



"YF-Series Medical Waste Incinerator"

Our Medical Waste Incinerator is a Critical Solution for Health and Environmental Safety;

Medical wastes are wastes generated by hospitals, clinics, laboratories and other health institutions operating in the health sector, which carry a risk of infection and can be harmful to the environment. These wastes can pose serious health and environmental risks if not disposed of properly and safely. Medical waste incinerators are important devices that ensure the safe and effective disposal of such wastes. Medical wastes are classified as hazardous wastes due to their nature and should be disposed of as soon as possible where they are generated. Infected waste can cause the spread of infectious diseases and environmental pollution. Therefore, it is vital that medical waste is disposed of safely and effectively. Our medical waste incinerator ensures that harmful microorganisms and toxic substances are neutralized by completely destroying these wastes through high temperature incineration.

Our medical waste incinerators are produced in various capacities and specifications. High operating temperatures ranging between 800-1200°C ensure complete combustion of the waste. Complete combustion is ensured with a minimum gas retention time of 2 seconds. A more efficient combustion process is realized with a double combustion chamber (primary and secondary). Stainless steel chimney provides durability and long life. Harmful gases are filtered with chimney washing system. It can operate with natural gas or fuel oil. Dual fuel operation can also be preferred. Waste can be loaded with manual or fully automatic feeding system. Reliable burner brands such as Ecoflam and Riello are used in our incinerator. Different burner brands can be used according to customer preference.

YF-Series Medical Waste Incinerator

Advantages;

Complete incineration of medical waste at high temperatures ensures the safe destruction of harmful microorganisms and toxic substances. With advanced gas cleaning systems, emissions are kept to a minimum and the environment is not harmed. The highly efficient incineration process ensures fast and efficient disposal of waste. Leaves less end product than other methods. There is no possibility of contamination of the final product and no risk of viruses or bacteria in the flue gas. It is produced using materials that are resistant to high temperatures and long-lasting. Our oven works reliably for long periods of time.



Low Noise

The robust and balanced structure minimizes vibrations for a quieter and more comfortable working environment.

Combustion Control System

Provides air supply and temperature control to optimize the combustion process. Primary and secondary air supply systems are available.

Safe Disposal

Complete incineration of medical waste at high temperatures ensures the destruction of harmful microorganisms and toxic substances.

Environmentally Friendly

With advanced gas cleaning systems, emissions are kept to a minimum and the environment is not harmed.

High Efficiency

The highly efficient incineration process ensures fast and efficient disposal of waste.

Amount of Waste Reduced

Leaves less end product than other methods. There is no possibility of contamination of the final product and no risk of viruses or bacteria in the flue gas.

Durability and Longevity

They are manufactured using materials that are resistant to high temperatures and have a long service life. This ensures reliable operation of the ovens for a long time.

Health and Environmental Safety

Safe disposal of hazardous waste minimizes environmental and health risks.

Technical Specifications

MODEL	CAPACITY (KG/S)	CHIMNEY WASHING	BRUULDER
YF-5T	5	+	ECOFLAM-RIELLO
YF-10T	10	+	ECOFLAM-RIELLO
YF-20T	20	+	ECOFLAM-RIELLO
YF-50T	50	+	ECOFLAM-RIELLO

YF-80T	80	+	ECOFLAM-RIELLO
YF-100T	100	+	ECOFLAM-RIELLO
YF-150T	150	+	ECOFLAM-RIELLO
YF-200T	200	+	ECOFLAM-RIELLO
YF-250T	250	+	ECOFLAM-RIELLO
YF-300T	300	+	ECOFLAM-RIELLO
YF-400T	400	+	ECOFLAM-RIELLO
YF-500T	500	+	ECOFLAM-RIELLO
YF-1000T	1000	+	ECOFLAM-RIELLO



Performance and Efficiency of YF-Series Medical Waste Incinerator;

Gas Retention Time

Full combustion is ensured with a minimum gas hold time of 2 seconds.

Combustion Chambers

A more efficient combustion process is realized with a double combustion chamber (primary and secondary).

Safe Disposal

Complete incineration of medical waste at high temperatures ensures the destruction of harmful microorganisms and toxic substances.

Environmentally Friendly

With advanced gas cleaning systems, emissions are kept to a minimum and the environment is not harmed.

YF-Series Medical Waste Incinerator Application Areas and Waste Types;

Our YF-Series medical waste incinerator has a wide range of applications. Used in healthcare organizations such as hospitals, clinics, laboratories and dentists, it also plays an important role in the disposal of industrial and municipal waste. During infection outbreaks, our medical waste incinerator is also a critical solution to prevent the spread of viral diseases such as COVID-19. The types of waste that can be disposed of in our YF-Series medical waste incinerator include infectious waste, medical waste, delivery room waste, expired medicines, operating room waste, biomedical waste, pathological waste and pharmacy waste. Needles, infusion sets, knives, glassware, anti-cancer chemotherapy materials, cytostatic drugs, genotoxic chemical waste, laboratory reagents, disinfectants and pharmaceutical waste can also be safely incinerated.

Chimney Washing Systems;

Our YF-Series Medical Waste Incinerator plays an important role in the safe disposal of medical waste. However, when our medical waste incinerator burns waste at high temperatures, harmful gases and particles are released. These emissions can pose serious threats to the environment and human health. Therefore, the use of chimney scrubber systems in our medical waste incinerator is critical for environmental and health safety. Our chimney washing systems are systems that purify the gases coming out of medical waste incinerators. They minimize emissions to the environment by

filtering harmful gases and particles generated during the incineration process. Chemically neutralize acidic gases (e.g. sulfur dioxide and hydrogen chloride). Reduces particle density in the atmosphere by capturing fine particles that can cause air pollution. Energy efficiency can be increased by optionally recovering heat from flue gases.

