

Afg Water Treatment Technologies Ltd. Co.

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

Filtration Systems

AKFS Series



Activated Carbon 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.

AKFS Series Activated Carbon Filter

AKFS Active Carbon Filtration Systems, with the adsorption feature of active carbon, draws molecules and ions in water towards the inner surfaces through mineral pores, thus removing organic matter from water.

It ensures that the water is purified, colorless, odorless, and clear. Active Carbon Filters operate fully automatically, requiring no human intervention. By performing an automatic backwashing process every 15-20 minutes, the Active Carbon Filter renews itself.

AKFS Series Activated Carbon 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 3 different granule sizes
- Electrical supply 220 V/50 Hz



MODEL	SERVICE FLOW RATE (m3/s)		LOSS (bar)	SERVICE (inch)	DRAINAGE (inch)	DIMENSIONS (cm)			CARBON (kg)	QUARTZ (kg)
	20 m/s	30 m/s				THE	LB	D		
AKFS 20	1	1,5	0,2	3/4	3/4	104	89	25	20	---
AKFS 25	1	1,5	0,2	3/4	3/4	153	137	25	25	---
AKFS 35	1,5	2,2	0,2	1	1	148	132	30	35	---
AKFS 40	1,75	2,5	0,3	1	1	153	137	33	40	15
AKFS 50	2	3	0,3	1	1	181	165	36	50	25
AKFS 75	2,5	4	0,3	1	1	181	165	41	75	50
AKFS 80	3,5	---	0,5	1	1	181	165	46	80	50
AKFS 75	2,5	4	0,3	2	2	187	165	41	75	25
AKFS 80	3,5	5	0,5	2	2	187	165	46	80	50
AKFS 100	4,5	6	0,5	2	2	182	152	53	100	50
AKFS 125	6	9	0,5	2	2	235	183	61	125	100
AKSF 200	9	---	1	2	2	235	183	76	200	150
AKFS 300	10	---	1	2	2	235	183	92	300	150
AKFS 300	14	18	1	2	2	235	183	92	300	150
AKFS 450	18	20	1	2	2	247	183	105	450	200
AKFS 750	18	20	1	2	2	247	183	105	750	200

** Device images will vary depending on the model.

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Filtration Systems

EAKFSSeries



Activated Carbon 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.

EAKFSSeries Activated Carbon Filter

Our EAKFS Industrial Activated Carbon Filtration Systems utilize the adsorption properties of activated carbon to draw molecules and ions in water through mineral pores to their internal surfaces, ensuring clear, colorless, odorless, and free of organic matter. Our Activated Carbon Filters operate fully automatically, without the need for human intervention, using electric or pneumatic actuated valves controlled by a PLC automation system. This is how the Activated Carbon Filter regenerates itself by performing an automatic backwash.

EAKFSeries Activated Carbon Filter System Features

FRP TANKLI MODELS

MODEL	TANK DIMENSION S (mm) (dmt x Htop)	CONNECTION DIAMETERS (DN - Flange) Service - Drainage	SERVICE FLOW		ACTIVATED CARBON FILTER MINERAL	
			Speed 20 m ³ /s	Speed 30 m ³ /s	CARBON (kg)	QUARTZ (kg)
EAKFS 500	775x2050	50 - 50	9	14	225	150
EAKFS 750	975x2150	50 - 50	13	20	325	225
EAKFS 900	1075x2400	65 - 65	18	27	400	275
EAKFS 1200	1225x2400	65 - 65	23	35	550	400
EAKFS 1600	1600x2500	80 - 80	40	60	1000	700

- Coconut-based activated carbon (Optional coal-based activated carbon)
- Maximum working pressure 6 bar
- Time-controlled backwash (Optional differential pressure)
- Electric actuated butterfly valves (Optional Pneumatic actuator option)
- Octopus diffuser bottom collection structure
- PVC-U material surface piping (on epoxy painted chassis)
- Sample taps and manometers at system inlets and outlets
- Electronic card or Siemens logo control panel (Optional touch screen option)
- Electric 220V / 50 Hz / 1 pH
- The customer is responsible for supplying the dry instrument air required for pneumatic valve operation. The recommended compressor capacity is a minimum of 100 L/min and 8 bar.



EPOXY PAINTED CARBON STEEL ST37 TANK MODELS

MODEL	TANK DIMENSIONS (mm) (dmt x Htop)	CONNECTION DIAMETERS (DN - Flange) Service - Drainage	SERVICE FLOW		ACTIVATED CARBON FILTER MINERAL	
			Speed 20 m ³ /s	Speed 30 m ³ /s	CARBON (kg)	QUARTZ (kg)
EAKFS 1250	1250 x 2790	65 - 65	25	37	600	475
EAKFS 1600	1600 x 3020	80 - 80	40	60	1150	500
EAKFS 2000	2000 x 3250	100 - 100	63	94	1500	725
EAKFS 2400	2400 x 3400	125 - 125	91	136	2175	850
EAKFS 2800	2800 x 3750	150 - 150	123	185	2950	975

- Epoxy painted carbon steel tank
- Coconut-based activated carbon (Optional coal-based activated carbon)
- Maximum working pressure 6 bar
- Time-controlled backwash (Optional differential pressure)
- Electric actuated butterfly valves (Optional pneumatic actuator option)
- PVC-U material surface piping (Optional galvanized surface piping option)
- Sample taps, manometers and vacuum breakers at system inlets and outlets
- Electronic card or Siemens logo control panel (Optional touch screen option)
- Electric 220V / 50 Hz / 1 pH
- The customer is responsible for supplying the dry instrument air required for the operation of pneumatic valves. The recommended compressor capacity is a minimum of 100 Lt/min @ 8 bar.



** Device images will vary depending on the model.