

1.00 ODOR CONTROL SYSTEM

a) GENERAL

1) SCOPE

The scope of this section of the specifications includes the furnishing and installation of a package Chemical Injection System, as called for on the plans, complete as described herein, as manufactured by TEI Controls, Cedar Park, Texas (512) 259-2977.

2) ENCLOSURE

The enclosure shall be Fiberglass with continuous stainless steel piano hinge. Provide two (2) 5" x 9" minimum size steel screened louvered vents, one on each end of the enclosure. Provide a locking tab to accept a Master No. 1 size padlock

3) SKID BASE

The skid shall be constructed of a 4' x 5.4' channel welded frame with mid supports for #16" steel plate. Provide a 2" x 2" x 1/8" angle upright support for pump and controls and also a 1/8" x 1" ring support for a 55-gallon drum. Skid base to have 4 – 5/8" holes (2 on each side) for anchoring purposes plus holes for injection and vent piping to side of skid with electrical stub out as shown. The skid base is to be galvanized after construction

4) VALVES AND PIPING

Provide corrosion resistant PVC socket ball valves with balanced Teflon valve seats, no metal parts, maintenance free design where shown on plans. PVC piping and tubing furnished to be rated "chemical resistant" for the chemical that is to be fed. Support piping and valves adequately to avoid sagging and breaking. Supply check valve in bypass piping, set at 5 to 10 PSI to avoid over pressure condition.

5) CHEMICAL SOLUTION

Contractor to purchase and install the specified chemical such as 50% Dilute Solution H₂O₂ (Odor Control) in Odor Control unit prior to start up. Furnish owner with invoice from supplier and attached safety sheets for owner processing,

6) DOCUMENTATION

The manufacturer of the system shall furnish documentation for start-up. Operation and maintenance manuals for system pump and controls are to be supplied with the unit.

7) INSTALLATION

The installation of the odor control Unit and its external connection to the source of power shall comply with the National Electrical Code, local supplemental codes, and the recommendations of the Odor Control manufacturer.

8) ACCEPTABLE MANUFACTURERS

- i) TEI Controls, 212 Industrial Blvd., Cedar Park, TX 78613 (512) 259-2977
- ii) Or pre-approved equal

b) MAJOR ELECTRICAL DEVICES AND COMPONENTS

1) CHEMICAL METERING PUMP

Provide adjustable 5% to 100% feeder pump rated at 2.5 to 50 gallons per 34-hour period at 25psi @ 110V 60Hz constructed of chemical resistant plastic. Pump to be self-priming without the use of a foot valve and built to prevent siphoning

without the use of anti-siphoning valves and diaphragms. Provide pump with internal On/Off switch and plug-in cord. Provide with ¼” tubing connections and one (1) spare tube assembly for feeder pump. Pump to be Stenner Model 45M1-5U (120VAC) or an approved equal.

2) CONTROL PANEL

Provide a single-channel timer control with 24 hour and 7 day programming and include block programs for different weekday schedules in an outdoor (N3R) enclosure. Unit to be capable of 20 On/Off operations per day. The LCD shall display time of day in AM/PM or military time format and provide load status indication. A daylight time adjustment key shall also be provided. The time switch will be programmable to the minute and also offer a manual override for ON or OFF to the next scheduled event or for permanent ON/AUTO/OFF. Programming instructions to be attached to inside of cover. The SPDT relay output shall be rated for 16A resistive for ½HP@ 120V. Provide a Grasslin GMX Digi 20-0-120 or equal with a built-in 100-hour reserve carryover rechargeable NiCad battery, which need not be replaced, or an approved equal.

END OF SECTION