



# Liquid Waste Oxidizer

## technical **description**

**General:** The Liquid Waste Oxidizer is a safe and proven system for the combustion of flammable liquid waste. Designed for on-site use, the Liquid Waste Oxidizer is highly efficient and environmentally sound.

**Atomization and Combustion:** Liquid waste is mixed with compressed air and then introduced directly into the combustion chamber via an atomizing gun at 1832°F (1000°C).

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

**Operations:** Stand alone can operate 24 hours per day. Combination systems can operate up to 10 hours per day.

## technical **specifications**

**Typical Major Components:** Combustion chamber with burner and blower, stainless steel liquid metering tank, mixer, liquid heater, pump, filters, piping and combustor gun and controls.

**Throughput:** System can process liquid wastes at a rate of 5-35 U.S.GPH (19-133 LPH).

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

**Fuel Supply Options:** Diesel, Fuel Oil, JP8, Natural Gas, Arctic Diesel, Propane.

**Operating Temperature:** Liquid combustion chamber operates at 1832°F (1000°C) with a 1 to 2 second retention time.

**Power:** Project specific. Requires highest available 3 phase voltage power supply, typically 460-575 V.

## advantages

- Small equipment footprint
- Simple automated operation
- Modern in control panel allows for diagnostic troubleshooting
- Limited moving parts minimizes maintenance costs



## acceptable **waste streams**

Motor Oils  
Transmission Fluids  
Glycols

Hydraulic Fluids  
Lubricating Oils  
Solvents

## configurations

- Combination Solid / Liquid System:**  
Allows the operator to process liquid and solid waste streams simultaneously, or independently.
- Stand Alone Liquid System:**  
Designed for the destruction of liquid waste only.

