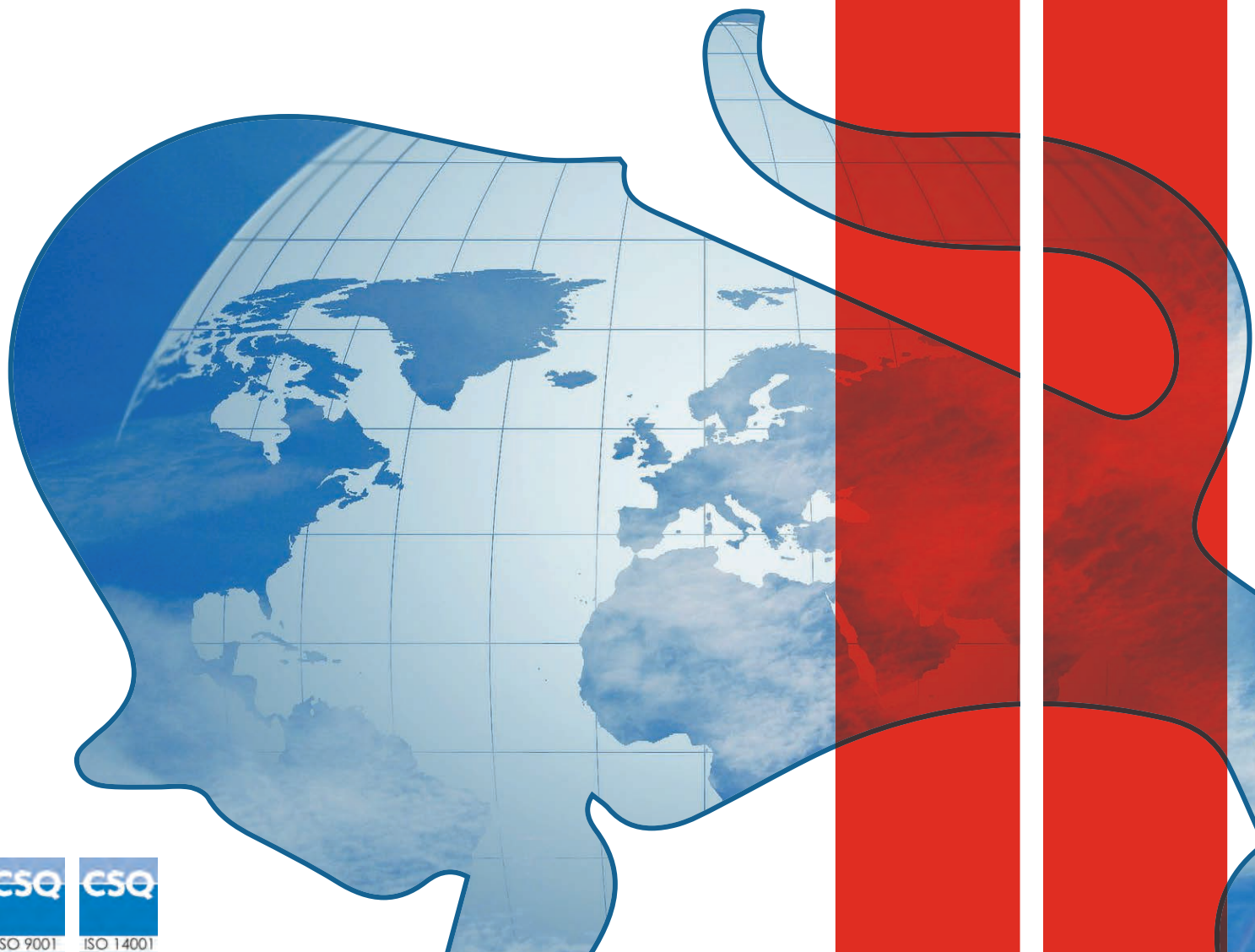


**FOR.TEC**<sup>SRL</sup>

# INCINERATORS MANUFACTURER

TECHNOLOGY AT THE SERVICE OF THE ENVIRONMENT



# COMPANY PROFILE

**For.Tec. Forniture Tecnologiche S.r.l.** is an Italian Company with 40 years of experience designing, manufacturing, selling and installing high-tech ecologic plants: our daily efforts, researches, studies and tests are directed towards the development of perfect solutions to all the problems arising from waste management.

