



CF Model

technical **description**

Two Stage Process: Two Stage Process: 1st stage (Primary Chamber) operates with precisely controlled temperature and oxygen levels. Flue gas recirculation is also available. Within the chamber, waste moves slowly along the stepped hearth as it is pushed by a series of rams. Waste is transformed into a gas that is fully combusted in the Secondary Chamber.

Cycle Time: 24/7 continuous system operation. Waste is fed ~ every 8 - 20 minutes and waste requires ~ 6 hours to move through the Primary Chamber to reach complete combustion.

Controls: The operator Control Center controls all of the interconnecting modules. The Operator has one simple interface to start the equipment, view system status and change control settings if required. The system utilizes a PLC (programmable logic controller) to automate its functions. Critical process parameters such as temperature, combustion airflow, and burner output are operated using EWS' patented system control program to maintain optimal combustion.

technical **specifications**

Waste Feed: Solid waste is fed into a waste hopper and then charged into the primary chamber using a ram-type feeder.

Bottom Ash Residual Removal: Automated options include wet ash drag systems and belt conveyors.

Integrated Features: Air Pollution Control Systems (APCS) Continuous Emission Monitoring System (CEMS), and Energy Recovery – Steam, power, hot water, hot air.

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

External Casing/Finish: ¼" (0.6 cm) mild steel, sandblasted and coated with rust inhibiting and heat resistant paint.

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

Operating Temperatures: Primary Chamber: 1000°C (1832 °F). Secondary Chamber: sized to retain the incoming gases for a minimum of 1 second at 1000°C (1832 °F).

advantages

- ❑ Community scaled capacities sized to meet your needs
- ❑ Modular design provides equipment redundancy for maintenance and repair with minimal down time
- ❑ Waste capacities from 50 to 500 tonnes/day
- ❑ Designed to meet any required emission regulation
- ❑ Automated process control
- ❑ Robust, long-equipment life
- ❑ Waste volumes reduced by over 90%



acceptable **waste streams**

Community Waste
Commingled Biomedical, Pharmaceutical, Narcotics

capacities

Standard CF Models	MSW Capacity
CF 2000	2000 kg/hour ~ 50 tonnes/day
CF 4000	4000 kg/hour ~ 100 tonnes/day

- ❑ Custom sized models available
- ❑ Multiple lines can be combined into one plant

