

BUBBLE SCRUBBER

PRODUCT DATA SHEET – 106

Continuous acid removal
For solvent-based processing systems

Introduction

The Neutronics Bubble Scrubber is a preconditioning component used in addition to a standard sample conditioning package. The Bubble Scrubber is designed to use absorption to remove contaminants from the sample gas stream, preventing contamination or damage to the oxygen sensor and sampling system components. Large amounts of acid gases and particulate will often overload typical inline filters and corrode or clog the sensor or sample conditioning components. The Bubble Scrubber provides the required contaminant removal, substantially reducing maintenance and increasing system reliability.

Operation

The sample gas enters the Bubble Scrubber through the bubbler tube at the top of the scrubbing column. The gas flows through the tube and is discharged through the diffuser holes at the bottom into the scrubbing media. As the gas flows upward through the column, the scrubbing media absorbs the contaminants from the gas stream.

Installation

The Bubble Scrubber must be installed vertically in the sample line between the process vessel and the sample conditioning package. A Coalescing Prefilter (ref. PDS-101) should be installed between the Bubble Scrubber and the sample package to prevent carry-over of the scrubbing media. Sample tubing must be constructed of corrosion resistant materials. Prior to start-up, open the fill port on top of the sight tube and fill the column with a suitable scrubbing liquid. The liquid level must be visible in the upper portion of the sight tube).

Maintenance

Preventative maintenance includes routine inspections to monitor the fill level of the scrubbing liquid. Periodic replacement of the scrubbing solution is required based on the service conditions and the chemical composition of the process. To remove the solution, open the drain valve or the drain plug at the bottom of the column and drain off the liquid. Refill the column using the fill port at the top of the sight tube. Stop filling when the liquid level reaches the upper portion of the sight tube.

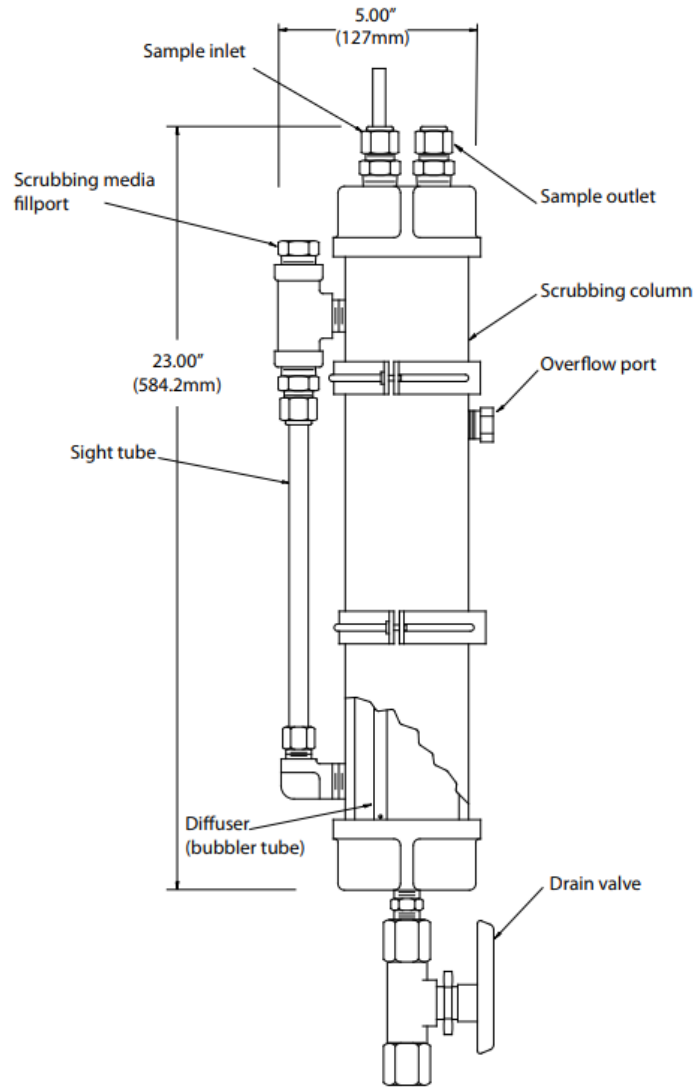


Features

- Effectively removes acid gases and particulate matter from the sample gas stream – increases system reliability
- Scrubbing media absorbs contaminants as the gas flows upward through the column – improves sampling system performance
- Column type design eliminates the need for continuous supply of scrubbing media – low cost of ownership
- Easy access fill port – minimizes maintenance costs and unplanned downtime
- Corrosion resistant materials of construction – available in Stainless steel or Kynar/Teflon – provides reliable long-term service even in challenging applications

BUBBLE SCRUBBER -- SPECIFICATIONS

Materials of construction	Stainless steel or Kynar/Teflon; Teflon sight tube
Component type	Bubble scrubber with top-mounted inlet and bubbler tube
Scrubbing solution	Water or suitable neutralizing liquid (not included)



Order information

Part No. 6-02-1000-99-0	Bubble scrubber with overflow port, MOC: Stainless steel with SS bubbler tube
Part No. 6-02-1000-45-3	Bubble scrubber without overflow port, MOC: Stainless steel with SS bubbler tube
Part No. 6-02-1000-45-8	Bubble scrubber with drain plug only, MOC: Kynar with Teflon bubbler tube



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