

Calgon Carbon Corporation

Vapor Application Carbon Operation Suggestion

Subsegment	Application	LV	Contact Time	Other operation	Carobn selection	Alternative
VOC treatment	Air purification	0.1-0.5 m/s Upflow Normal pressure	more than 3S	R.H. < 40-50% Suspended Solid Mist control	AP4-60, AP3-60	BPL
	VOC Control				BPL 4X10	AP4-60, WS380/480
	Odor control -- Mercaptan				BPL 4X10	ST1-X, Centaur
	Solvent Recovery				WS380/480	WSC470/490
Gas Purification	PSA -- H2/ Methane				BPL 4X10	AP4-60
Odor Control	Petro Sulfur remove				MRX-P	MRX-M
Inorganic Gas remove	Acid Gas Adsorption				ST1-X, Solcarb C3	Centaur
	Alkaline Gas Adsorption				Ammonasorb	
	Special Gas Adsorption				URC	ABEK
Catalytic reaction	Catalytic supporter				OVC 4X8 LS	OLC AW, 607C
LNG application	Hg remove				HGR	CB
Incineration	Dioxin & mercury remove				WPA-O	
Power plant	mercury remove				Fluepac	

Liquid Application Carbon Operation Suggestion

Subsegment	Application	LV	Contact time	Other operation	Carobn selection	Alternative
Industrial & Food	Process water	10-25 m/h	4-20 min	SS < 10. max 25. Back wash 30%, 10-20 min Dechlorination 4-8 min. 1 a life	F300D, 207CX, 207C, 607C, OLC AW	Carbsorb 30 Carbsorb 30AW, F300DR
	Condensate water	5-20 m/h	10-20 min. normal T 20-30 min 80-90 C	Oil HC, inlet 0.5-5 10 max ppm. Outlet 0.1-0.5 ppm 1-2 a life Loading 15-40wt. %	207C, 207CX, LSI	Carbsorb30 AW Carbsorb 40AW
	Amine purification	1-5 m/h (SGL) 5-10 m/h	15-20 min	carbon depth 2.4-3 m	SGL/ Sorbamine	BPL 4X10, F300, F300D
	Decolorisation	2-10 m/h > 0.5 m/h	1-2 cp 0.5-2 h 8-10 cp 1-4 h 8-15 cp 2-8 h	sotherm or pilot test is priorit	CAL, CPG, IPG, IPG AW.	Powder: DCL 320, SPA 250
	Home Water Filter	5-25 m/h	5-15 min	Filter company has design	207C, OLC PlusE, OLC AW	Carbsorb 40AW. F400D AW
	waste water	1-15 m/h	20-60 min	SS < 10.	F300DR, F300D	Carbsorb 30, Carbsorb 40
	H2O2 remove	5-20 m/h	5-20 min	Chemical reaction. Concentration is a big	F300D, F400D, Centaur	Carbsorb 30, Carbsorb 40
	O3 Remove	5-20 m/h	5-20 min			
Drinking water	Dechlorination	10-25 m/h	4-8 min	Engineering company or institution provide design proposal	F400D, F300D,	carbsorb 30/40
	T&O removal	5-15 m/h 12*40	6-12 min			
	Pesticide removal	7.5-18m/h 8*30	10-15 min			
	NOM and THM reduction	7.5 -20 m/h 8*20	15-30 min			
	Chlorinated Hydrocarbon	12-20 m/h 8*16	10-20 min	Chemical reaction. Concentration is a big concern	ST1-X, Solcarb C3	Centaur
	Odor Control- H2S remove Vapor	0.1-0.5 m/s	> 5 s			

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