

GRAVITY FILTER (RGF)

FILTRATION
FT
240B
WASTE DISPOSAL

ECONOMICAL LIQUID CLARIFICATION THROUGH GRAVITY FILTRATION

The Filtertech Model RGF Low Profile Gravity Filter provides economical clarification for a variety of applications. The patented Filtertech labyrinth side seal design ensures a positive seal along each edge of the filter media. This eliminates the migration of solids which is a common problem with "wheel" type or seal less shallow bed gravity filter designs.

The liquid pool formed by the seals creates a pressure differential across the media producing an efficient filter cake for removal of contaminants. Higher filtration rates and lower filter media consumption will be realized.

The low profile RGF provides compact system design and integration allowing excellent clean filtrate from a variety of applications.



Model RGF4-970 complete with patented labyrinth side seals.

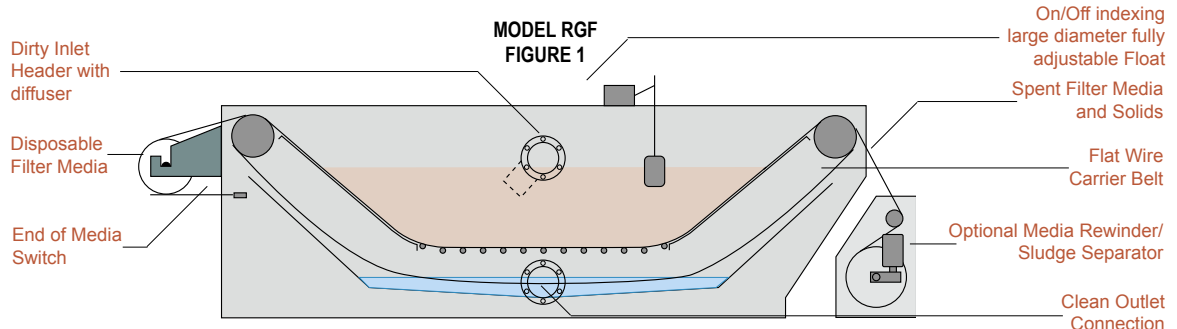
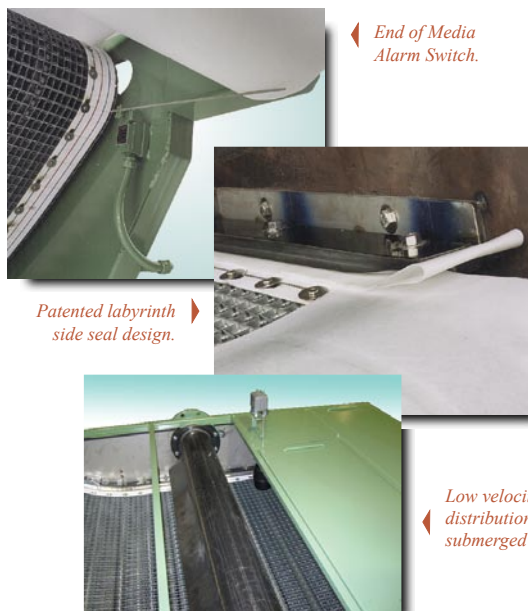
EQUIPMENT FEATURES

Standard Features

- Weldment constructed of 10 gauge (4 mm) hot rolled steel.
- Direct drive system with inline gear reducer and ¼ HP (0.18 KW), T.E.F.C. motor.
- Heavy-duty flat wire belt constructed of galvanized steel.
- High-strength polymer sprockets with steel shafts.
- Adjustable take-up bearings.
- Individual dirty inlet and clean outlet connections.
- Low velocity inlet distribution header with diffuser within the liquid pool.
- Low profile filter bed.
- Heavy duty fully adjustable index on/off float switch.
- Patented labyrinth moving side seals with stationary upper seals and stainless steel/Teflon® retainer.
- Gentle slopes on intake and discharge ramps for heavy solids applications.
- Extended area out of the liquid pool to allow additional drying time for the spent media prior to being discharged.
- 110-volt single phase control panel mounted and wired.
- End-of-media sensor.
- 125-yard roll of filter media.

Optional Features

- Full covers with inspection hatch.
- Epoxy coated wetted surface construction.
- Cor-ten® or Stainless steel construction.
- Collection hopper constructed of hot rolled steel.
- Spent media rewinder/sludge separator (see Product Bulletin FT230).
- 3-Phase control panel.



FILTERTECH

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MODE OF OPERATION

The dirty liquid to be clarified is either pumped or flows by gravity into the side inlet of the filter, through the low velocity inlet distribution header onto the bed of the filter.