Thanks to detailed engineering studies and skilled technicians' collaboration, we can offer a full range of incinerators for almost every type of waste, sophisticated crematories and new concept industrial ovens.

**The company comprises 2000 m2 production indoor area and more than 5000 m2 outdoor area and it is divided into departments as follows:**

- **GENERAL DIRECTION**

- **ADMINISTRATIVE DEPARTMENT**

- **SALES DEPARTMENT:** specialized sellers in incineration field give customers answers to all their doubts, they are ready to advise the most proper model of incinerator according to demand, they manage after-sales service and remote assistance. This department has a very efficient Export Office which handles an extensive dealer network and exports For.Tec. products in many Countries worldwide.

- **ENGINEERING DEPARTMENT:** a close-knit team of engineers and architects daily performs, with great professionalism, analysis of customers' specifications, feasibility studies, customized designs and tests; thanks to the collaboration with the Department of Civil and Mechanical Engineering of University of Cassino and Southern Lazio, we constantly develop new technologies to improve waste treatment solutions.

- **PRODUCTION DEPARTMENT:** skilled and experienced technicians implement projects and build up our incinerators and equipments with great attention to details, ensuring high level of security, high quality and shortest delivery times.



## We strive to fulfill each customer's needs:

we give the chance to **customize plants** with many optional equipments, such as automatic loading and deashing systems, wet scrubbers, dry deputation systems, heat recovery systems for hot water/hot-cold air/steam production and pollution control systems.

Our products are all fully CE Certified, our quality is **100% Made in Italy** and our incinerators are manufactured in compliance with the most restrictive construction, health and safety and environmental regulations.



The strengthening presence on the market of For.Tec. waste incinerators, corpses crematories, pet crematories and ecologic systems is an indispensable goal towards which all the efforts and best resources of the Company are continually directed.

In this perspective, For.Tec. Srl considers quality as a key strategic tool for the supply of products and services of absolute and certified reliability, efficiency and safety, in order to meet the Company's priority objective, namely customer's satisfaction.

The acknowledgment of our commitment to the quality research of our products has been awarded with the issuance of **International Quality Certifications**:



- ISO 9001:2015 – IQNET
- ISO 14001:2015 – IQNET
- EN ISO 15614-1 A (Lloyd's Register)
- EN ISO 15614-1 B (Lloyd's Register)
- EN ISO 9606-1 A (Lloyd's Register)
- EN ISO 9606-1 G (Lloyd's Register)



# 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:

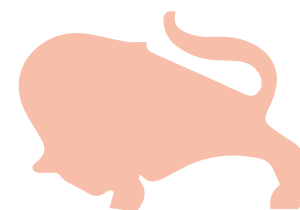
- **Minimum operating temperature: 860/1100°C**
- **Gas residence time: > 2 "**
- **Free O2 content: >6%**



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

# OVENS TABLES



## ECOTEC

	U.M.	550	1500	2500	5000	6000 multi	8000	10000	12000 multi	15000 multi
Volume	mc	0,55	1,5	2,5	5	6	8	10	12	15
Burning capacity	kg/h	≤ 40	≤ 100	≤ 150	≤ 300	≤ 400	≤ 450	≤ 500	≤ 750	≤ 850
Loading capacity	kg/cycle	70	200	300	600	Only continuous loading	1000	1250	Only continuous loading	Only continuous loading

\* Only indicative and non-binding data, they may change, also significantly, according to the exact composition of the loaded waste

## EXCE OS

	U.M.	4	8	12	25	35	50	100
Volume	mc	0,4	0,8	1,2	2,5	3,5	5	10
Burning capacity	kg/h	≤ 25	≤ 50	≤ 100	≤ 200	≤ 250	≤ 300	≤ 500
Loading capacity	kg/cycle	60	120	180	375	525	750	1500

