SPECIALISTS IN SOLID/LIQUID SEPARATION

OBERLIN

PRESSURE FILTRATION SYSTEMS

FRYING APPLICATIONS

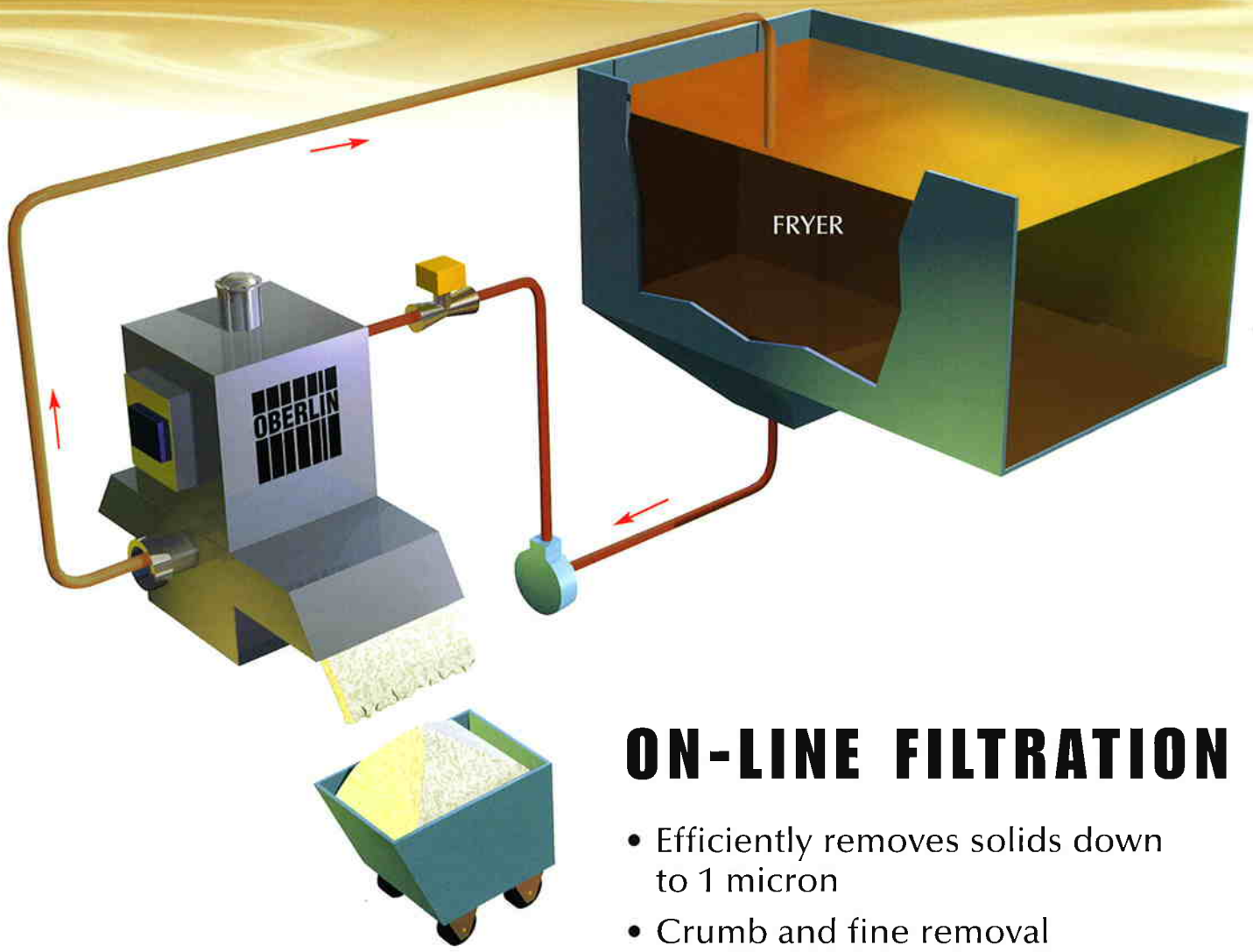
FROZEN POTATOES

POTATO CHIPS

MEAT & POULTRY

TREE NUTS & PEANUTS

APPLICATIONS

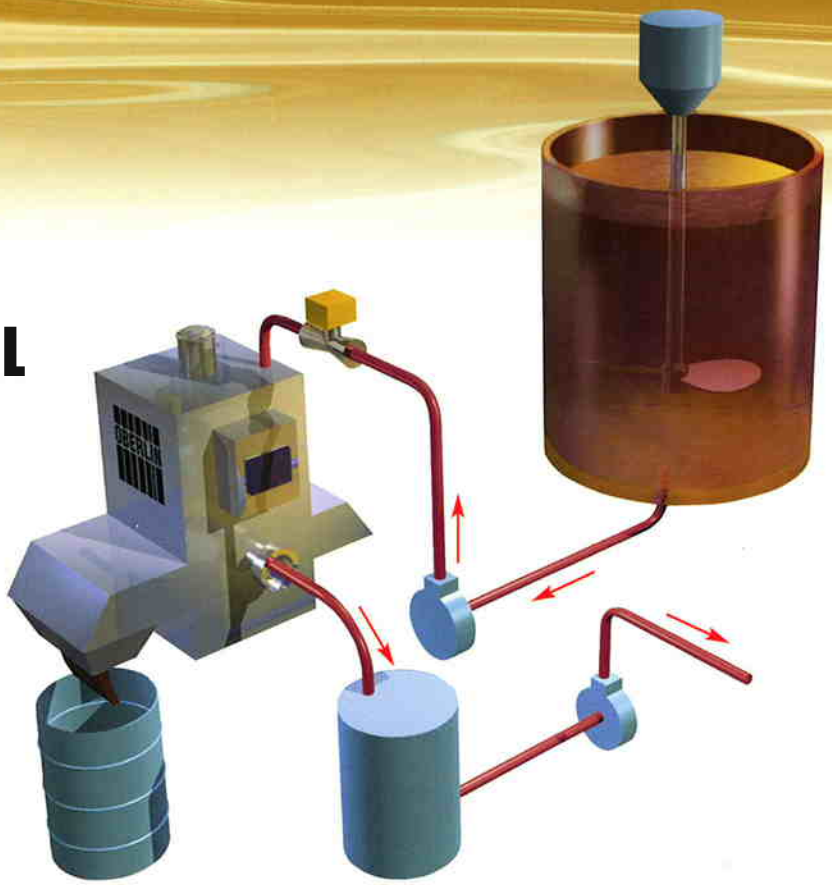


ON-LINE FILTRATION

- Efficiently removes solids down to 1 micron
- Crumb and fine removal will improve:
  - Color
  - Taste
  - Free fatty acids
- Automatically indexes without operator intervention
- Reduces buildup in fryer and heat exchangers

FREE FATTY ACID REMOVAL

- Remove FFA's down to 0.07% - 0.09%
- Can recover oils with up to 0.9% FFA
- Works with most oils
- Eliminate rendering



LAYOUT

OIL RECOVERY

Before and After

Single Pass Filtration

THE OBERLIN FILTER PERFORMANCE

Engineering Specifications

STANDARD UNIT SIZES:

Model	Filtering Area (Sq. Ft.)	Footprint (in.) L x W x H	Footprint (mm) L x W x H
OPF-2	2	80 x 50 x 68	2032 x 1270 x 1727
OPF-4	4	84 x 56 x 72	2134 x 1422 x 1830
OPF-7	7	96 x 64 x 72	2440 x 1626 x 1830
OPF-12	12	96 x 90 x 96	2440 x 2286 x 2440
OPF-18	18	128 x 90 x 96	3250 x 2286 x 2440
OPF-24	24	144 x 90 x 96	3660 x 2286 x 2440
OPF-36	36	190 x 90 x 96	4826 x 2286 x 2440

UTILITY REQUIREMENTS:

Electrical	Air	Water
• All Voltages Supported Including 120, 230, 400, 460 VAC and 24 VDC • 50 Hz and 60 Hz • 5-Amp Base Power	• 4-6 SCFM/ft^2 for 1 Minute Duration/Cycle • 80-100 PSIG	• Supply as Needed for Cake Wash & Cleaning Options

