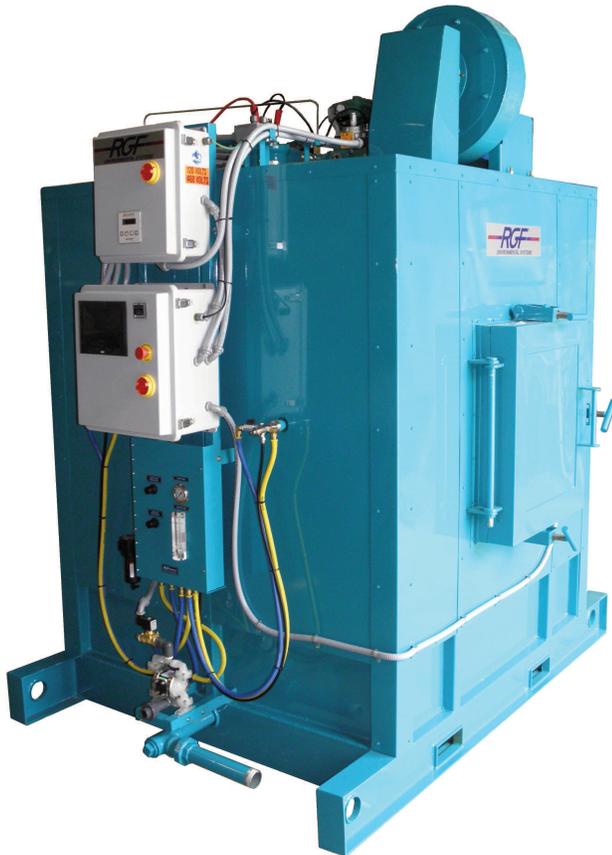


RGF's Advanced System for **Dry Chamber Flash Evaporation by Thermo-Oxidation** for Complete (100%) Elimination of Wastewater and Waste Oil...



United States Patent # US 6,546,883B1

### Operation

The **RGF Thermo-Oxidizer** is controlled by a combination PLC and UL approved microprocessor based Flame Safeguard Controller. Visual confirmation of the Thermo-Oxidizer status is provided by LCD displays, indicator lights, and digital temperature displays. The stainless steel burner nozzle provides the energy necessary for the waste water evaporation. A pump pressurizes the wastewater for injection into the air atomization nozzles. The waste water stream is thereby atomized directly into the combustion chamber where it is completely evaporated.

### Applications

Thermo-Oxidizer is designed for Waste Disposal Applications such as ...

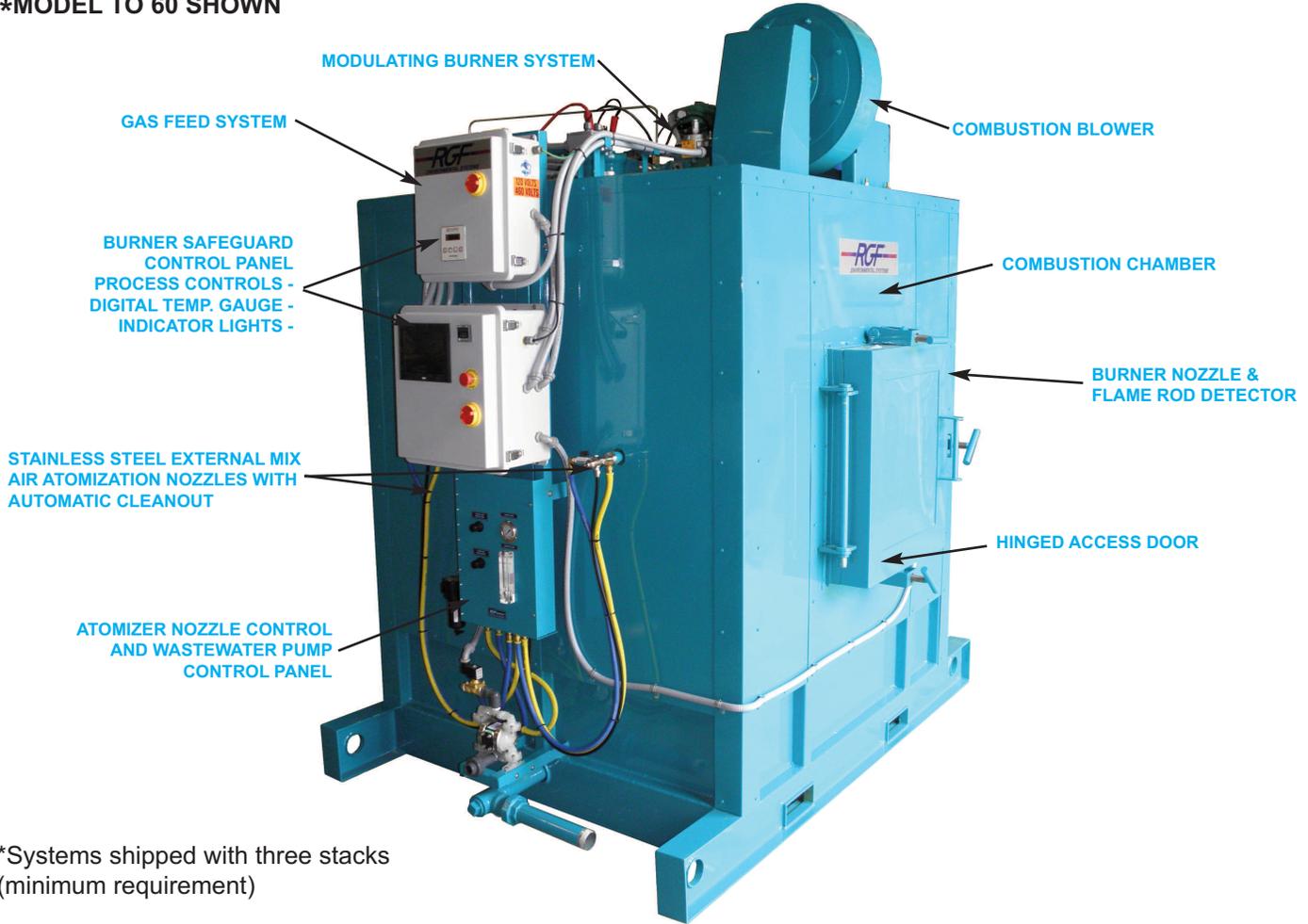
Petroleum Hydrocarbon Waste	Printed Circuit Board Waste
Die Casting	Tanker Cleaning
Alkaline Cleaners	Floor Scrubber Water
Machinery Coolants	Plating Solutions
Compressor Wastes	Textiles
Ink and Paint Waste	Heavy Equipment
Tumbling Solutions	Food Processing
Waste Haulers	Manufacturing Processes
Process Wastewater	

