

Mercury is number 3 on the 1997 list of hazardous substances as outlined by the Agency for Toxic Substances and Disease Registry (ATSDR) and the Environmental Protection Agency (EPA).

In 1992, mercury was added to the United States EPA's list of hazardous substances. (Their regulatory threshold of 2 mg/litre is usually exceeded by mercury-containing lamps.)

In 1992 there were 26,000 tons of lamp waste disposed of in Canadian landfill sites, including 2.4 tons of mercury. (Chemical Industry Division, Environment Canada).

Each year an estimated 500 million fluorescent lamps are disposed of in US landfills, roughly 30,000 metric tons of mercury waste.

The EPA reports that 187 incinerators emit approximately 70,000 pounds of mercury yearly.

The Mark 2000 has been tested by an independent laboratory for mercury vapour exposure and has achieved test results well below the following industry regulations:

- American Conference of Government Industrial Hygienists (ACGIH) TLV level of 0.025 mg/m³
- OSHA PEL's TWA level of 0.05 mg/m³

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MARK 2000

The most efficient & advanced crusher available.

FEATURES

- Instantly crushes any length fluorescent lamp into disposable fragments.
- All crushed material completely enclosed in disposable plastic bag.
- Heavy duty fan-cooled motor and specially designed pulverizing apparatus.
- Fully portable on every surface, including all stairways.
- Interlocked electrical circuit incorporates automatic shut off.
- Reduction chamber with hinged door allows convenient access for bag replacement.
- Comes with instruction and safety labels, parts and reference manual.
- All components easily accessible for replacement and/or maintenance.
- Simple design – stable base with metal casing and corrosion resistant paint.
- Removable feed tube (with cover) facilitates ease of storage and shipping.
- Convenient top-mounted illuminated power switch and capacity indicator.
- Recycled loop filtration system ensures no mercury vapour emission.
- Built-in carbon absorption system, particle and combination HEPA/mercury filter.
- Internal chamber pressure plate shuts down unit when capacity is reached.
- One year warranty on parts and labour.

BENEFITS

- Efficient reduction and storage in one environmentally sound unit.
- Crushed lamps mean storage savings and reduced transportation costs.
- Reduces storage needs and eliminates fire hazards.
- Completely enclosed operation reduces risk of injury.
- Consistent handling and treatment of potentially hazardous waste.

SPECIFICATIONS

- Construction:** durable, corrosion resistant painted metal shell.
- Motor:** Enclosed, heavy duty 115V, UL/CSA – CE marked approved (can be manufactured to meet all electrical standards)
- Capacity:** Maximum of 80 four foot crushed fluorescent lamps.
- Height with feed tube:** 55" **Without:** 39"
- Depth:** 24" **Width:** 21" **Weight:** 88 lbs.
- Canada, Japan, Europe – Patent Pending

MARK 2000

ENVIRONMENTAL
TECHNOLOGY
AT ITS BEST



WHEN THE LIGHTS GO DOWN IN THE CITY

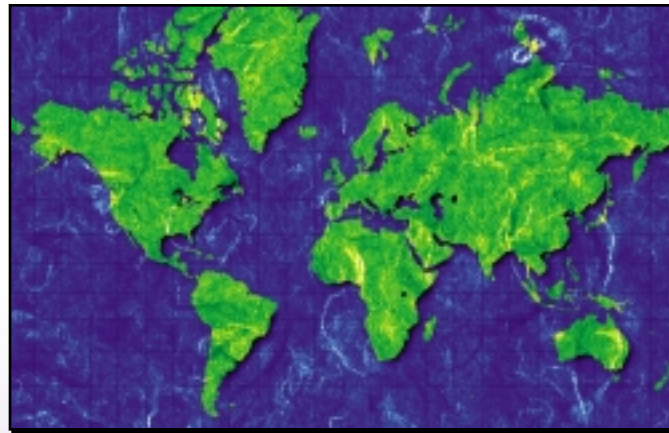
MISSION STATEMENT

Dan-X Incorporated is consciously committed to diverting mercury from becoming an environmental concern through developing and employing cost-effective technologies that are practical and efficient for fluorescent and street lamp disposal programs.

