



ECO WASTE SOLUTIONS

Clean Burning Solutions **Product Spotlight**

Flash Furnace

technical **description**

Eco Waste Solutions (EWS) Flash Furnace (EFF) is designed for thermal decontamination of scrap metal from Munition Scrap (MS) recovered from range clearance operations and Small Arms Ammunition (SAA) casings. The EFF is proven technology that removes the explosive residue in an environmentally friendly manner.

Process Description: The system maintains an operating temperature of 649-760°C (1200-1400°F). At these operating temperatures with heat exposure of 25-35 minutes, energetics and hazardous residues remaining on materials will be burned off, rendering the now material scrap metals safe for recycling at the completion of the cycle.

Controls: One main control panel controls the Flash Furnace and any other interconnecting modules such as Air Pollution Control Devices or Continuous Emissions Monitoring Systems (if installed). The Operator has one simple interface to start the equipment, view system status and process conditions. The system utilizes a PLC (programmable logic controller) to automate its functions. Critical process parameters such as temperature, airflow, burner output are operated using EWS' patented system control program to maintain optimal conditions.

Loading: Full access to the EFF chamber interior via large front door: sliding or hinged options. Burn cages can be loaded for processing and removed from the system using any appropriate fork-equipped vehicle.

technical **specifications**

Heating Cycle Time: Total processing time, including heat-up time, is 60-90 minutes depending on size of load and materials to be processed. Average Heat Exposure time is 30 minutes for total cycle time of 60 minutes.

External Casing/Finish: Heavy gauge steel shell for longer equipment life. 1/4" (0.6 cm) mild steel sandblasted and coated with rust inhibiting and heat resistant paint.

Internal Lining: Range of high temperature refractory insulation materials available.

Burners: Safe and reliable packaged burners complete with CSA/FM/UL compliant Valve Train.

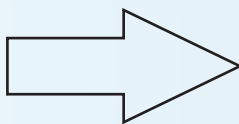
Fuel Supply: Choose from - Propane, Natural Gas, Diesel, JP8/JP5. Auxiliary waste oil burners can be added.

Power Requirements: Project specific - generally requires a power supply with the highest available 3 phase power 460/480V, 575/600V.

Accessories: Burn cages available in a range of sizes and specifications.

advantages

Fixed or Transportable Models
Highly Controlled Process
Automated Control System
Robust Materials of Construction



Brings the solution to the point-of-need
Ensures thorough decontamination
No need for dedicated Operator attendance
Long equipment life



configurations

□ **Mobile Flash Furnace**

Transportable or trailer-mounted versions allow for processing materials at the point-of-need.

□ **Fixed Installation**

Custom-sized packages suitable for a range of processing rates.