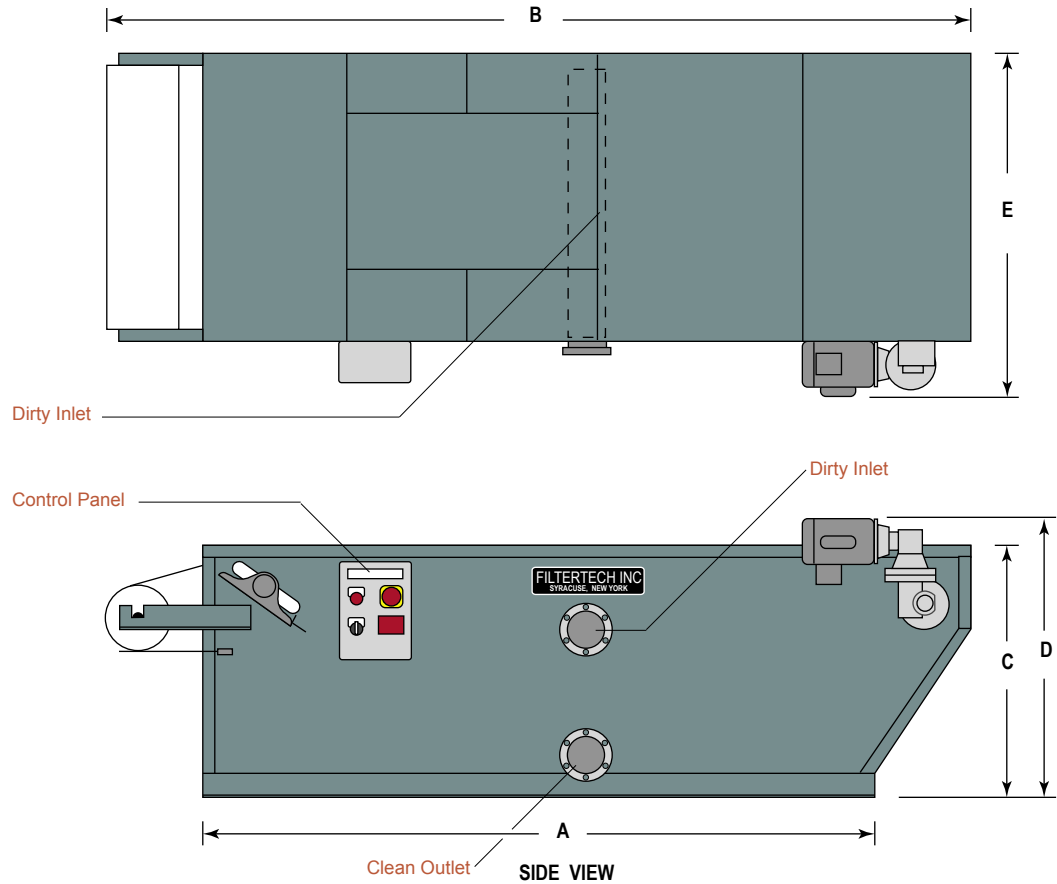
A layer of disposable filter media is positioned within the filter and is supported by a flat wire conveyor belt. As the dirty liquid passes through the filter, solids are removed by the media allowing only the clean liquid to pass through, and drain out the bottom of the filter.

The solids that accumulate on the surface of the media form a filter “cake” which further improves filtrate clarity through depth filtration.

Over time, the filter “cake” becomes thicker causing the level in the liquid pool to rise. This is sensed by a level control float which then automatically indexes a small amount of the dirty media out of the filter at the same time introducing fresh media.

To help prevent the roll of filter media from running out, the Model RGF is equipped with an end-of-media switch which senses when the media roll is almost depleted and annunciates an alarm on the control panel.

FIGURE 2
TOP VIEW



SPECIFICATIONS

Model†	□					HP (KW)	eight lbs. (kgs)	
	A	B	C	D	E		Dry	Wet
RGF2-240	46.5" (118)	72.0" (183)	23.0" (59)	26.5" (68)	39.5" (101)	¼ (0.18)	265 (120)	507 (230)
RGF2-320	61.5" (156)	87.0" (221)	23.0" (59)	26.5" (68)	39.5" (101)	¼ (0.18)	312 (141)	658 (298)
RGF2-390	76.5" (194)	102.0" (259)	23.0" (59)	26.5" (68)	39.5" (101)	¼ (0.18)	362 (164)	842 (382)
RGF3-400	46.5" (118)	72.0" (183)	23.0" (59)	26.5" (68)	51.5" (131)	¼ (0.18)	309 (140)	686 (311)
RGF3-530	61.5" (156)	87.0" (221)	23.0" (59)	26.5" (68)	51.5" (131)	¼ (0.18)	364 (165)	907 (411)
RGF3-650	76.5" (194)	102.0" (259)	23.0" (59)	26.5" (68)	51.5" (131)	¼ (0.18)	427 (194)	1,178 (534)
RGF4-580	46.5" (118)	72.0" (183)	23.0" (59)	26.5" (68)	66.5" (161)	¼ (0.18)	363 (165)	876 (397)
RGF4-780	61.5" (156)	87.0" (221)	23.0" (59)	26.5" (68)	66.5" (161)	¼ (0.18)	424 (192)	1,163 (527)
RGF4-970	76.5" (194)	102.0" (259)	23.0" (59)	26.5" (68)	66.5" (161)	¼ (0.18)	507 (230)	1,525 (692)
RGF4-1170	91.5" (232)	117.0" (297)	23.0" (59)	26.5" (68)	66.5" (161)	¼ (0.18)	600 (272)	1,894 (859)
RGF4-1370	106.5" (271)	132.0" (335)	23.0" (59)	26.5" (68)	66.5" (161)	¼ (0.18)	690 (313)	2,252 (1021)

* Specifications and dimensions where applicable are subject to change without notice.

† Other filter sizes are available on a custom basis.

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