Dan-X Incorporated, based in Sackville, Nova Scotia, was founded by President and CEO Dana Emmerson. With the stringent demands of environmental affiliations and the consequent legislation to help reduce toxic and hazardous components which are infiltrating our atmosphere, Dan-X's mandate has been to research, develop and market new environmental technologies. As a result DAN-X has become the Marketing Agent of a patented operational system engineered for the crushing of spent fluorescent light tubes. The *Mark 2000* is one of the most sophisticated crushing units available in the marketplace today – self-contained, easy to operate, and very portable.



The *Mark 2000* is designed to eliminate exposure to phosphor dust and mercury vapour from broken light tubes through a built-in carbon absorption system and particle filter, and can be used in hospitals, educational institutions, residential complexes and office buildings, as well as manufacturing, commercial and industrial sites.



Distributed throughout North & Central America, Europe, Iceland, Australia and Asia, the Mark 2000 offers a safe, efficient and environmentally conscious alternative to the current handling of spent fluorescent lighting tubes with its innovative filtering system, motorized fragmentation technology and waste disposal packaging – leading the way toward a safer and friendlier environment.

The *Mark 2000* is designed to alleviate safety concerns and restrict potential liabilities from the handling, storage and disposal of spent fluorescent tubes and their associated hazardous waste. With estimates of 267 million fluorescent tubes in use in Canada alone, the Government and Industry Affairs Division of the Building Owners and Managers Association International (BOMA) recently concluded



The Mark 2000 Filter Replacement Kit includes 20 6mil heavy duty disposal bags, one set of mercury/HEPA combination filters, one particle filter and one spent filter disposal bag.

that "Fluorescent lamps are hazardous...and members should be prepared to treat the waste as hazardous." However, while there are presently no federal regulations regarding the disposal of fluorescent tubes, there are strict guidelines which relate to the safe and environmentally sound disposal of mercury vapour and phosphor dust, both classified as hazardous materials. A single four foot fluorescent tube contains approximately 22.8 milligrams of mercury, and according to Environment Canada's Chemical Industry Division, there were 26,000 tons of lamp waste disposed of in landfill sites in Canada in 1992 – which includes 2.4 tons of mercury. In addition, the United States estimates that between 500 and 550 million fluorescent tubes are disposed of annually.

Fluorescent tubes can end up in garbage dumpsters, often in cardboard boxes, and are then crushed or compacted and disposed of in landfill sites. This process fails to meet recycling standards currently in place for cardboard containers and also circumvents the procedure for eliminating hazardous chemical waste.

The *Mark 2000* is engineered to reduce the tube's glass and metal shards from its chemical components, collecting them in heavy duty replaceable plastic bags while filtering the mercury vapour and phosphor dust through specially designed filters. The bags hold up to 60 crushed tubes and can be safely removed, stored in 210L containers, and transported to hazardous waste disposal facilities. This also allows for greater usage of space within the often restrictive and cramped confines of maintenance departments due to the compact storage capabilities of the unit.

Traditionally, the storage of spent tubes awaiting disposal has been a haven for potential injury with regard to breaking them, either accidentally or by design. Fluorescent tubes which are dropped, knocked, smashed with a hammer or thrown into a dumpster explode with terrific force and can shower glass fragments up to a twenty foot radius. In addition, temporary packaging of the glass shards and metal fragments in lightweight garbage bags may also subject a person to injury.

NEW!
Lens & Fixture
Cleaner Kit



Free of volatile organic compounds, comes with 4L each of Concentrate 80-1 Mix and LFC Pre-Mix, 3 ft. spray nozzle applicator, dispensing pump, and 2 packages of heavy duty E-Tork wipes (180 sheets).

