

"Li'l Fil" COOLANT FILTRATION SYSTEM

PRODUCT BULLETIN



COMPACT COOLANT FILTRATION SYSTEM WITH CYLINDRICAL BED GRAVITY FILTER

In a number of filtration applications, floor space is at a premium with very little room for a filter along with the space needed for a clean supply pump and reservoir tank. In addition, many of these applications also require a low invert in to the filter for gravity draining as opposed to installing a transfer sump. To meet these requirements and also to provide highly-efficient media filtration, Filtertech offers our "Li'l Fil" Coolant Filtration System. The "Li'l Fil" Coolant Filtration System offers an automatic indexing media filter design, integral reservoir tank, and clean supply pump at a very economical price. Along with its low 12" invert and compact design, the "Li'l Fil" can be located along side most machines thus providing a complete stand-alone coolant filtration system.



TYPICAL APPLICATIONS

- **Machining Coolants**
- **Grinding Coolants**
- **Wire Drawing Coolants**
- **Cooling Water**
- **Quench Oils**



Adjustable belt tensioning device to maintain positive side seal.

EQUIPMENT FEATURES

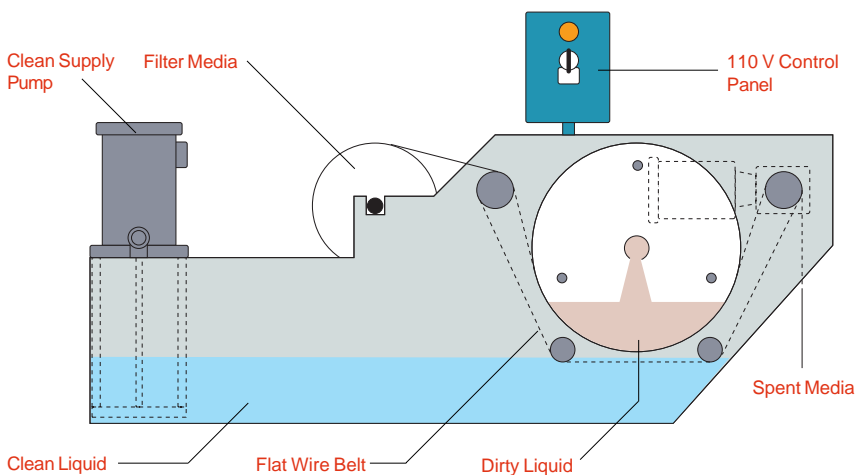
Standard

- Heavy-duty reinforced hot rolled steel vessel construction.
- Low velocity inlet distribution header to maximize filter "cake" formation.
- Direct media drive motor.
- Deep operating liquid level (high static head).
- Heavy-duty flat wire belt conveyor with non-restrictive openings.
- Low invert side inlet connection.
- Single chemical resistant elastomer "O"-ring positive side seals.
- Compact rugged construction.
- Machined non-metallic wheel flanges.
- Low profile reservoir tank.
- 110V control panel with adjustable index timer.
- High-luster protective paint coating.
- 50 yd. roll of disposable filter media.

Optional

- Clean supply pump and 460V/3Ø/60Hz control.
- COR-TEN® steel wetted surfaces.
- Stainless steel wetted surfaces.
- Filter cover.

FIGURE 1
MODEL LF FILTRATION SYSTEM



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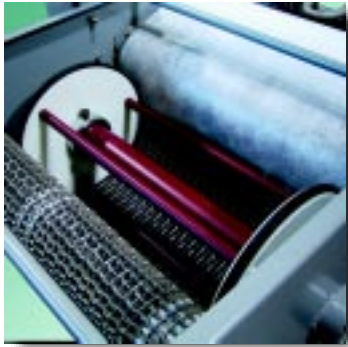
MODE OF OPERATION

Dirty liquid is either pumped or flows by gravity in to the side inlet of the filter. The liquid passes through the low velocity inlet distribution header where it is discharged in to the bed of the filter.