\* Only indicative and non-binding data, they may change, also significantly, according to the exact composition of the loaded waste

## ROTOMAC

	U.M.	1000	1500	2500	4000	6000	12000	15000	18000
Volume	mc	0,9	1,5	2,5	4	6	12	15	18
Burning capacity	Kg/h	≤ 100	≤ 150	≤ 200	≤ 350	≤ 500	≤ 650	≤ 750	≤ 1000
Loading capacity	Kg/cycle	200/350	300/500	500/900	850/1500	1350/2500	Continuous	Continuous	Continuous

\* Only indicative and non-binding data, they may change, also significantly, according to the exact composition of the loaded waste

## EXCE AN

	U.M.	4	8	12	25	35	50	100
Volume	mc	0,4	0,8	1,2	2,5	3,5	5	10
Burning capacity	kg/h	≤ 50	≤ 100	≤ 150	≤ 250	≤ 300	≤ 350	≤ 500
Loading capacity	kg/cycle	≤ 120	≤ 240	≤ 360	≤ 750	≤ 1050	≤ 1500	≤ 3000

\* Only indicative and non-binding data, they may change, also significantly, according to the exact composition of the loaded waste

## T-BULL

Incineration chamber volume	m <sup>3</sup>	12,17	Maximum potential of incineration burners	Kw	190 x 6
Loading volume in incineration chamber	m <sup>3</sup>	7,30	Post-combustion chamber burners	no.	2
Burning Capacity	Kg/h	up to 1000*	Maximum potential of post-combustion burners	Kw	319 x 2
Door's opening dimensions	mm	3900 x 1920	Indicative consumption of Diesel	l/h	60
Incineration chamber's dimensions	mm	3900 (Length) 1920 (Width) 1550 (Height 1) 1700 (Height 2)	Electric consumption	kW	2
Incineration chamber burners	no.	6	Power supply	Type	230v 50Hz
			Total weight	Tons	21

## FD 4.0

	U.M.	4.0
Volume	mc	0,80
Burning capacity	kg/h	<50 (classified as a low-capacity installation)
Loading capacity	kg/cycle	≤150
Fuel	type	Diesel/Natural gas/Lpg
Maximum total power of installed burners	Kw	490 (vers. Diesel) 475 (vers. Natural gas/Lpg)
Reference Standards	-	Regulation EU 142/2011 and Regulation EU 1069/2009

\* Only indicative and non-binding data, they may change, also significantly, according to the exact composition of the loaded waste

## FIDO 550

	U.M.	550
Volume	mc	0,57
Burning capacity	kg/h	≤40 (classified as a low-capacity installation)
Loading capacity	kg/cycle	120
Fuel	type	Diesel/Natural gas/Lpg
Maximum total power of installed burners	Kw	380 (vers. Diesel) 350 (vers. Natural gas/Lpg)
Reference Standards	-	Regulation EU 142/2011 and Regulation EU 1069/2009

\* Only indicative and non-binding data, they may change, also significantly, according to the exact composition of the loaded waste

## TR PYROLYTIC

	U.M.	2000 OR	5000 OR	12000 OR	20000 OR	2000 VR	5000 VR	8000 VR	12000 VR
Useful Volume	Mc	2	5,3	12,1	20,7	2,1	5,5	7,6	12
Internal Dimensions HxWxL	mm	1000 2000 1000	1400 2400 1600	1600 3600 2100	2000 4500 2300	1200 1200 1400	1300 2000 2100	1500 2200 2300	2000 2400 2500
Paint treatment capacity	kg/h	15	35	50	80	15	35	40	55
Loading capacity	Kg	320	550	700	850	320	550	650	700

\* Only indicative and non-binding data, they may change, also significantly, according to the exact composition of the loaded material



Hundreds of customers in the world have chosen our ovens!

## CUSTOMIZED SERVICES

- Feasibility studies
- Functional Layout
- Thermo fluid dynamics CFD simulations
- Assistance with authorization procedures
- Scheduled maintenance
- Remote assistance

## QUALITY



Certified Company  
Management System  
**ISO 9001:2015**



Certified Company  
Management System  
**ISO 14001:2015**