

YOUR BEST DEFENSE AGAINST MERCURY VAPOR.



TACT-AIR 10-8

Mercury Vapor Ionizer > Specifications



Tact-Air Model 10-8

- Based on "High Voltage Electrostatic Precipitation" technology
- Utilizes a 4.8 KV DC Ion Generator
- Releases 2 Billion Ions per second from a 6-Needle Emitter Array
- Ions released into "Vortex Air Stream" of a 75 CFM Speed Control Computer Fan
- Small (7.25"x12"x8.5") and Lightweight (approximately 20lbs)
- Sits on top of any countertop or cabinet
- Electrical Requirements are a Standard 115 volt 60 Hz 3-prong wall outlet
Note: If an extension cord is needed – use only a U-ground 3-prong appliance type

Wall-Mounted Collector Plate

- Positively charged plate – collects all the Vapor Mercury from a Dental Operator
- Cable connects to the Ionizer
- 25ft Cable provided – easily hidden in drop ceilings and office walls
- Collector Plate mounts easily on wall opposite the Ionizer



Tact-Air Systems Inc.

A NUCOVE COMPANY

TOTAL PROTECTION. TOTAL PEACE OF MIND.

TACT-AIR 10-8

The Ion Generator

The Model 10-8 Mercury Vapor Ionizer is based on high-voltage electrostatic precipitation technology utilizing a 4.8 KV DC Ion Generator releasing 2 billion ions per second from a six-needle emitter array into the vortex air stream of a 75 CFM speed-controlled computer fan. When positioned to pass over the patient's face and through the common breathing space between patient, dentist and assistant, the mercury vapor emanating from the oral cavity is attached by the negative ion flow and is carried to a positively charged collector plate mounted on the wall near the patient's feet.

Installation

The cabinet containing the electronics, fan and dust/lint filter measures (7" x 12" x 8") and is best positioned on a shelf or counter top at the head of the dental chair. The high voltage flexible cable connects the collector plate to the ionizer unit and is mounted on the wall about 5 feet high near the foot of the chair. For cosmetic purposes, the flexible cable may be concealed within most hollow walls and suspended ceilings before connecting to the collector plate housing.

Electrical requirements are a standard 115 volt 60 Hz 3-prong wall outlet. If an extension cord is needed, it must be a U-ground 3-wire appliance type, not a 2-wire lamp cord.

Operation

Connect to the power source and turn the Red control to "on". The fan speed is also adjusted by this control. The "Ion Level" control has medium and high settings but should be left on "high" for normal operation. If desired, the medium setting may be selected while the operator is unoccupied. Maximum ion flow is present only on the "High" setting and this setting should always be used when drilling or polishing amalgam. To prevent off-gassing of the Mercury attracted to the collector plate, the unit should operate continuously unless the collector plate is properly cleaned after each shut-down.

Cleaning

The Ionizer should be cleaned bi-weekly. The six needle emitters which launch the ions into the airstream have a propensity to build up dust at their tips which will impede release of the ions. Measurements after a three-month period revealed severe impairment with only 10% of normal ion flow available. A regular cleaning process will keep your Mercury Vapor Ionizer running in proper running order.

To clean, turn the power off and wait 3-5 minutes for the charges on the needles and collector plate to dissipate. Remove the grill from the cabinet by compressing upward against the sealing strip and tipping the bottom edge outwardly. Wipe each of the six needles with an alcohol swab and return the grill.

Next, to clean the wall collector, remove the protective grill by pressing upward, and then wipe the stainless steel plate with an alcohol swab. The swab should be treated and disposed of as hazardous waste. On the rear of the cabinet is a metal mesh air filter to trap dust and lint particles. It should be cleaned periodically as needed by washing in soapy water. To remove the filter, turn the retaining clips up or down, press the filter upwards and slide out the bottom edge.

The Ionizer cabinet is equipped with a Safety Interlock and it is imperative that the mesh filter be reinstalled carefully and properly seated, or the unit will not operate. The small "button" in the microswitch mounted in the lower cabinet area must be fully depressed by the metal mesh filter when its reinstallation is completed.

Warranty

Tact-Air Systems Inc. warrants the Model 10-8 Ionizer and associated collector and cables for a period of one-year including parts and labor.



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