BULK ACTIVATED CARBON ADSORBER ODOR CONTROL SYSTEMS

Evoqua Water Technologies offers a full range of activated carbon systems for municipal and industrial odor control.

Single Bed Systems

Single bed systems are offered to treat up to 8,000 cfm (13,600 m^3/h) of odorous air. Air flow may be vertically upwards or vertically downwards. Systems may be designed to operate under vacuum or forced draft.

Dual Bed Systems

Dual bed systems are designed to provide double the treatment capacity in the same footprint as in the single bed systems. Air enters at the center of the vessel. Half the air passes vertically upward through the upper bed and half down through the lower bed. Exhaust stacks may be internal or external.

High Flow V-Bank Systems

The V-bank uses horizontal flow through two vertical beds and are ideally suited for projects where height constraint, or high air flows are required. The systems have been built to treat up to 60,000 cfm (100,000 m^3/h) in a single vessel.

Bulk activated carbon odor control systems are manufactured from premium vinyl ester FRP for optimum strength and corrosion resistance.

Optional Features

An acoustic enclosure is offered as an option to reduce noise levels in residential locations. The Evoqua RJMC Series Adsorbers are offered in premium vinyl ester FRP for optimum corrosion resistance. Systems are designed to hold a wide range of activated carbon media. Systems are normally sized to provide a minimum of one year media life.

A grease filter/mist eliminator is recommended upstream of the fan to reduce the maintenance and extend the carbon life.

Standard Features

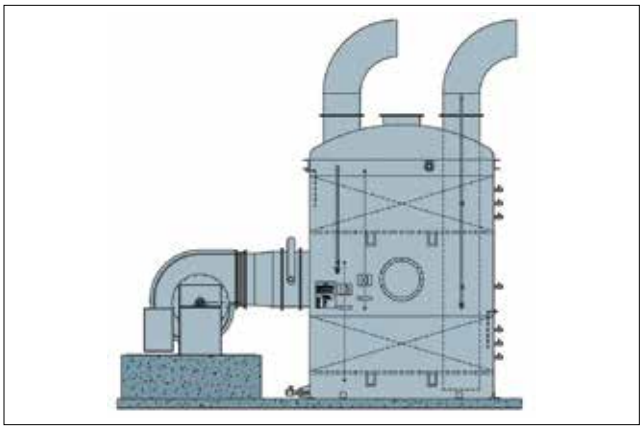
- Air flow rates up to 20,000 cfm in a single unit
- Single or dual-bed systems
- High performance carbon media
- High Volume V-bank designs available

Carbon Adsorbers used as polishing units following a Biotrickling filter.

RJC DESIGN INFORMATION

Model	Airflow Rate	Type	Diameter	Footprint Dimensions L x W x H*	Inlet Connection O.D.	Carbon Wt**	Operating Wt	Fan Motor	Power Supply
Unit	cfm	No. of carbon beds	ft	ft	inches	lbs	lbs	HP	FLA at 460V/3Ph/60Hz
	m^3/hr		*mm*	*mm*	*mm*	*kgs*	*kgs*	*kW*	
RJC-0600	2000	Single	6.0	11 x 7.0 x 7.75	16 3/8	2,500	4,800	5.0	7.5
	3400		*1829*	*3352 x 2134 x 2362*	*416*	*1,136*	*2,182*	*3.7*	
RJC-0800	3500	Single	8.0	14 x 9.0 x 8.5	16 3/8	4,500	8,400	7.5	10.1
	5950		*2438*	*4277 x 2743 x 2565*	*416*	*2,045*	*3,818*	*5.5*	
RJC-1000	5500	Single	10.0	16.5 x 11 x 9.5	19 3/8	7,000	13,000	10	13.5
	9350		*3048*	*5030 x 3353 x 2870*	*492*	*3,182*	*5,909*	*7.5*	
RJC-1200	8000	Single	12.0	18.75 x 13 x 10.25	23 3/4	10,200	19,000	15.0	19.1
	13600		*3658*	*5715 x 3962 x 3124*	*603*	*4,636*	*8,636*	*11*	
RJC-1000D	11000	Double	10.0	17.75 x 11 x 16	25 3/4	14,100	23,000	20	25.2
	18700		*3048*	*5410 x 3353 x 4852*	*654*	*6,409*	*10,455*	*15*	
RJC-1100D	13000	Double	11.0	19.5 x 12 x 16.75	28 5/8	17,100	28,000	25.0	31.1
	22100		*3353*	*5944 x 3658 x 5105*	*721*	*7,773*	*12,727*	*18.5*	
RJC-1200D	16000	Double	12.0	20.5 x 13 x 17	31 1/16	20,300	33,000	25.0	31.1
	27200		*3658*	*6250 x 3962 x 5182*	*789*	*9,227*	*15,000*	*18.5*	
RJC-1400D	20000	Double	14.0	23.25 x 15 x 18.3	34 1/16	27,600	45,000	40.0	49.8
	34000		*4267*	*7087 x 4572 x 5589*	*865*	*12,545*	*20,455*	*30.0*	

* Height to vessel top, excluding stack | ** Dependent upon media type, values are +/- 7%



Media

Evoqua carbon odor control systems are designed to work with a wide range of media.

Midas® OCM

For H_2S odor removal we recommend Midas® Odor Control Media. Midas OCM has the highest odor removal capacity of any media on the market (0.30 g H_2S/cc carbon) and will reduce the frequency of media changeout.

Other Media offered:

- VoCarb® UOCH-KP Caustic impregnated odor control media
- VoCarb® P60 pelletized, coal-based, virgin activated VOC carbon
- VoCarb® 48C, 36C granular, coconut shell activated carbon
- 48C granular, coconut shell activated carbon

Email odorcontrol@evoqua.com or visit www.evoqua.com/bulk to connect with an expert.

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