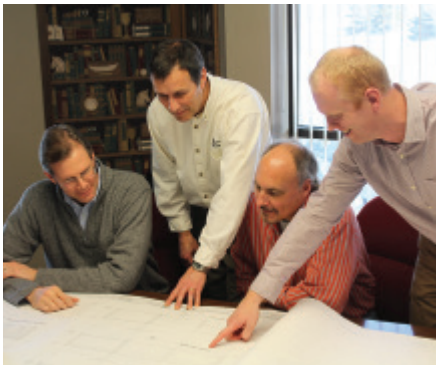
OBERLIN FILTER COMPANY

OFFERS COMPLETELY INTEGRATED SERVICES

Oberlin Filter Company's modern, newly expanded offices and manufacturing facility are conveniently located on ten acres in Waukesha County, Wisconsin (a Milwaukee suburb). Our completely integrated operation includes lab, design and engineering, prototyping, manufacturing with total quality control, startup and testing. We also offer continuing technical support for media selection and our industry-wide database allows us to ensure that you are getting optimal results for your filtration. The plant warehouses a large inventory of components and disposable media to support all Oberlin Pressure Filters along with other brands.

LABORATORY

We offer free lab testing for process evaluation and equipment sizing. Small samples can be analyzed for dewatering rate, filtrate quality and cake dryness. Upon test completion, a report summarizing the results is issued. Pilot filters are available for field testing. Laboratory support is always available to our existing clients for process improvements.



ENGINEERING

Our engineering group works closely with our customers to develop system specifications and to ensure all systems meet those specifications. All phases of design and manufacturing are documented as part of our quality program. A manual is provided with each filter complete with drawing, parts list, sequence of operations and maintenance.

SERVICE

As part of our commitment to quality, our service department was established for after-sale customer support. Our service and engineering staff are available 24 hours a day to answer technical questions, assist in troubleshooting and to ship out spare parts. Qualified field service personnel are available for on site start-ups and maintenance work anytime, anywhere.

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DRY SOLIDS

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