

BIOFILTER TECHNOLOGY FOR LOW VOLUME, HIGH VOC APPLICATIONS

Low Volume Vent Gas from Production Tanks



Introduction:

With the increased industry wide focus on regulations concerning VOC's, Greenhouse Gases, and HAPS released to the atmosphere on both a State and Federal level, there is an economic gap at the 1 to 5 mcf/d range for utilizing recovery or flaring equipment. Hy-Bon Engineering can now offer the solution. By utilizing the already proven technology of ERS's Patented Biofilter Process, the system will reduce emission levels 80 to 95 percent. The system is easy to install and monitoring will be done by Hy-Bon IQR staff using the IR camera and an extended gas analysis. The recommended monitoring frequency is on a quarterly basis to ensure compliance and continued emission reduction levels.

- For condensate and oil storage tanks (with prequalification survey)
- Low Monthly Cost
- No Moving Parts
- No Maintenance Cost
- No Filter Disposal Cost
- Six Month Filter life
- IR camera footage of tank with visual verification of the process.
- Quarterly Data reports Production test reports
- **TCEQ agreement to give an automatic 80% VOC reduction and additional reduction credit with data validation.**



Safety Features:

This Patent Pending filter system was designed with safety as our # 1 Goal. The filter system works within the current range of standard tank pressure relief settings. The filter operates on positive tank pressure therefore all thief hatches and Enardo valves need to be inspected for proper working conditions. In the event of an upset in pressure or increased flow rate of gas, the current safety equipment would work to relieve pressure in the tank. The system comes with a pressure gauge to verify the tank pressure.

BIO FILTER SPECIFICATIONS

Material Construction:

Aircraft grade aluminum base
Schedule 40 carbon steel

Process Connection:

4" NPT
4" Victaulic
4" Flanged

Dimensions

Height (26 inches)
Diameter (11Inches)
Nipple (8 inches)

Flow Range

0-5000 CFD

Operating Pressure Range

Standard: 1 to 6 oz

Operating Temperature

Standard: -40 to 200 deg F



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