

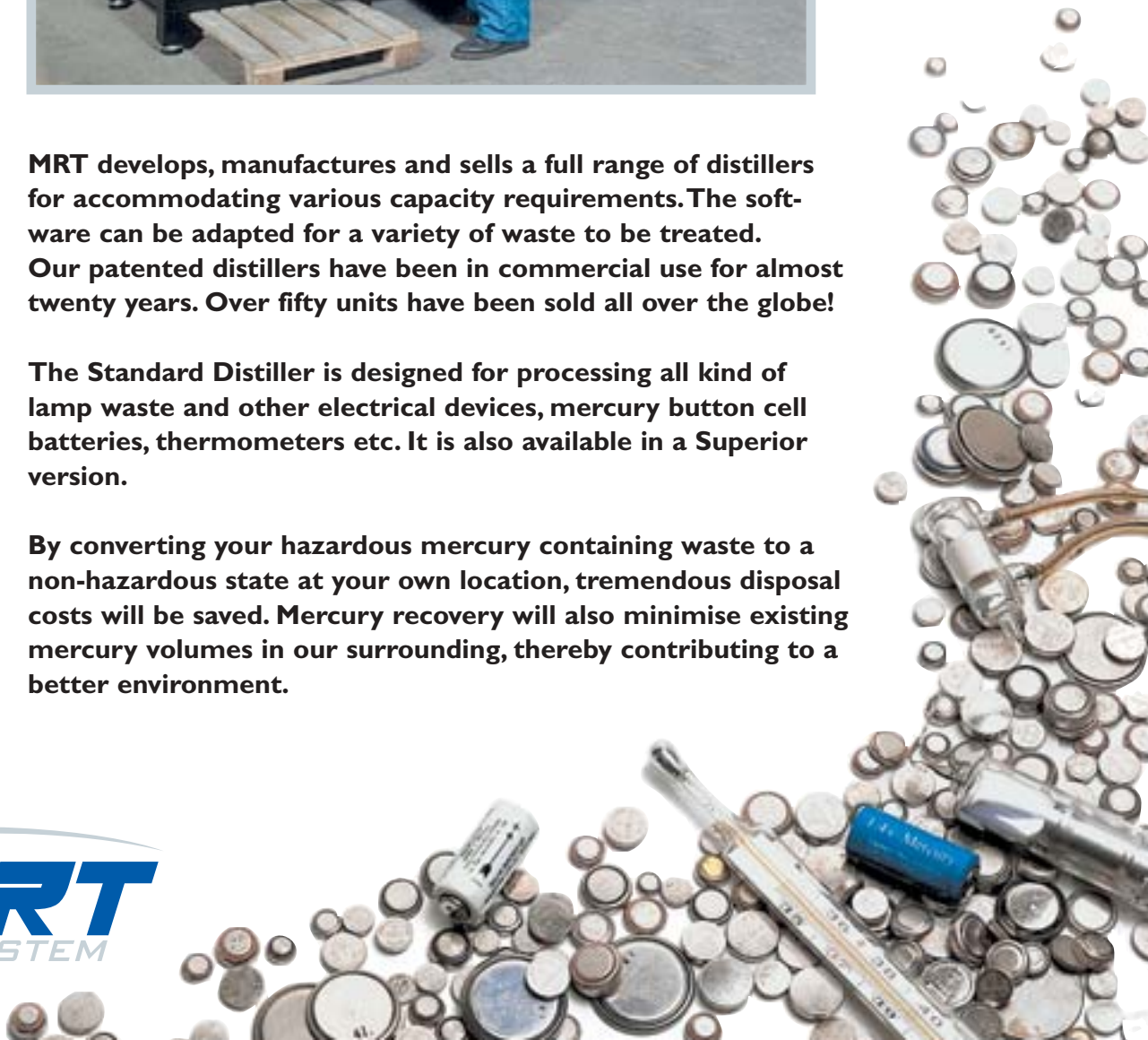
MRT STANDARD AND SUPERIOR DISTILLERS



MRT develops, manufactures and sells a full range of distillers for accommodating various capacity requirements. The software can be adapted for a variety of waste to be treated. Our patented distillers have been in commercial use for almost twenty years. Over fifty units have been sold all over the globe!

The Standard Distiller is designed for processing all kind of lamp waste and other electrical devices, mercury button cell batteries, thermometers etc. It is also available in a Superior version.

By converting your hazardous mercury containing waste to a non-hazardous state at your own location, tremendous disposal costs will be saved. Mercury recovery will also minimise existing mercury volumes in our surrounding, thereby contributing to a better environment.



MRT STANDARD AND SUPERIOR DISTILLER FEATURES



◀ The patented **MRT Standard Distiller** works in the following way: A batch of mercury bearing waste, such as button cells, electrical devices, lamp waste etc, is placed in the vacuum chamber. When the appropriate program is selected, the waste material is treated in a fully automatic process, making it extremely safe and efficient. Heat is applied, causing the mercury to vaporize. The organic particles carried by the gases are oxidized in the post combustion chamber, prior to entering the highly efficient cooling traps, where the mercury condenses into free flowing liquid mercury. Both the degree of recovery and the purity of the mercury can reach 99,99 percent or more when treating waste products with high mercury concentrations.

The MRT Superior Distiller processes the same type of discarded products as above. Additionally, it is able to process heavily contaminated mercury waste, having a higher content of organic substances e.g. mercury zinc batteries, dental amalgam, medical waste, sludge and other waste from the military and chemical industry. It is equipped with a larger post combustion chamber and a back-up safety vacuum system. The control cabinet, with optional monitor, can be detached from the distiller main unit.



◀ The distillers are easily operated and incorporate many safety precautions and alarm functions, preventing the risk of human error.

▼ The access for servicing is exceptionally good and the annual maintenance costs are minimal.

TECHNICAL DATA

Capacity varies depending on type of waste to be processed.

Example:

°Standard Distiller: Lamp waste 100 l/batch, 10-16 hour process time

*Superior Distiller: Batteries/dental waste up to 400 kgs/batch, 16-24 hour process time

PERFORMANCE Hg purity: Average 99,99%
Hg residue value: Max 0,1 mg/l, Average 0,001 mg/l
Degree of recovery: Average >99,99%
Hg emission: Max 0,020 mg/m³ Average >0,0005 mg/m³
Exhaust flow in stack: Max 250 m³/h

DIMENSIONS Length: 2990 mm. Width: 1580 mm
Height: 2600 mm, tpt. Installed 3800 mm, incl. lifting device.

CONSUMPTION Electrical: °Max 30 kW *Max 35 kW
Connections: According to country standard
Compressed air: °Max 250 m³/batch *Max 300 m³/batch
Oxygen (approximately): °10 m³/batch *10-15 m³/batch
Nitrogen: °5-7,5 m³/batch *7,5-10 m³/batch

We reserve the right to change technical data without notice.



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