

SECTION 15750

PIIAN MINI VAPORIZER - SMALL SCALE ODOR CONTROL SYSTEM

Control of odors emitting from garbage compactors, garbage dumpsters and or garbage chutes.

PART 1 – GENERAL

1.1 RELATION TO DIVISION 1

- A. Drawings and applicable provisions of the General Conditions, Supplementary General Conditions and General Requirements in Division 1 govern work under this section.
- B. Where contradictions occur between this section and Division 1, the more stringent of the two shall apply. The engineer shall decide which is more stringent.

1.2 SCOPE

- A. This section includes specifications for a Piiian Mini Vaporizer System, a small scale Vaporizer type odor control system for control of odors emitting from garbage compactors, garbage dumpsters and or garbage chutes. Included are the following topics:
 - Piiian Mini Vaporizer Spray Unit
 - Piiian Odor Neutralizer – the odor neutralizing solution sprayed from the Mini Vaporizer unit.

1.3 RELATED WORK (by others)

- A. Section 14100 – Electrical Power Distribution, provide 115 vAC 15 Amp receptacle at Mini VAPORIZER location.

1.4 SUBMITTALS

- A. Refer to Division 1, General Conditions, and Submittals.
- B. Include manufacturer cuts sheets, dimensions, capacities, options included, materials of construction, ratings, weights, motors, installation instructions, startup instructions, operating instructions and maintenance instructions.

1.5 Quality Assurance

- A. Manufacturer to have minimum 5 years experience producing products specified in the section and be able to provide adequate references of other buildings or sites implementing this type of odor control technology.
- B. Installer to be approved by manufacturer and have minimum 5 years experience working with this type of equipment.

1.6 Warranty

- A. Furnish manufacturers standard one year warranty for equipment and extended warranty provisions for odor neutralizer consumption.

PART 2 – PRODUCTS

2.1 GENERAL

- A. System to operate with minimum dripping and not to cause wetting or other moisture related problems.
- B. System to produce a uniform “VAPOR” of 5 Micron (mean) sized fluid droplets.
- C. System to be industrial quality construction suitable for constant operation.
- D. System to dispense Piiian all natural odor neutralizer solution only.
- E. Odor neutralizer solution to have independent laboratory test data which confirms odor reduction, safety and toxicity properties.
- F. Odor neutralizer solution to be non-hazardous, non-flammable, non-toxic, non corrosive and water soluble.

2.2 PIIAN MINI VAPORIZER SPRAY UNIT

- A. Ultrasonic vaporizing nozzle and tube
- B. 115 vAC 1PH 60 Hz 1/3 HP air compressor motor.
- C. One year between scheduled refills.
- D. NEMA 4X electrical enclosure with clear Lexan lockout cover.
- E. Custom designed electronic circuit control board with easy to use programming and operation buttons.
- F. Automatic shut down upon freezing conditions.
- G. Digital display timer independent set buttons for time off and time on.
- H. Low tank alert and tank empty alarm
- I. 304L stainless steel chassis and cabinet construction with wall mount flanges.
- J. 5 gallon container capacity lower cabinet.
- K. Lockable cabinet door.

2.3 PIIAN ODOR NEUTRALIZER

- A. All natural components and formulation.
- B. Completely derived from essential oils and plant extracts.
- C. All contents GRAS by FDA (generally recognized as safe).
- D. Product is to destroy common odorous gases and compounds by absorbing and biodegrading action.
- E. Product to have no added fragrance or masking properties.
- F. Provide independent laboratory test data conforming destructive properties relating to common odorous gases and compounds.
- G. Independent laboratory test data confirmation of safety and toxicity properties.
- H. Product to be non-hazardous, non-toxic, non-flammable and non-volatile.
- I. Product to be water soluble.
- J. Must not require special handling or packaging, spills capable of being flushed with water to drain.

2.4 MANUFACTURERS

- A. Piiian Systems, Palm Springs, California. Tel (888) 377-3646. 1243 South Gene Autry Trail, Palm Springs, CA 92264
- B. Substitutions: Not permitted

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Mini Vaporizer Unit to be mounted on a wall close to odor source, vapor outlet to be positioned to deliver odor neutralizer directly at odor source.
- B. Installer to read installation instructions supplied with Mini Vaporizer Unit.
- C. Mini Vaporizer System to be started up by installer and cycling function adjusted to provide suitable level of odor control.
- D. Installer to brief building owner / operation on function and operation principles of Mini Vaporizer Unit.