

## KF Series Carbon Filters

**SIEMENS**

Siemens Water Technologies KF series carbon filters reliably remove chlorine and reduce organics from the feedwater by filtering the water through a bed of activated carbon. Many processes like reverse osmosis and demineralization must have the chlorine removed from their feedwater to protect the membranes and resin from oxidative attack. The use of activated carbon provides an effective means to protect equipment from chlorine exposure. Activated carbon can also reduce the level of some organics in the feedwater by operating at one half or less of the flow rate utilized for chlorine removal.



### **KF Series Carbon Filters Feature:**

- Top mounted 7 day timeclock with 5-cycle multiport control valve
- Single corrosion resistant fiberglass vessel
- Brass control valve includes fixed and self adjusting flow regulations
- Backwash and fast rinse capable
- High quality carbon with underdrain support media

## Specifications

Tank Size D x H (in)	Pipe Size (in)	Chlorine gpm (m <sup>3</sup> /hr)		Organics gpm (m <sup>3</sup> /hr)		Backwash Flow gpm (m <sup>3</sup> /hr)	Media Vol (ft <sup>3</sup> )
		Commercial* Service Flow	RO-Feed** Service Flow	Commercial* Service Flow	RO-Feed** Service Flow		
10 x 40	1.0	3 (0.7)	2 (0.5)	1 (0.2)	1 (0.2)	5 (0.3)	1
12 x 52	1.0 1.5	6 (1.4)	4 (0.9)	2 (0.5)	2 (0.5)	8 (0.8)	2
14 x 65	1.0 1.5	9 (2.0)	6 (1.4)	3 (0.7)	3 (0.7)	10 (1.1)	3
16 x 65	1.0 1.5	12 (2.7)	8 (1.8)	4 (0.9)	4 (0.9)	14 (1.6)	4
18 x 65	1.0 1.5	15 (3.4)	10 (2.3)	5 (1.1)	5 (1.1)	18 (2.0)	5
21 x 62	1.5 2.0	18 (4.1)	12 (2.7)	6 (1.4)	6 (1.4)	24 (2.7)	6
24 x 72	2.0	24 (5.5)	16 (3.6)	8 (1.8)	8 (1.8)	30 (3.4)	8
30 x 72	2.0	45 (10.2)	30 (6.8)	15 (3.4)	15 (3.4)	50 (5.7)	15
36 x 72	2.0	60 (13.6)	45 (10.2)	20 (4.5)	20 (4.5)	70 (7.9)	20
42 x 72	3.0	81 (18.4)	54 (12.3)	27 (6.1)	27 (6.1)	90 (11.4)	27

\* Flow is based on 3.0 gpm/ft<sup>3</sup> for chlorine removal. Flow is based on 1 gpm/ft<sup>3</sup> for organic reduction.

\*\*Dechlorination flow is based on 2 gpm/ft<sup>3</sup>, and assumes inlet Cl<sub>2</sub><3 ppm; outlet Cl<sub>2</sub><0.1 ppm; inlet turbidity < 5 NTU. Organic reduction flow is based on 1 gpm/ft<sup>3</sup>, and assumes inlet TOC ≤ 5 ppm as O<sub>2</sub> consumed; inlet turbidity < 5 NTU.

## Dimensions

Tank Size D x H (in)	Overall Dimensions L x D x H (in)	Shipping Weight lb (kg)
10 x 40	10 x 10 x 50	100 (46)
12 x 52	12 x 12 x 63	140 (64)
14 x 65	14 x 14 x 76	210 (96)
16 x 65	16 x 16 x 76	310 (141)
18 x 65	18 x 18 x 76	400 (182)
21 x 62	21 x 21 x 74	530 (241)
24 x 72	24 x 24 x 90	1190 (540)
30 x 72	30 x 30 x 96	1530 (694)
36 x 72	36 x 36 x 97	1943 (882)
42 x 72	42 x 42 x 110	2000 (907)

## Design Parameters:

Configuration	Simplex
Feed Water Temperature	45-100°F (7-38° C)
Feed Pressure	30-100 psig +/- 5 psig
Maximum Inlet Turbidity	5 NTU
Sizing	10 gpm/ft <sup>2</sup> minimum
Media	12 x 40 mesh, anthracite based, acid-washed, granular activated carbon. Siemens Water Technologies PN: 29/32399-01
Bed Depth	26 - 30"
Freeboard	51- 85%
Capacities	15 lbs./ft <sup>3</sup> for Chlorine, 1 lbs./ft <sup>3</sup> for Organics (approximate)
Backwash	10 gpm/ft <sup>2</sup>

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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