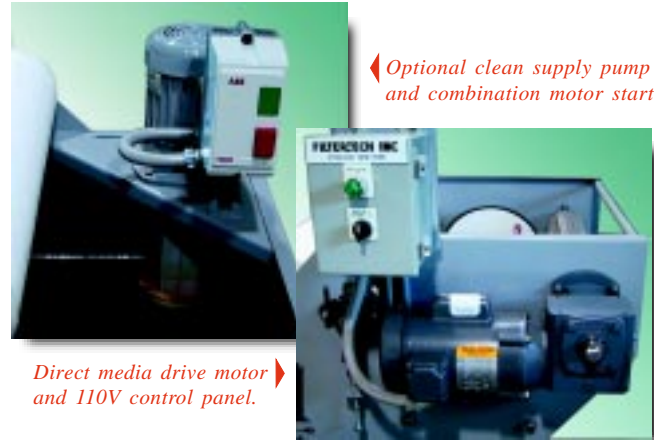
As the liquid passes through the filter, solids are removed by the disposable filter media while the clean liquid drains by gravity into the integral reservoir tank located beneath the filter. Over time the solids accumulate on the surface of the media forming a filter "cake" which further improves filtrate clarity through depth filtration. Over time a preset

timer energizes the media drive which automatically indexes fresh media into the filter while expelling the spent media out the opposite end. The clean liquid in the reservoir tank is then pumped by an optional pedestal type centrifugal pump back to the work for reuse thus providing a complete turn-key system.

The "Li'l Fil" filtration system is controlled by a 110V control panel and optional 460 volt pump control mounted on the filtration system for easy operation and control.



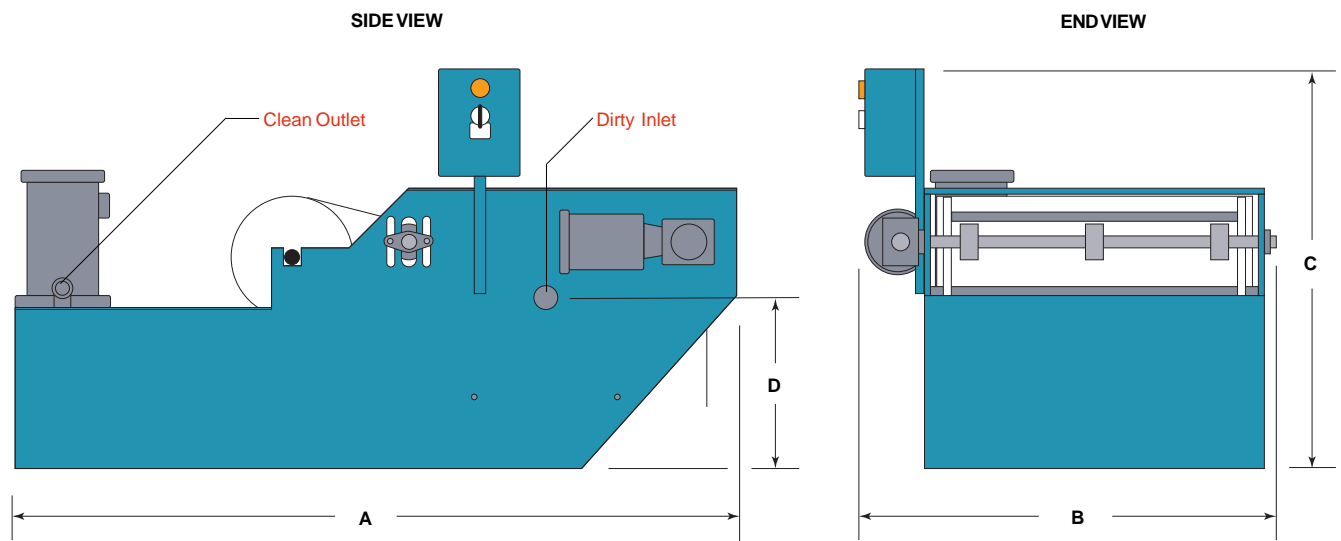
Cylindrical bed design for deep liquid pool.



Direct media drive motor and 110V control panel.

Optional clean supply pump and combination motor starter.

FIGURE 2



SPECIFICATIONS

Model†	Dimensions				Drive Hp	Est. Wt. (lbs.)		Flowrate* GPM
	A	B	C	D		Dry	Wet	
LF2-120	3'-11"	3'-3"	2'-3"	1'-0"	1/6	325	495	21
LF3-180	3'-11"	4'-3"	2'-3"	1'-0"	1/6	385	635	32
LF4-240	3'-11"	5'-6"	2'-3"	1'-0"	1/6	455	790	42

† Other systems are available on a custom basis.
* Flowrate based on rate for water soluble fluids.

Specifications subject to change without notice.