



ECO WASTE SOLUTIONS

Clean Burning Solutions Product Spotlight

CA Model

technical description

Two Stage Process: 1st stage (Primary Burner) burns waste and produces inert ash and combustible gases. 2nd stage Afterburner (Secondary Chamber) combusts off-gases to eliminate smoke and minimize contaminants.

Cycle Time: Burn cycle of 2-6 hours per batch depending on waste type and density. Followed by a 1-2 hour cool down. Average total cycle length is 5 hours.

Controls: Integrated control panel with programmable logic control, supervisory control, monitoring, data acquisition and remote diagnostic capability. PC computer workstation optional.

Operating Environment: Inside a building or protected from the weather. Weatherproofing options available.

Other Options: Air Pollution Control System (APCS) - Scrubber, Continuous Emissions Monitoring System (CEMS).

Warranty: 1 year after start-up on defective parts or workmanship.

technical specifications

External Casing/Finish: 1/4" (0.6 cm) mild steel, sandblasted and coated with rust inhibiting and heat resistant paint.

Burners: Electronic auto spark, packaged industrial burners, secondary burners modulate.

Fuel Supply Options: Diesel, Fuel Oil, JP8, Natural Gas, Arctic Diesel, Propane. Auxiliary waste oil burners can be added.

Operating Temperature:

Primary Chamber: 1200°F (650°C) - 1560°F (850°C)

Afterburner: 1832°F (1000°C), with a 2 second retention time.

Power: Typically 3 phase, 120/208 V, 60 Hz. Other power supply options available.

advantages

- Available in 3 standard sizes
- Compact format
- Easily transportable
- Reduces waste volumes by over 90%

- Smokeless and odourless
- Automatic process control
- Low operating and maintenance costs



acceptable waste streams

Community Waste
Camp Waste
Biomedical Waste



capacities

Model		CA-50	CA-100	CA-600
Waste Capacity	Domestic Waste* lbs/batch	200	400	750
	Biomedical Waste** lbs/batch	120	240	450

*Based on typical solid waste densities.

**Based on typical biomedical waste densities.





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Batch Feed Systems

EWS offers 2 configurations of controlled air batch incinerators. The largest format fixed facility is the ECO Model. It is custom sized and can process up to 10 tonnes per day. By contrast, the smaller CA Model is offered in 3 standard sizes designed to process as little as 100 kg per batch and may be operated intermittently over a 24 hour period.

EWS has the experience and the expertise to solve a range of site-specific waste management issues. Our team of engineers will consult with your project managers to size and engineer a solution that best addresses your waste needs.

The **ECO Model** is a custom-sized waste disposal system processing from 1 to 10 tonnes per day. The ECO Model features one or two large Primary Chambers that can accommodate unsorted waste including large bulky items.

The ECO Model operates in a one-batch-per-day fashion. The burn cycle is generally 8 to 12 hours followed by a 6 to 10 hour cool down. The complete process, including time for loading and ash removal, takes place over 24 hours. This model can be outfitted with various options to automate waste loading.



This model has an extremely low labour requirement as the Operator only interfaces with the equipment once a day. Once the ash residual from the previous day's waste is removed, the operator loads the entire batch to the system (the chamber is cold and not active). The process of ash removal and waste loading takes less than 1 hour for most configurations.



The **CA Model** is similar to the ECO Model in function; however, it has a smaller footprint. The Secondary Chamber is stacked on top of the Primary Chamber to save space. This unit has the same rugged construction and all of the advanced features of the ECO Model. The CA Model is suited for smaller volumes of waste generated at a remote site such as an exploration camp or a seasonal project site. It is available in three standard sizes.



This unit is manually loaded and has short batch times of 2 to 6 hours (depending on waste type). It is capable of processing multiple batches in a 24 hour period.

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