

ECS System and Media Info

Carbon Adsorber Systems	
	<p>VX Radial Flow</p> <ul style="list-style-type: none"> - Example: VX-12, The 12 stands for the diameter in feet of the vessel
	<p>V1 Single Bed Vertical Flow Carbon Adsorber</p> <ul style="list-style-type: none"> - Example: V1-48, The 48 stands for diameter in inches of the vessel. Use V1 when we have a system with a separate fan. - Variants of the V1 are below.
	<p>V1-XX-SM – The XX will be the diameter of the vessel in inches and the SM stands for Skid Mount.</p>
	<p>V1-XX-TM – The XX will be the diameter of the vessel in inches and the TM stands for Top Mount fan.</p>
	<p>Ventadsorb PE – Small passive system made of the blue barrels and can handle up to 200 cfm</p>
	<p>Ventadsorb PE-TM – Small system made of the blue barrels, but with a top mount fan. Can handle up to 200 cfm @ 6" w.c.</p>
	<p>Manhole Units – This is the system that fits into a manhole in the street. It is made up of a cone, media canister, and media.</p> <ul style="list-style-type: none"> ○ Sweet Street - Even large manhole unit sized for a manhole with an even number ID ○ Sweet Street - Odd large manhole unit sized for a manhole with an odd number ID ○ Sweet Street - Mini mini unit

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Vent Filter – A small carbon adsorber designed to fit on outlet vents.

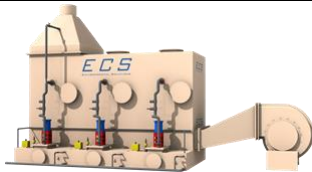
Chemical Wet Scrubbers

X-Pac is our line of chemical wet scrubbers and degasifier



X-Pac VTS– Single round vessel with packing media. Multiple packed towers can be put together in a train to create a multi-stage system.

Wet Scrubber – removes pollutant from air using chemicals. Typically sodium hydroxide and sodium hypochlorite.






X-Pac LP – These systems are rectangular vessel and have multiple stages of treatment. They have a low profile (LP).

X-Pac DG – These systems look like X-Pac VTS systems, but are designed to remove pollutions from water. They are also called degasifiers or air strippers.

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Biological Systems

	<p>Bio-DS – A modular frp vessel that has two stages of treatment. A biotrickling filter in the first stage and a biofilter in the second stage. Uses both the BioPac and BioPure media.</p>
	<p>In-Ground Biofilter – A system that consists of our BioPure media, fan, controls, ductwork, etc. There will not be a vessel to hold the media. The media is put into bays that are built into the ground.</p> <p>Modular Biofilter – the same concept as an In-Ground system, but a modular FRP vessel is used instead of a concrete bay built into the ground.</p>
	<p>BioPac-VTS– Biological system with recirculation pump and BioPac media. XX – is the diameter of the system YY – is the contact time of the system BioPac 7220 is a 72” diameter system with 20 seconds of contact time.</p>
	<p>Bio-DC-CA – This is a two stage system with a biofilter using BioPure in the first stage and carbon media in the second stage. It will have an irrigation system, fan, and control panel, but not a recirculation pump.</p>

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ECS Medias

ECS Product Code	Supplier Name	Comments	Pellet / Granular	lb/ft3	H ₂ S Capacity (min)
ECS-JB.20	Jacobi - AddSorb Sulfox	non-impregnated, bituminous	pellet	32	0.15
ECS-ND.20	Norit - Darco H2S	lignite coal based	granular	25	0.2
ECS-CG.09	Calgon - Centaur HSV	bituminous, water washable	granular	35	0.09
ECS-CG.30	Calgon - Minotaur OC	high capacity, coconut	pellet	24	0.3
ECS-CG.04	Calgon - OVC	coconut shell	granular	28	0.04
ECS-CGVPR	Calgon - VPR	generic		32	0.01
ECS-CGAP	Calgon - AP460	generic		32	0.01
ECS-HY.20	Haycarb 2015	coconut shell base	pellet	24	0.2
ECS-HY.30	Haycarb 2010	coconut shell base - high capacity	pellet	24	0.3
ECS-HY.04	Haycarb 60 CTC	virgin coconut shell	granular	28	0.04
ECS-HYWW	Haycarb Washable	coconut shell base	granular	28	0.09
BioPure 10	ECS	smallest size of BioPure	-	50.1	
BioPure 5	ECS	mid size of BioPure	-	47.5	
BioPure 3	ECS	largest size of BioPure	-	45.5	