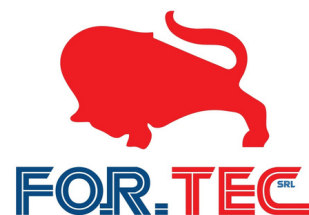


Discover our:

# HOSPITAL/INDUSTRIAL WASTE INCINERATOR MOD. EXCE OS



Simplicity and technology, finally together.



The EXCE range features furnaces that are robust and easy to operate, yet equipped with advanced technology to ensure waste is destroyed in the safest, most efficient and controlled way.

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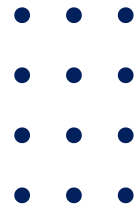


[www.fortec-inceneritori.it](http://www.fortec-inceneritori.it)



**FORTEC** is an Italian company with **over 50 years of experience** in solutions for thermal waste treatment, cremation, and the controlled management of thermal processes. We design and **manufacture every key component in-house**, from steel structures and refractory linings to electrical panels and control systems, an advantage that ensures a **truly Made in Italy product**, full control over quality and lead times, and more effective customer support.

Each plant is developed to customer specifications, tested before delivery, and supported by dedicated sales teams for both the Italian and export markets. We also have a technical team that supports customers during **on-site commissioning worldwide**, along with a **remote assistance system** that bridges distances, enabling rapid interventions and expert support directly from our headquarters.



# EXCE OS



Incinerator for:  
**MEDICAL AND  
GENERAL WASTE**



## TECHNOLOGY

Thanks to the FORTEC VOYAll microprocessor management system, the cycle is completely controlled and automated.



## DESIGN

The Exce OS ovens are designed for the quick, simple and safe incineration of waste with medium-high PCI.



## ENVIRONMENT

The conformation of the chambers ensures perfect distribution of heat inside them and full compliance with the operating parameters in post-combustion, which are imposed by Directive 2000/76/EC

The coming together of the high technological level, which is typical of For.Tec products and the specific requests of our customers all over the world, gives birth to the range of Exce OS incinerators, whose greatest strengths are reliability, sturdiness, durability, excellent quality-price ratio.

The **Exce OS** ovens are designed for the quick, simple and safe incineration of waste with medium-high PCI, such as, for example, hospital and pharmaceutical waste, industrial waste, urban waste and waste deriving from resorts, communities, large collection centers.

The volumes of the loading chambers of the Exce OS systems, which vary from 0.4 to 10 m<sup>3</sup>, adapt to the needs of each type of application, the simple and compact design allows for easy use, while the great attention paid to the materials used in their manufacture makes them solid and extremely resistant products: the insulation of the chambers is made with a first layer of calcium silicate panels having a high insulating coefficient and a second layer of refractory concrete having a high concentration of Al<sub>2</sub>O<sub>3</sub>, which is resistant to temperatures over 1600°C; the covering of the loading door is made of HT-Z ceramic fiber, highly resistant to thermal shock, fixed by means of stainless steel hooks.

**The Exce OS incinerators are versatile and customizable thanks to a complete range of optional equipments, thus satisfying the specific needs of each customer. It is possible to choose from the following options:**

- Automated loading systems, with hydraulic piston, tilting or conveyor roller, which allow the handling of waste in complete safety and considerable fuel economy.
- Systems for heat recovery and for the production of domestic hot water or steam, which can be reused in your business.
- Detailed systems for the purification of fumes from the incineration process, designed according to the specific needs of the place of installation, which allow you to pay due attention to the environment.
- Installation on trailers or inside containers, which makes the systems mobile and therefore perfect for reaching the most remote areas, field hospitals, military bases and countries affected by sudden epidemics.

The mission of For.Tec. in making its products Eco-friendly, it achieves great results in the world of Exce OS incinerators: the conformation of the chambers, studied through the use of latest generation thermo-fluid dynamics simulation software, ensures perfect heat distribution within them and full compliance with the afterburning operating parameters, imposed by Directive 2000/76 / EC, such as:

- **Minimum operating temperature: 860/1100°C**
- **Gas residence time: > 2 "**
- **Free O2 content: >6%**



In the incineration chamber the waste burns at high temperatures (over 1000°C) in order to eliminate any trace of pollutant in it and in such a way as to obtain, at the end of the incineration cycle, inertized ashes. The effluent gases from the incineration chamber flow into the post-combustion chamber by means of a calibrated duct and are treated here at a temperature of <850°C/<1100°C to carry out their complete oxidation, eliminating the VOCs and inhibiting the process of formation of dioxins and furans. Further washing of the fumes is possible through the optional installation of the Wet Scrubber which guarantees an excellent reduction of water-soluble substances such as HCL, HF and SO2.

# EXCE OS