EQUIPMENT BULLETIN

SIERRA ENVIRONMENTAL TECHNOLOGIES, LLC.

SWEET-AIRE®

ODOR CONTROL SYSTEMS

CARTRIDGE SCRUBBER

SYSTEM DESCRIPTION

SWEET-AIRE CARTRIDGE scrubber units are designed to provide the same adsorption functionality as larger units; but only on a smaller scale. Each unit can be custom-fitted to meet the contaminant removal requirements of almost any application. The carbon cartridge can be filled with media custom-selected to provide the maximum time on stream between changeouts and to deliver the optimum contaminant removal while in service.
Some typical applications are:

- Sewer gas relief vents, manhole ventilation along collection systems
- Headworks channel odor control
- Storage tank vents
- Landfill gas odor scrubbing
- Sludge thickening tank and digester tank odor control
- Tanker truck loading facilities vapor containment
- API separators and other wastewater facility VOC or odor control.
- Laboratory fume hood ventilation VOC abatement

Every SWEET-AIRE CARTRIDGE scrubber contains a media support system that ensures that the airflow across the media is evenly distributed to provide consistent and efficient contaminant removal.

CARTRIDGE SCRUBBER SPECIFICATIONS

Cartridge Container …Schedule 40 PVC
Carbon Capacity …….6-7 lbs.
Carbon Media……..Custom selected to match application
Fan ……..Polypropylene construction with TEFC, 1/3 HP motor. Explosion-proof motor optional.
Inlet…….. .. 3” FERNCO
Outlet…….. 3” Stub Schedule 40 PVC
Support Base……. FRP grating, 1.5” thick
Max Oper. Temp…… 160°F
Max. Flow…….40 ACFM
System Footprint…….30” L x 18” W x 22” H
Optional Enclosure.....40” L x 28” W x 27” H

FEATURES AND BENEFITS

The SWEET-AIRE CARTRIDGE scrubber units provide the end user with many benefits:

- Simple installation and ease of operation
- Corrosion resistant design – no metal in contact with process stream
- Supplied with the type of media to fit the application
- Units can be supplied with optional enclosure to minimize sound and secure the equipment
- System design will handle varying flow rates and process variability without reduction in performance
- Media support system ensures maximum media utilization and longer run lengths than pipe distributor designs
- Minimized treatment cost due to cost-effective design

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