

Afg Water Treatment Technologies Ltd. Co.

Ayanoğlu Neighborhood, Süleyman Demirel Boulevard.
No:70 Kepez / Antalya, Post Office 07020
Tel : (+90) 242 327 00 17
Fax: (+90) 242 327 00 20

Filtration Systems

KFS Series



Sand Filter Systems

Filtration units are essential components of any water treatment system. Filtration systems are used to remove insoluble particles of various sizes, suspended solids (SS), dissolved gases that impart unwanted chlorine, color, taste, and odor, residues, and organic matter from water.

KFS Series Sand Filter System

The KFS Sand Filtration System consists of three main components: the Control Unit, Filter Housing, and Filter Media. The sand filter uses media to trap particles of varying sizes and densities, which contribute to turbidity, in various layers of the media, thus removing them from the water. The purpose of using different particle sizes is to create minimal space between the layers and maximize sediment retention. Sediment and contaminants accumulated on the filter are automatically removed by backwashing.

KFS Series Sand Filter System Features

- Corrosion resistant FRP (fiber-wrapped) body
- Programmable automatic valve
- Automatic backwash timer
- 3-6 bar working pressure
- Max. 10 bar test pressure
- Max. 50 °C operating temperature
- Material content in 4 different granule sizes
- Electrical supply 220 V/50 Hz



MODEL	SERVICE FLOW RATE (m ³ /s)		LOST (bar)	SERVIC E (inch)	DRAIN (inches)	DIMENSIONS (cm)			ANTHRACY TE (kg)	QUARTZ (kg)
	20 m ³ /s	30 m ³ /s				THE	LB	D		
KFS 35	1	1,5	0,2	3/4	3/4	104	89	25	5	20
KFS 50	1,5	2,2	0,2	3/4	3/4	153	137	25	15	35
KFS 60	1,75	2,5	0,2	1	1	148	132	30	20	50
KFS 80	2	3	0,3	1	1	153	137	33	20	60
KFS 100	2,5	4	0,3	1	1	181	165	36	25	75
KFS 150	3,5	---	0,3	1	1	181	165	41	30	100
KFS 200	3,5	5	0,5	1	1	181	165	46	30	140
KFS 200	4,5	6	0,5	2	2	187	165	46	30	140
KFS 250	6	9	0,5	2	2	182	152	53	40	180
KFS 300	9	---	0,5	2	2	235	183	61	100	250
KSF 500	10	---	1	2	2	235	183	76	125	400
KFS 750	10	---	1	2	2	235	183	92	150	550
KFS 750	14	15	1	2	2	235	183	92	150	550
KFS 900	18	20	1	2	2	247	183	105	250	750

** Device images will vary depending on the model.

Afg Su Arıtma Teknolojileri Ltd. Şti.

Ayanoğlu Quarter. Süleyman Demirel Avenue.
No:70 Kepez / Antalya - Turkey, PK 07020
Tel : (+90) 242 327 00 17
Pbx: (+90) 242 327 00 20

Filtration Systems

EKFS Serial



Multi Media Sand Filters

Filtration systems are basic treatment units in treatment facilities. Filtration systems are used for removing insoluble particulates, suspended solids, unexpected chlorine, colour, taste, soluble gases that causes smell and organic materials.

EKFS Serial Multi Media Sand filter

EKFS Multi Media Sand Filter System; the control unit that consists of PLC controlled electrically actuated or pneumatic actuated valves, Filtration Body and the Filter media. As an industrial multi media sand filter, removes the turbidity creature particulates in different size and density by the help of the media in different layers of the filter media. The aim of the different particle sizes of the filtration media is, obtaining the minimum space in between the media and gaining the maximum filtration. During the backwash, the pollutants collected through the filter media is removed automatically.

Specifications of EKFS Serial Multi Media Sand Filter

FRP TANK MODELS

MODEL	TANK DIMENSIONS (dmt x Htop)	CONNECTION DIAMETERS (DN - Flanged) Service - Drainage	SERVICE FLOWRATE		SAND FILTER MEDIA	
			Cross Section FlowRate 20 m/h	Cross Section FlowRate 30 m/h	ANTRACHITE (kg)	QUARTZ (kg)
EKFS 500	775x2050	50 - 50	9	14	125	475
EKFS 750	975x2150	50 - 50	13	20	175	650
EKFS 900	1075x2400	65 - 65	18	27	200	775
EKFS 1200	1225x2400	65 - 65	23	35	300	1125
EKFS 1600	1600x2500	80 - 80	40	60	550	2025

- Maximum operation pressure 6 bar
- Time Controlled Backwash (Optional differential pressure)
- Butterfly valves with electrically actuated (As an option; butterfly valves with panumatic actuator)
- Bottom Collection pipes (Octopus diffusers)
- Surface piping PVC-U material (on Epoxy painted skid)
- Sample valves and manometers on inlet and outlet lines
- Control panel with electronic card and siemens logo (with touch panel option)
- Electrical connection 220V /50 Hz / 1 pH
- Supply of the required dry air for Pneumatic valves belongs to the customer. Recommended compressor capacity is min. 100 Lt/dk @ 8 bar.



ST-37 EPOXY PAINTED CARBON STEEL TANK MODELS

MODEL	TANK DIMENSIONS (mm) (dmt x Htop)	CONNECTION DIAMETERS (DN - Flanged) Service - Drainage	SERVICE FLOWRATE		SAND FILTER MEDIA	
			Cross Section Flowrate 20 m/h	Cross Section FlowRate 30 m/h	ANTRACHITE (kg)	QUART Z (kg)
EKFS 1250	1250 x 2790	65 - 65	25	37	350	1375
EKFS 1600	1600 x 3020	80 - 80	40	60	600	2375
EKFS 1800	1800 X 3250	80 - 80	50	76	650	2200
EKFS 2000	2000 x 3250	100 - 100	63	94	800	3150
EKFS 2400	2400 x 3400	125 - 125	91	136	1150	4525
EKFS 2800	2800 x 3750	150 - 150	123	185	1575	6200

- Epoxy painted carbon steel tankı
- Maximum operation pressure 6 bar
- Time controlled backwash (Optional differential pressure)
- Butterfly valves with electrically actuator (as an option pneumatic actuator)
- PVC-U surface piping material (Galvanized surface piping as an option)
- Sample valves, manometers and vacuum breaker on inlet and outlet of the systems.
- Control panel with electronic card and siemens logo (touch panel option)
- Electrical connection 220V /50 Hz / 1 pH
- Supply of the dry air for pneumatic actuated

valves is belong to the customer. Recommended compressor capacity is min. 100 Lt/dk @ 8 bar'dır



** Device pictures will be different as per the models of the multi media sand filter.