Wet Scrubbing Systems: Gases are brought into contact with a liquid washing solution. During this contact, harmful substances in the gases are dissolved in the solution and removed. High efficiency provides a wide range of gas and particle treatment.

Dry Scrubbing Systems: Gases are brought into contact with a solid adsorbent (e.g. activated carbon). During this contact, harmful substances are retained by the adsorbent. The advantages are lower water consumption, low maintenance and operating costs.

Semi-Dry Wash Systems: Gases are brought into contact with both liquid and solid treatment media. This method is a combination of wet and dry scrubbing systems.



Automatic Loading;

Our automatic loading systems ensure a continuous supply of medical waste to the incinerator. This guarantees uninterrupted operation of the incinerator and maximum efficient combustion. The medical waste is distributed homogeneously in the

incinerator. This ensures that the combustion process is more efficient and that all waste burns evenly. Provides a safe working environment by reducing direct contact of operators with medical waste during manual feeding. Our automated loading systems minimize the risk of operator exposure to hazardous waste. Manual feeding processes can be time consuming and labor intensive. Our automated loading systems speed up these processes, saving labor and allowing operators to attend to other important tasks.

Automatic Ash Discharge;

Our incinerator safely and efficiently processes medical waste, resulting in a large amount of ash. Regular and safe ash discharge is critical to the efficient operation of the incinerator and operator safety. Our automated ash discharge systems automate this process, improving efficiency and safety.

OPTIONAL FEATURES

- Pre-shredding Machine
- Heat Recovery System
- Automatic Loading
- Automatic Ash Discharge
- Dry Chimney Washing System
- Semi-Dry Chimney Flushing System
- Gas Filtration System
- Emission Monitoring System
- Production in Different Capacities
- Different Brand Burners



FREQUENTLY ASKED QUESTIONS (FAQ)

WHAT IS A MEDICAL WASTE INCINERATOR?

A medical waste incinerator is a device that enables the disposal of medical waste from hospitals, clinics, laboratories and other health institutions that carry the risk of infection and may be harmful to the environment by burning at high temperatures.

HOW DO MEDICAL WASTE INCINERATORS WORK?

Medical waste is loaded into the incinerator and burned in the combustion chamber at high temperatures. During this process, harmful microorganisms and toxic substances are completely destroyed. Emissions are kept to a minimum thanks to advanced gas cleaning systems.

WHAT TYPES OF WASTE CAN MEDICAL WASTE INCINERATORS BURN?

Infectious wastes, medical wastes, delivery room wastes, expired drugs, operating room wastes, biomedical wastes, pathological wastes, pharmacy wastes, needles, infusion sets, knives, glassware, anti-cancer chemotherapy materials, cytostatic drugs, genotoxic chemical wastes, laboratory reagents, disinfectants and pharmaceutical wastes

WHAT IS THE TEMPERATURE RANGE OF MEDICAL WASTE INCINERATORS?

Medical waste incinerators generally operate between 800-1200°C. These high temperatures ensure complete combustion of the waste and the destruction of harmful microorganisms.

HOW DO GAS CLEANING SYSTEMS WORK IN MEDICAL WASTE INCINERATORS?

Gas cleaning systems filter harmful gases and particles produced during combustion, keeping emissions to a minimum. Different methods can be used, such as wet, dry and semi-dry washing systems.

WHAT IS THE CAPACITY OF MEDICAL WASTE INCINERATORS?

The capacity of medical waste incinerators varies according to the model. For example, the capacity of YF series ovens varies between 5 kg/hour and 1000 kg/hour.

WHAT IS THE AUTOMATIC LOADING SYSTEM AND HOW DOES IT WORK?

The automatic loading system ensures that medical waste is continuously fed into the incinerator. This system guarantees a homogeneous distribution of the waste and the efficiency of the combustion process. It also increases safety by reducing operators' direct contact with hazardous waste.

WHAT IS AN AUTOMATIC ASH DISCHARGE SYSTEM AND HOW DOES IT WORK?

The automatic ash discharge system ensures that the ash produced by the combustion process is discharged regularly and safely. This system improves the efficient operation of the furnace and operator safety.

DO MEDICAL WASTE INCINERATORS HARM THE ENVIRONMENT?

Medical waste incinerators keep emissions to a minimum and ensure safe disposal of waste without harming the environment thanks to advanced gas cleaning systems. These systems prevent the release of harmful gases and particles into the environment.

HOW TO MAINTAIN MEDICAL WASTE INCINERATORS?

The furnace should be checked and maintained regularly. The furnace and chimney systems must be cleaned regularly. Worn or damaged parts must be replaced in a timely manner. Gas cleaning systems require regular maintenance and cleaning to ensure effective operation.

WHICH BRAND BURNERS ARE USED IN MEDICAL WASTE INCINERATORS?

Reliable burner brands such as Ecoflam and Riello are generally used in medical waste incinerators. Different burner brands can also be used according to customer preference.

ARE MEDICAL WASTE INCINERATORS AVAILABLE IN DIFFERENT CAPACITIES?

Yes, medical waste incinerators are produced in different capacities. YF series incinerators are available in capacities ranging from 5 kg/h to 1000 kg/h.

WHICH STANDARDS ARE MEDICAL WASTE INCINERATORS MANUFACTURED IN ACCORDANCE WITH?

Medical waste incinerators are manufactured in accordance with national and international environmental and health safety standards. These standards set requirements for emission control, safe disposal and environmental protection.