Pressure Limits	Capacity
• 45 PSIG Standard, 75 PSIG Special	• Up to 3 ft^3 Solids/hr/ft^2 of Filter Area

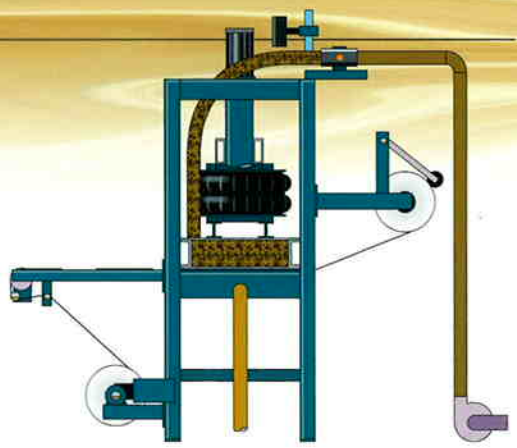
Available Design Standards
• NFPA (Oberlin Standard), UL, CSA, IEC, NEMA, CE, Automotive

OBERLIN FILTER SYSTEMS

How The System Works... Simple as...

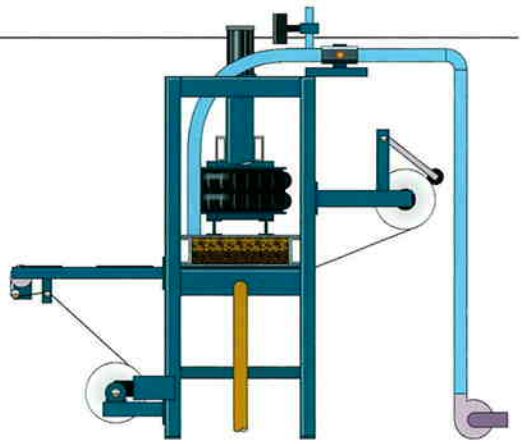
1 FILTERING CYCLE

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.



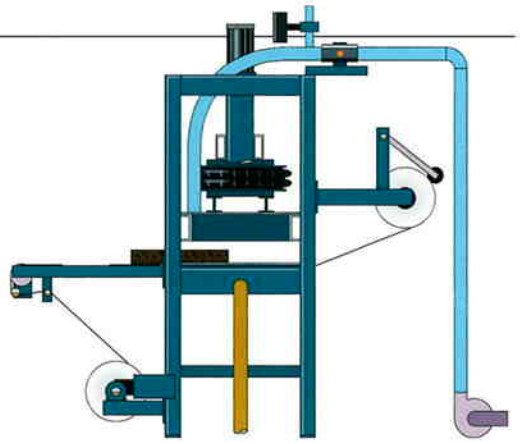
2 DRYING CYCLE

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.



3 DISCHARGE CYCLE

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



OBERLIN FILTER COMPANY

Offers Completely Integrated Services

Oberlin Filter Company's modern, newly expanded offices and manufacturing facility are conveniently located on four acres in Waukesha, 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 testing for process evaluation and equipment sizing. Small samples can be analyzed for dewatering rate, filtrate quality and cake solids. Upon test completion, a report summarizing the results is issued. Filters are also available for field tests. 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 insure 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 onsite start-ups and maintenance work anytime, anywhere.

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