

# MRT COMPACT CRUSH AND SEPARATION PLANT



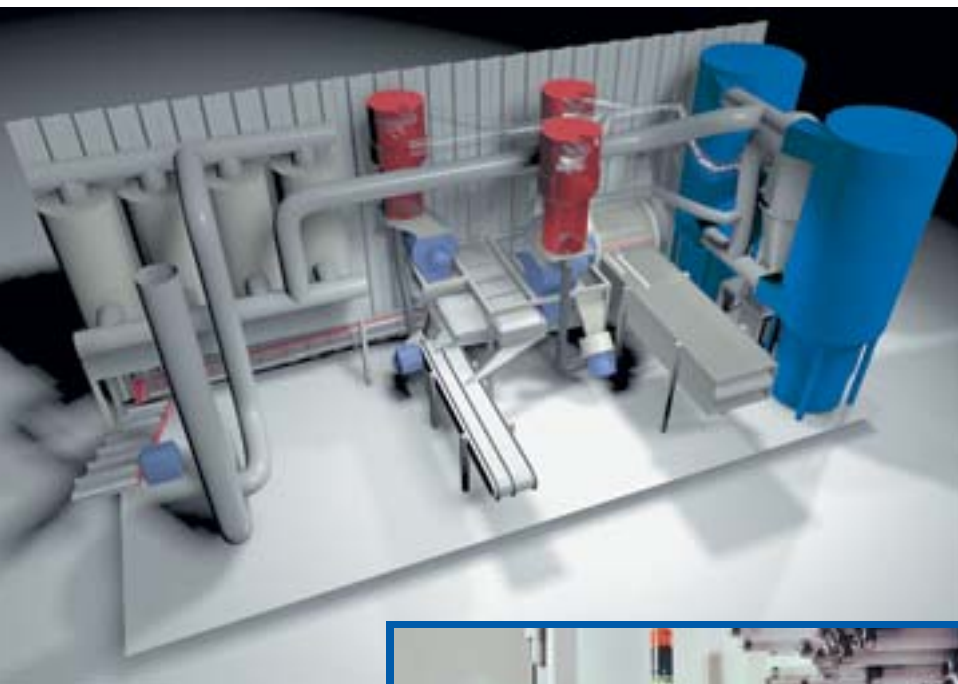
**The MRT Compact Crush and Separation Plant is a unique and protective self contained processing system for the recycling of all types of discarded fluorescent lamps.**

**This superior concept utilizes technology and design from both existing and new MRT patents, resulting in unsurpassed performance and yielding exceptionally clean by-products.**

**The space saving processing plant is easy to install and relocate, and the concept creates operating conditions that meet even the toughest environmental standards.**



# COMPACT CRUSH AND SEPARATION PLANT FEATURES



◀ The entire process is incorporated in a container, in which the air is brought to sub-pressure. Thereby preventing mercury from being released into the environment, as exhaust air is constantly discharged through the internal carbon filters.

The plant is fully automatic and easy to operate. Its versatility allows the processing of various types and sizes of fluorescent lamps, separating the lamps into soda lime glass, aluminium end caps, lead glass/ferro metal components and phosphor powder.

The phosphor powder is separated from the by-products in different steps, which is one of the reasons behind the excellent purity. This is done in a sophisticated patented air transportation system. The mercury bearing powder is collected in distiller barrels beneath the cyclone and the self cleansing dust filters.

◀ The plant is fully automatic, easy to operate and has a proven capacity that reaches over 2.000 lamps per hour. It is equipped with a complete safety system and on the display performance data and alarm functions can be reviewed.

▼ According to our knowledge and vast experience, the by-product components are the cleanest on the market, meeting the strictest standards for purity and low mercury residue values. These by-products also have a secondary market value.

## TECHNICAL DATA

- PERFORMANCE** Capacity: 2000 tubes/h depending on tube length.  
Hg residue value for glass and aluminium end caps: far below strictest limits.  
Hg emission value: far below strictest limits.
- DIMENSIONS** Length: 6060 mm. Width: 2450 mm.  
Height: 2600 mm. (20 ft standard container)  
Recommended floor space: at least 60 sqm.  
Weight: approx. 5 tons.
- CONSUMPTION** Electrical consumption: 25 kW, 400 V, 50 c, 3 ph.  
Fuse 63 amp. The electricity can be adapted for different country standards.  
Compressed air: min 6.5 bar, approx. 250 l/min.  
Exhaust air: approx. 1500 cub. m/h via stack.  
Duct diameter: 200 mm (8 inch).

*We reserve the right to change technical data without notice.*



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