

Calgon Carbon Corporation

Vapour Application Carbon Operation Suggestion

Sub Segment	Application	LV	Contact Time	Other Operation	Carbon 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 4X10
	VOC Control				BPL 4X10	AP4-60, WS380/480
	Odour control				BPL 4X10	ST1-X, Centaur
	Solvent Recovery-- Mercaptan				WS380/480	WSC470/490
Gas Purification	PSA -- H2/ Methane				BPL 4X10	AP4-60
Odour Control	Petro Sulfur removal				MRX-P	MRX-M
Inorganic Gas removal	Acid Gas Adsorption				ST1-X, Solcarb C3	Centaur
	Alkaline Gas Adsorption				Ammonosorb	
	Special Gas Adsorption				URC	ABEKR
Catalytic reaction	Catalytic supporter				OVC 4X8 LS	OLC AW, 607C
LNG application	Hg removal				HGR	CB
Incineration	Dioxin & Mercury removal				WPA-O	
Power plant	Mercury removal				Fluepac	

Liquid Application Carbon Operation Suggestion

Sub Segment	Application	LV	Contact time	Other Operation	Carbon Selection	Alternative
Industrial & Food	Process water	10-25 m/h	4-20 min	SS < 10. Max 25. Back wash 30%, 10-20 min. BW Duration :Dechlorination 4-8 min. 1 year 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 year life Loading 15- 40 % wt.	207C, 207CX, LSI	Carbsorb 30 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	Isotherm or Pilot Test is Priority	CAL, CPG, IPG, IPG AW.	Powder: DCL 320, SPA 250
	Home Water Filter	5-25 m/h	5-15 min	Filter company has to design	207C, OLC Plus, OLC AW	Carbsorb 40AW. F400D AW
	Waste Water	1-15 m/h	20-60 min	SS < 10.	F300DR,F300D F400D,F400DR	Carbsorb 30, Carbsorb 40
	H2O2 Removal	5-20 m/h	5-20 min	Chemical reaction. Concentration is a big concern	F300D,F400D, Centaur	Carbsorb 30, Carbsorb 40
	O3 Removal	5-20 m/h	5-20 min			

Drinking water	Dechlorination	10-25 m/h	4-8 min	Engineering company or institution to 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			
	Odor Control- H2S removal Vapour	0.1-0.5 m/s	> 5 s	Chemical reaction. Concentration is a big concern	ST1-X, Solcarb C3	Centaur

Municipal Drinking Water

Municipal Drinking Water

- Granular Activated Carbon
- Reaction Services
- UV Water Treatment Technologies
- Ion Exchange Technologies
- Powdered Activated Carbon
- Equipment

Water Reuse

- Granular Activated Carbon
- UV
- Powdered Activated Carbon
- Ion Exchange Systems
- Equipment

Wastewater

- Granular Activated Carbon
- Reactivation Services
- UV
- Powdered Activated Carbon
- Ion Exchange Systems
- Equipment

Mercury Removal

Flue Gas

- Powdered Activated Carbon

Liquid Natural Gas

- Granular Activated Carbon
- Palletized Activated Carbon

Medical

Wound Care

- Activated Carbon Cloth

Hemodialysis

- Granular Activated Carbon

Pharmaceutical Companies

- Granular Activated Carbon
- Reaction Services
- Powdered Activated Carbon
- Ion Exchange
- Equipment

Ballast Water Treatment

Hyde Marine

- UV
- Equipment

Environmental Water Treatment

Remediation - Water Treatment

- Granular Activated Carbon
- Reaction Services
- UV
- Powdered Activated Carbon
- Equipment

Landfill Leachate

- Granular Activated Carbon
- Reactivation Services
- Ion Exchange Systems
- Equipment

Ballast Water Treatment

- UV
- Equipment

Pond Aquarium & Swim

- Granular Activated Carbon

Industrial Wastewater

- Granular Activated Carbon
- Reactivated Services
- UV
- Powdered Activated Carbon
- Ion Exchange Systems
- Equipment

Personal Protection Equipment

Respirators

- Granular Activated Carbon

Collective

- Granular Activated Carbon

Apparel

- Activated Carbon Cloth

Metals Recovery

Gold Recovery

- Granular Activated Carbon

Other Metals/Minerals

- Ion Exchange

Energy Storage

Gold Recovery

- Powdered Activated Carbon

Food and Beverage

Sweeteners

- Granular Activated Carbon
- Reaction Services
- Powdered Activated Carbon
- Ion Exchange
- Equipment

Decaffeination

- Granular Activated Carbon
- Reaction Services
- Ion Exchange
- Equipment

Glycerine

- Granular Activated Carbon
- Reaction Services
- Ion Exchange
- Equipment

Brewing/Bottling

- Granular Activated Carbon
- Reaction Services
- Powdered Activated Carbon
- Ion Exchange
- Equipment

Acids/Chemical Purification

- Granular Activated Carbon
- Reaction Services
- Powdered Activated Carbon
- Ion Exchange
- Equipment

Ultrapure Water

- Granular Activated Carbon
- Reaction Services
- Ion Exchange
- Equipment

Vitamins

- Granular Activated Carbon
- Ion Exchange Systems

Tobacco

- Granular Activated Carbon

Residential Point of Use/Entry

Consumer Filtration

- Granular Activated Carbon
- Reaction Services
- Ion Exchange Systems

Whole Home

- Granular Activated Carbon
- Ion Exchange Systems

Environmental Air Treatment

Mercury Removal

- Granular Activated Carbon
- Powdered Activated Carbon
- Pelletized Activated Carbon

Remediation – Air Treatment

- Granular Activated Carbon
- Reaction Services
- Pelletized Activated Carbon
- Equipment

Industrial Air Treatment

- Granular Activated Carbon
- Reaction Services
- Powdered Activated Carbon
- Pelletized Activated Carbon
- Activated Carbon Cloth
- Equipment

Organic Odors

- Granular Activated Carbon
- Reaction Services
- Pelletized Activated Carbon
- Equipment

Industrial Processes

Liquid Chemicals

- Granular Activated Carbon
- Reaction Services
- Powdered Activated Carbon
- Ion Exchange
- Equipment

Catalyst Support

- Granular Activated Carbon
- Palletized Carbon

Gas Processing

- Granular Activated Carbon
- Reaction Services
- Palletized Activated Carbon
- Equipment

Water Processing

- Granular Activated Carbon
- Reaction Services
- Powdered Activated Carbon
- Ion Exchange
- Equipment

Ultrapure Water

- Granular Activated Carbon
- Reaction Services
- Ion Exchange
- Equipment

Bio-Based Chemicals

- Granular Activated Carbon
- Reaction Services
- Ion Exchange
- Equipment

**Contact Application Engineer / Product Management Group:
On Product Choices for Speciality Applications;**

Authorised Distributor



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