



Geolinks
FOR BETTER ENVIRONMENT

GT MEDICAL WASTE INCINERATOR



CONSTRUCTION

The primary and secondary chamber are manufactured using 6mm mild steel plates. The primary chamber is fitted with an automatic burner, and equipped with a loading door, with seals and quick release clamps, and an easily accessible ash door. The secondary chamber is structurally similar, also fitted with an automatic burner for the burning of hazardous gasses, and a fly ash removal door.

The primary and secondary chambers are lined with high quality insulation bricks, fire-bricks and thermal insulation (glass wool), with a combined thickness of 250mm. The chambers can withstand temperatures up to 1400°C.

The cooling chamber is fitted with blowers and will decrease the temperature of the hot fumes leaving the secondary chamber. The cooling chamber is constructed using 6mm mild steel.



Geolinks medical waste high temperature incinerators are rectangular, free standing, modular package type units, constructed primarily of high quality mild steel.

BURNERS

Geolinks utilizes high-efficiency burners with electronic ignition, flame recognition, flame safety system, UV sensors and combustion control devices.

Made according to European quality standards. The burners may be Natural Gas fired, Diesel or LPG.



CONTROL PANEL

The control panel is an easy to navigate panel for operators. Primarily, the panel sets and monitors the temperatures of the primary and secondary chambers.

It houses the temperature controllers, motor starters or relays for fans, overload relays for burners, fuses, connection terminal, isolator switches, and fans and audio visual alarms (optional).



The GT50 with cooling chamber and SS Wet Scrubber. Made for the Combined Military Hospital (CMH) Malir Cannt.

INDUCED DRAFT FAN

The incineration process requires stable air supply.

Oxygen is fed into the primary chamber via vents in order to stimulate the firebed.

Air is also injected into the secondary chamber through the burner.

An induced draft (ID) Fan is provided to maintain a negative atmosphere in the chamber, provide additional cooling air to exhaust gases and to prevent accidents when the loading door is opened.

EMISSIONS CONTROL OPTIONS

WET SCRUBBER

The wet scrubber is an emissions control device which collects particulate matter and gaseous pollutants. The scrubber provides good contact between the liquid and polluted gas stream. The scrubber will remove dust particles and smoke by capturing them in liquid droplets.

The scrubber is fabricated using Stainless plates (SS 316L) with 5mm thickness.

BAG HOUSE

The bag house, or fabric filter is a highly efficient emissions control device which removes hazardous particulates and/or gasses released from the incineration process. Through various mechanisms, the fabric absorbs particulates and gasses and a dust cake is created on the fabric, which in turn increases its resistance to gas flow.

The bag house does not require any water or liquid to operate successfully.

TECHNICAL DATA SHEET

	GT-50	GT-100	GT-200
Primary Chamber Volume	2.0m ³	3.25m ³	6.5m ³
Burning Capacity	50Kg/hour	100Kg/hour	200Kg/hour
Type of Waste	Solid/Hospital/Medical Waste		
Calorific Value of Waste	3000Kcal/Kg	4000Kcal/Kg	
Primary Combustion Temperature	700 to 800 °C		
Secondary Combustion Temperature	900 to 1200 °C		
Residence Time	2.0 Seconds		
Refractory/Lining Thickness	200mm		
Refractory Withstand Temperature	1400 °C		
Combustion Principle Type	Pyrolysis and Oxidation		
Number of Burners	2	3	
Chimney Height	10 meters	15 meters	
Outside Surface Temperature	50 to 55 °C		
Weight of Incinerator	6000Kg	8000Kg	14000Kg
ELECTRICAL			
Electrical Supply	6KW	8KW	10KW
GAS			
Average Natural Gas Consumption	10m ³ /hr	15m ³ /hr	25m ³ /hr

*Weight and Natural Gas consumption may vary.

OUR RANGE

We are manufacturing 50kg/hour to 1000kg/hour Natural Gas/LPG/Diesel fired medical waste incinerators.

All incinerators come with a one year manufacturer's warranty.

All incinerators meet PEPA & NEQS standards.

*Fuel type is dependant on customers requirements.

*Note - all incinerators are manufactured by Geolinks Traders, a subsidiary of Geolinks (PVT) Ltd.

