FLUIDIZED SAND FILTERS (FSF)

Fluidized Sand Filters

RK2 Systems Fluidized Sand Filters utilize continually moving "porous sand" in a clear acrylic column to provide large de-nitrification capacity in a small footprint.

These proven Bio filters have a distinct advantage over other types of Bio filters as 100% of the media surface area is utilized in the de-nitrification process. They are capable of being placed inline in a low pressure system and maintain a constant flow rate with virtually no maintenance.

Specifically engineered PH compatible medias allow RK2 Systems FSF filters to be used in either marine or freshwater applications.

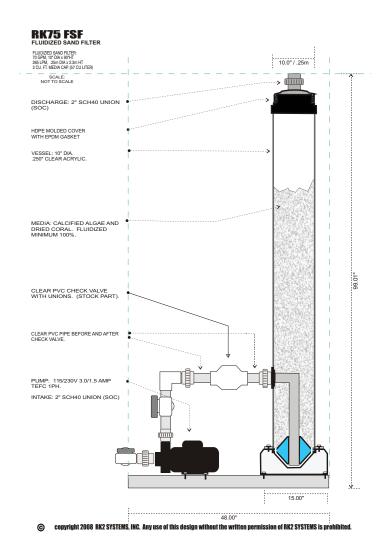
Coupled to an Ozone equipped Protein Fractionator, they create a complete Aquatic Life Support System.

Innovation and quality are built into every RK2 Aquatic Life Support product.

Contact an RK2 Systems professional for specific applications and quotations.

Fluidized Beds Include:

- Fresh or Seawater media
- Check valve and flow pumps with union connectors
- Media restarts automatically with water flow



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FSF Filters			
MODELS	DIAMETER x HEIGHT	MEDIA CAPACITY HEIGHT DRY	FLOW RATE
RK10-FSF	6" x 72" 15 cm x 180 cm	30 lbs. / 14 kgs. .5 cu. ft. 24" / 60 cm	13 gpm 50 lpm
RK40-FSF	8" x 90" 20 cm x 230 cm	75 lbs. / 34 kgs. 1.2 cu. ft. 36" / 90 cm	40 gpm 150 lpm
RK75-FSF	10" x 90" 25 cm x 230 cm	125 lbs. / 57 kgs. 2 cu. ft. 36" / 90 cm	70 gpm 265 lpm

Specifications

Surface Area

10,000 sq. meter per cubic meter 30,754 sq. ft. per cubic foot Weight is approximately 50lbs. per cu. ft.

Nitrification Process Capacities

16 grams ammonia (NH₄) per kilo per 24 hours

1 kilo protein converts to 160 grams ammonia (approximate)

100 kilos livestock = 1 kilo protein (approximate)

10 kilos fluidized sand*-capacity = 100 kilos livestock

Ozone

Strict monitoring and control of ozone dosage is necessary to prevent formation of free stable oxidants in synthetic seawater and bromine compounds in natural seawater. ORP values at no time should exceed 450mv.

Dry mix sea salts must be completely dissolved before exposure to ozone.

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^{*}Two to threefold required for stable system parameters