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MODEL M1 SPECIFICATIONS

TAPS™ ODOR CONTROL AIR SCRUBBERS

SCOPE

1.1 Under this item, contractor shall supply and install to manufacturer's recommendations, a **Model M1** Taps™ Odor Control Air Scrubber as shown on contract drawings and specified hereunder.

MATERIALS & DESIGN

General

2.1 The scrubber and all components exposed to a corrosive environment shall be manufactured of corrosion-proof material suitable for atmospheres containing hydrogen sulfide and dilute sulfuric acid as well as other gases associated with wastewater collection and processing.

Vessel and Components

2.2 The vessel shall be manufactured of high molecular weight, high-density polyethylene resin, and be in full compliance with DOT/UN regulations. It shall have a lever-lock style of clamp ring with security feature. The air distributor and internal ducting shall be of Acrylonitrile Butadiene Styrene (ABS) plastic.

Cover

2.3 The molded cover body shall be made of ABS plastic which meets Federal Standards of LP 1183. Cover fittings shall be made of ABS plastic. The manufacturer shall install a gasket of closed-cell Neoprene under the cover rim.

Fan

2.4 Fan shall be tested and approved by UL, CSA, or equals. Motors shall be 120V, 1 phase, 60 Hz, operating at 2700 to 2750 RPM with maximum watts of 87. Motors shall be pre-wired with an 8 foot grounded power cord, shall be 100% speed controllable and carry a two-year factory warranty. Fans shall be suitable for air-stream temperature of up to 140° F and shall deliver a nominal maximum of 85 CFM at 1.25" static pressure. Interior installation fan housing shall be of UL recognized thermoplastic resin. Exterior installation fan housing shall be of galvanized steel with baked powder-coat finish.

Gate Valve

2.5 Gate valve shall be 3" and be constructed of PVC with a polypropylene blade that adjusts from unrestricted flow to closed.

Media

2.6 The scrubber shall contain 4 ft³ of media. which shall consist of a mix of Taps™ Oxidizing Granules and other media capable of oxidation and/or absorption and adsorption of malodorous gases in the air stream. Oxidation reactions shall produce solid by-products which are deposited on and within the media. The oxidative and absorptive capacities of the media shall not be diminished by ambient humidity.

INSTALLATION

3.1 Contractor shall install scrubber following manufacturer's written instructions, shop drawings and requirements of contract documents.

FIELD TESTING & TRAINING

4.1 Contractor shall measure atmospheric H₂S in ppm at the intake and exhaust of the scrubber and calculate removal percentage.

4.2 Contractor shall adjust speed control to optimum setting and instruct owner. "Optimum setting" shall be defined as that which maintains a negative pressure at the lowest possible CFM airflow.