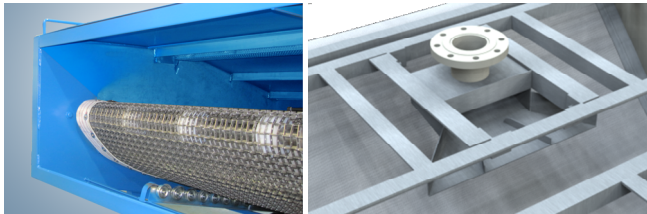


GRAVITY SLUDGE FILTER "GSF15"



LIQUID CLARIFICATION WITH "MULTI-FEATURE" DEEP BED GRAVITY FILTER

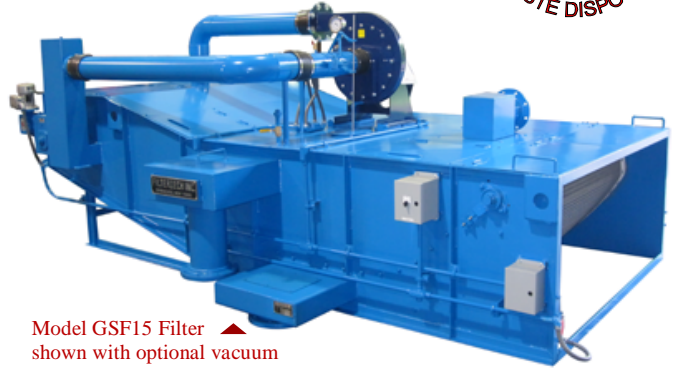
The Filtertech model GSF15 deep bed gravity filter incorporates a moderate 15° discharge ramp to accommodate numerous applications relative to filter "cake" thickness and type of solids generated. There is a significant amount of space above the exiting media to accommodate a filter "cake" up to 6" (152 mm) thick. The extended ramp allows for additional drying of the filter "cake" prior to discharge. When the optional vacuum differential and drying feature is incorporated, the flexibility and efficiency of the filter further increases due to the vacuum differential across the liquid pool and exiting air of the vacuum producer to further dry the discharged filter "cake". The design of the filter incorporates a deep liquid pool of 15" (380 mm) which develops a pressure drop across the filter media, allowing higher filtration rates and lower filter media consumption along with positive labyrinth side seals for very high efficiency filtration. The inlet distributor is positioned above the liquid pool to accommodate various sludge loading. Minimal filter media advancement is possible due to the multi-function level control and ability of the filter to operate at various liquid levels.



▲ Up to 6" (152 mm) Sludge Height

▲ Deep Liquid Pool With Inlet Distribution Header

PRODUCT BULLETIN



Model GSF15 Filter ▲ shown with optional vacuum differential and drying feature.

EQUIPMENT FEATURES

Standard

- Weldment constructed of 3/16" thick (5 mm) Hot Rolled Steel. All external stiffeners constructed of Hot Rolled Steel.
- Full covers with inspection hatch constructed of 14 gauge (2 mm) Hot Rolled Steel.
- Inlet manifold and distribution header with top inlet connection.
- Heavy-duty flat wire belt conveyor constructed of Galvanized steel.
- Full width conveyor support rollers constructed of SCH 40 steel with UHMW bearings.
- Sprockets constructed of high strength polymer material with steel shafts.
- Extended area out of the liquid pool to allow additional drying time for the filter "cake" prior to being discharged and collected into a hopper provided by others.

- Adjustable take up bearings.
- Direct Drive System with inline heavy duty gear reducer and T.E.F.C. motor.
- External clean outlet box and overflow with flange connections.
- Clean out access panel.
- Patented Labyrinth Moving Side Seals with stationary upper seals and Stainless Steel / Teflon® retainers.
- Moderate 15° incline media discharge allows the ability to remove a wide range of solids for numerous applications and prevents solids from returning into the liquid pool.
- Deep 15" (380 mm) liquid pool allows a pressure drop across the filter media and maximum utilization of filter area.
- Clean out access panel on discharge ramp.
- 7" diameter Stainless Steel float ball assembly and stilling well with three position cam / micro switch assemblies for automatic media index on, index off, and overflow, fully adjustable for height and position.
- Control panel mounted and wired for 110-volt single-phase operation.
- Media jog switch located on the filter.
- End-of-media sensor.
- 125-yard (114 m) roll of filter media.

Optional Features:

- 3 HP (5 HP for GSF15-6 Models), high CFM vacuum producer for vacuum differential and dewatering / drying of the discharged filter "cake".
- Specially designed external clean outlet chamber with integral piping.
- Corten®, 304 or 316 Stainless steel construction.
- Spray headers above liquid pool for specific applications.
- Voltage/Hz options.
- Spent media rewriter sludge separator.
- Controlled Level Index (CLI) feature.
- Filter Supports.

