MyCelx Snippets - Patented MyCelx Oil Removal Technology

Key Benefits of MyCelx Snippets:

- High capacity gross oil and solids removal from water
- Permanent immobilization of the oil in the MyCelx media.
- Does not build pressure drop even upon complete saturation with oil and solids i.e. it does not foul or clog
- Offer robust gross oil and solids fouling protection to Pleated/ Depth Particle Filters, MyCelx Oil Removal cartridges and Back washable media filters.
- Delivered as dry media – no chemicals or liquid
- Deployed as storm water drain inserts as oil sheen removal systems with above 90% efficiency.
- The media is delivered in mesh bags (3 mm mesh) or in Standard P2/P3 style bag filters for ease of handling and maintenance.
- Hydrophobic. Spent oily media holds less than 1 % water; therefore saturated cartridge has high BTU residual fuel value due to high oil content and very low water content.
- Typical flow capacities of MyCelx Snippets media based systems: 20gpm – 10,000 gpm
- Mesh bags ; P2/P3 Style filled bag filter
- Operating pH range: 3 – 11
- Maximum operating temperature: 170F
- Minimum operating pressure required: 1 psi
- Particle pre-filtration not necessary

Operating Features of MyCelx Snippets media:

Operational Characteristics of MyCelx Snippets Media Based Units:

	MyCelx Snippets based units
Mechanism of oil removal	Instant, permanent and complete oil removal upon contact. True and Broad phase affinity. No desorption. Required contact time for oil removal : < 1 sec
Required Flow rate/ Surface area for oil removal (gpm/ sq.ft SA)	300
Robustness to handle varying oil loading	Effectively handles high to low oil loading even in the presence of high solids
Oil Removal Capacity to greater than 90% removal to 15 microns oil droplet sizes	4-10 lbs/ lb of MyCelx media
Ability to handle mixed oily water streams	Yes. Instant and permanent removal
Oil Removal Effectiveness	>90% oil removal efficiency to 15 microns oil droplet sizes
Fouling tendency with heavy oil and solids loading	No. Continually extracts oil from solids

Operational comparison of various MyCelx oil removal technology based media and cartridges

Parameters	MyCelx HRM Removal	MyCelx EB Cartridge	MyCelx High Temperature Cartridge	MyCelx PCB Cartridge	MyCelx Big Blue Cartridge	MyCelx PermaKleen Media	MyCelx Snippets Media	MyCelx Oil Spill Response Products	MyCelx Oil and Odor Removal air Filter	MyCelx Compressed air oily mist Filters
Color	Yellow	Green or orange	Colorless or light yellow	Colorless or light yellow	Yellow	Mixed	Yellow	Yellow	Yellow or orange	yellow
Type of media	Cartridge	Cartridge	Cartridge	Cartridge	Cartridge	Mesh media pillows	Mesh media pillows	Mats and Pads	Pleated	Cartridge
Std Dimensions	2.5"OD x 10"/30"/40" Ht	2.5"OD x 10"/30"/40" Ht	2.5"OD x 30"/40" Ht	2.5"OD x 30"/40" Ht	4.5"OD x 10"/20"Ht	Standard media filled bag filters/ mesh bags	11' x 12"; 20"x 24" mesh bags	Various sizes per individual product specifications	20"x 24"x 2"; 24"x24"x6"; 24"x24'x12"	2.5"/4.5"OD x 10"/20"/30"/40" Ht
Recommended Flow rate	5-15 gpm/40' ht cartridge	5-10 gpm/40' ht cartridge	5-10 gpm/40' ht cartridge	5-7 gpm/40' ht cartridge	1 -10gpm/20' ht cartridge	38 gpm/ sq ft SA	100-300 gpm/ sq ft SA	na	1000 cfm/ filter	100-300 cfm per filter
Operating Pressure drop	1 psi	1 psi	1 psi	1 psi	1 psi	10 psi	0.25 psi	na	0.1 inches of water	0.2 psi
Min Operating Pressure Required	1 psi	2 psi	2 psi	2 psi	1 psi	5 psi	1 psi	na	na	1 psi
Max Temperature Rating	170 F	170 F	210 F	170 F	170 F	150 F	170 F	170 F	200 F	170 F
Oil Removal Capacity per lb of media lb oil removed/lb media	4-10	4-10	4-10	4-10	4-10	4-10	5-10	3-10	4-10	4-10
Oil and Solids Handling capacity	Yes. But Partiicle prefiltration recommended	Yes. But Partiicle prefiltration recommended	Yes. But Particle prefiltration recommended	Yes.But Particle prefiltration recommended	Yes. But Particle prefiltration recommended	Yes. Particle Prefiltration not necessary	Yes. Particle Prefiltration not necessary	na	Yes.	Yes
Oil Removal Effectiveness – 99% removal to oil droplet sizes	0.3 microns	0.1 microns	0.1 microns	0.05 microns	0.3 microns	10 microns	15 microns	na	HEPA/ULPA Ranges	0.05 microns

Disclaimer: The flow rates and capacities are intended as guidelines and are not a warranty of performance. Performance may vary based on particular conditions of your waste steam.