

Product Catalog
Coolant Filtration 2017



MDF SERIES

MicroTech Drum Filter

The **MicroTech Drum Filter** (MDF) is a permanently-submerged media vacuum-filter designed for cleaning many types of coolants used in grinding & machining. The MDF is a two-stage filter system combining a solids settling tank and a cellulose depth filter into one system. The heart of the system is the **MicroTech Drum Filter** element. Its unique design provides exceptional filtration performance and reliability. The Microtech Drum Filter has been designed to operate between a choice of three grades of cellulose pre-coat – 1, 5, or 10 micron filtration. For course grinding or machining projects requiring only 20/30 microns the filter can be used without cellulose as a media-free “self-coat” filter.

ABOUT

The Microtech Drum Filter is a two-stage suction filter with a permanently submerged media element. The media element, or drum as we refer to it, pulls in dirty coolant from a separate tank into the clean tank, filtering out swarf in the process. Due to the tank's placement, all pumps, valves, and piping only see filtered fluid resulting in extended service life.

The filter element within the drum is constructed using precision stainless steel wedge wire surfaces which are mounted both in and outside of the drum. The Microtech Drum Filter drum is connected to a central collection manifold and then to a standard end suction centrifugal filter pump mounted outside the tank. In normal operation the drum is pre-coated with cellulose which is fed by an automatic powder feeder and mixing tank.

All the solids from the stage one gravity settling and from the stage two cellulose depth filtration, are removed by the automated dragout and

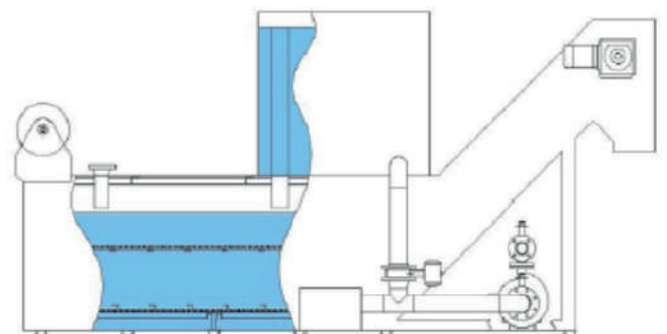
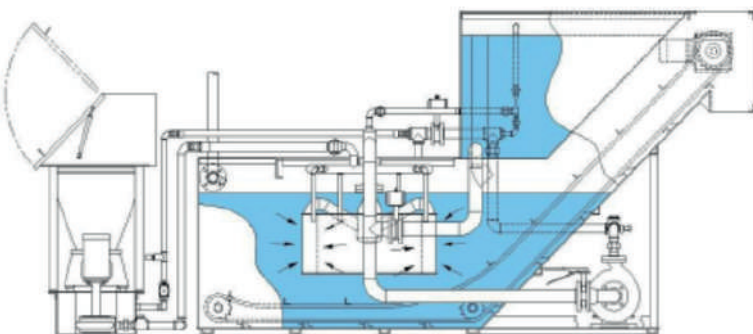


deposited directly into 55 gallon drums for disposal or swarf cart. This eliminates the expense handling and properly disposing of the contaminated roll media.

The slurry mixture is pumped around the drum and is drawn to the filter surface building a perfect filter cake. The filtered fluid is pumped into the clean tank which surrounds the drum and then pumped throughout the machine before going through the filtering process again.

MDF

ROLL MEDIA FILTER



FEATURES OF THE MDF INCLUDE:

High quality components with alarms and gauges to easily identify any problems that may occur.

Unique mixture of features enables the maximum productivity out of filter at the minimum cost of maintenance.

Can be designed to have a particularly compact footprint to for use in areas with restricted floor space.

EFFORTLESS

EFFICIENT

DURABLE

CAMPBELL