FILTERTECH

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MODE OF OPERATION

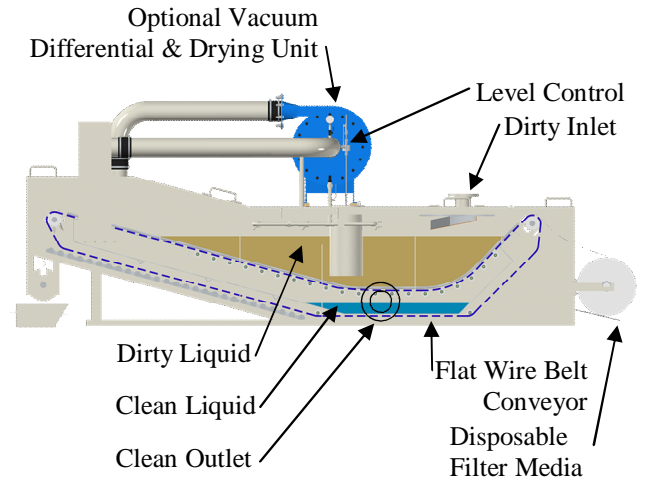
The dirty liquid to be clarified can either be pumped or flow by gravity into the bed of the filter.

A layer of disposable filter media is positioned within the filter and is supported by a flat wire conveyor belt and the conveyor rollers.

The solids accumulate on the surface of the media to create an effective filter “cake” which allows extremely fine particulate to be removed.

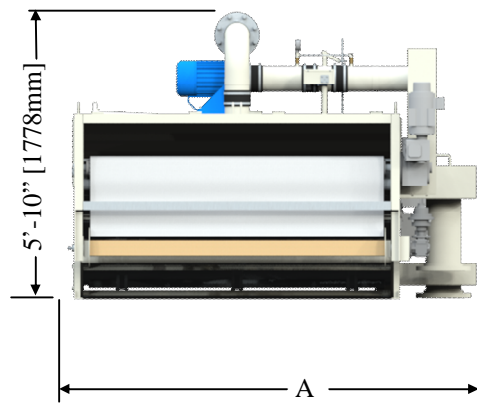
Over time, the filter cake becomes thicker and more dense such that the filtrate rate through the media decreases allowing the level in the liquid pool to rise. This signals the drive to index the collected solids out of the filter in short increments while also introducing fresh media. The liquid level drops whereby indexing is stopped, thus, providing fully automatic operation.

The filter includes Filtertech’s patented labyrinth positive seal design which creates a double side seal to prevent migration of solids around the edge of the filter media.

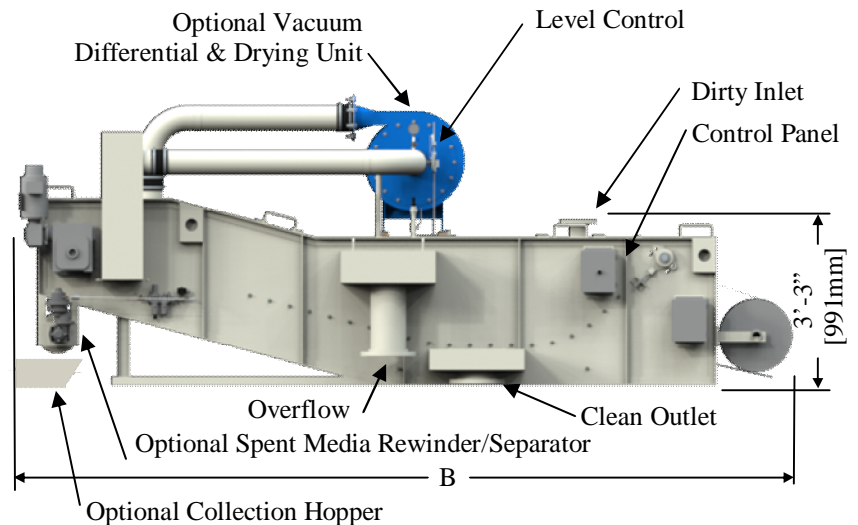


To help prevent the roll of filter media from running out, the filter is equipped with an end-of-media switch which senses when the media roll is almost depleted and annunciates an alarm condition on the filter control panel.

Side View



Front View



SPECIFICATIONS

MODEL	Dimension ft-in (mm)		WEIGHT lbs. [kgs.]	
	A	B	DRY	WET
GSF15-3-760	5'-0" [1520mm]	13'-0" [3899mm]	3,193 [1,449]	4,220 [1,915]
GSF15-3-840	5'-0" [1520mm]	13'-10" [4221mm]	3,277 [1,487]	4,567 [2,072]
GSF15-4-1120	6'-3" [1901mm]	13'-0" [3899mm]	3,576 [1,622]	4,941 [2,242]
GSF15-4-1240	6'-3" [1901mm]	13'-10" [4221mm]	3,684 [1,671]	5,400 [2,450]
GSF15-6-1680	8'-0" [2434mm]	13'-0" [3899mm]	4,144 [1,880]	6,055 [2,747]
GSF15-6-1840	8'-0" [2434mm]	13'-10" [4221mm]	4,282 [1,943]	6,684 [3,032]

Specifications subject to change without notice.

GRAVITY SLUDGE FILTER "GSF15"