

Micro-Klean Filter

An economical solution for de-watering industrial wastewaters.



The Micro-Klean is an easy to operate filter press system which removes solids from wastewater and produces a clean effluent.

Alar's Micro-Klean:

- ▶ Produces up to a 55% dry solid cake
- ▶ Reduces disposal volume by 95%
- ▶ Filters down to ½ micron
- ▶ Is made with heavy duty carbon-steel construction and PVC piping for corrosion resistance
- ▶ Is available with standard or automatic controls
- ▶ Comes in sizes ranging from 4 to 20 cubic feet
- ▶ Is easily and economically expandable should your waste stream increase
- ▶ Includes a hopper for waste removal



Alar Engineering, Inc.

Pollution Control Systems & Equipment

The Alar Micro-Klean Filter is a self-contained de-watering system for a variety of applications.

Optionally, the chemical treatment portion of the process can be controlled automatically by the system.



Pre-Treatment

Prior to filtration, and if needed, wastewater is chemically treated. On the manual version of the Micro-Klean, the operator fills and charges the treatment tank, chemically treats the waste, and starts the filter press. The automatic version adds chemicals in the correct amounts and rate, adds wastewater as needed to the treatment tank, and starts the filtration process without the need for operator intervention.

Filtration Cycle

Once chemically treated, the effluent is pumped into the Micro-Klean filter press. The filter plate captures the suspended solids while the liquid passes through the filter for sewer discharge or recycling back to the plant. During the filtration cycle, the operator will need to occasionally adjust the pressure regulator for the filter feed pump. On our automated system these adjustments are performed without operator intervention.

Micro-Klean Models

The Micro-Klean filter press is available in several different configurations ranging from 4 to 20 cubic feet of filtration.

Cleaning Cycle

When the filtration cycle is complete, the solids are purged with air for approximately 20 minutes. The operator then retracts the hydraulic ram and separates the filter plates to release the dry solids which fall into the supplied dumpster.

A Complete Line of Technologies

Alar's Micro-Klean is part of a complete line of wastewater treatment equipment, chemicals and, above all else, expertise. Every Alar product is backed by over 30 years of support from our extensive in-house engineering, sales and chemistry departments. As your wastewater needs change, Alar will be there to support you and offer the latest solutions.



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