### Advantages

- RGF is the Recognized Leader with thousands of systems installed world wide since 1985.
- Multiple safety system controls.
- Handles a wide range of waste.
- Pre-wired, fully automatic, versatile, and easy to use.
- Free Water and Operating Cost Analysis.
- Operates on natural gas and liquid propane gas. The system can be configured to use no. 2 fuel oil or waste oil with optional waste oil burner.
- Easiest system on the market to clean, waste is dry ash.
- UL-508A Panel Shop Certified.
- Meets stringent NFPA86 Fire Safety Code requirements.
- Will eliminate disposal cost and/or sewer discharge.
- Low operating cost.
- Low Maintenance.
- Fully automatic, easy-to-use, versatile.
- Meets National Electric Code for indoor maintenance facilities.
- Wetted surfaces are Non-Ferrous - eliminating rust and corrosion problems.
- State of the art computerized process and safety system.

# Thermo Oxidizer

**\*MODEL TO 60 SHOWN**



\*Systems shipped with three stacks (minimum requirement)

## SPECIFICATIONS

### TO-150

<b>DIMENSIONS - excluding stack</b>	6'Wx 10'-6"L x 8'-10"H	<b>COMBUSTION BLOWER MOTOR</b>	5 hp
<b>CHAMBER VOLUME</b>	118 Cubic Ft.	<b>AIR SUPPLY REQUIREMENTS</b>	43 SCFM @ 80-120 psi
<b>DISPOSAL RATE</b>	0 to 150 GPH	<b>OPERATING RANGE</b>	1,400° F
<b>ELECTRICAL REQUIREMENTS</b>	480 VAC 3 phase 15 amp, 110 volt, 15 amp	<b>BURNER SAFEGUARD CONTROL</b>	UL, CSA Listed, FM and IRI Approved
<b>WEIGHT (APPROX.)</b>	23,000 lbs.		NFPA 86 Rated
<b>CONSTRUCTION</b>	3/16" Steel Plate	<b>GAS PRESSURE</b>	2.0 psi
<b>*STACK HEIGHT FROM FLOOR</b>	19'-10"	<b>EXTERIOR FINISH</b>	High Temp. Two Part Polyurethane paint

### TO-60

<b>DIMENSIONS - excluding stack</b>	7'-6"W X 5'-5"D X 8'-10" H	<b>COMBUSTION BLOWER MOTOR</b>	3 h.p.
<b>CHAMBER VOLUME</b>	80 Cubic Ft.	<b>AIR SUPPLY REQUIREMENTS</b>	23 SCFM @ 80-120 PSI
<b>DISPOSAL RATE</b>	60 gph	<b>OPERATING RANGE</b>	1,400° F
<b>ELECTRICAL REQUIREMENTS</b>	220 VAC, 20 Amps, 1 or 3 phase	<b>BURNER SAFEGUARD CONTROL</b>	UL, CSA Listed, FM and IRI Approved
<b>WEIGHT (APPROX.)</b>	11,000 LBS.		NFPA 86 Rated
<b>CONSTRUCTION</b>	3/16" Steel Plate	<b>GAS PRESSURE</b>	1.5 psi
<b>*STACK HEIGHT FROM FLOOR</b>	19'- 6"	<b>EXTERIOR FINISH</b>	High Temp. Two Part Polyurethane paint

### TO-30

<b>DIMENSIONS - excluding stack</b>	5'-2"W X 7'-2"D X 7'-10" H	<b>COMBUSTION BLOWER MOTOR</b>	1/2 h.p.
<b>CHAMBER VOLUME</b>	58 Cubic Ft.	<b>AIR SUPPLY REQUIREMENTS</b>	12 SCFM @ 80-120 PSI
<b>DISPOSAL RATE</b>	30 gph	<b>OPERATING RANGE</b>	1,400° F
<b>ELECTRICAL REQUIREMENTS</b>	110 VAC, 20 Amps, 1 phase	<b>BURNER SAFEGUARD CONTROL</b>	UL, CSA Listed, FM and IRI Approved
<b>WEIGHT (APPROX.)</b>	9,000 LBS.		NFPA 86 Rated
<b>CONSTRUCTION</b>	3/16" Steel Plate	<b>GAS PRESSURE</b>	1.5 psi
<b>*STACK HEIGHT FROM FLOOR</b>	18'- 6"	<b>EXTERIOR FINISH</b>	High Temp. Two Part Polyurethane paint

MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES WITHOUT NOTICE.

**RGF Environmental Group, Inc.**

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