



Product Catalog

2012-2013



For.Tec. is leader on design, construction, installation and selling of high-tech ecologic plants. Our strength and pride derive from plants for waste, fumes treatment and water depuration.

Thanks to collaboration and know-how of our technicians, we can offer plants with a high engineering value, to satisfy any customer needs. Our production follows accurate processes and guarantees constant quality, compliance with delivery terms and high reliability.

Besides the ordinary guarantee we offer a period of planned maintenance, to keep a high level of efficiency and security of our incinerators.

Bring up to standards of old incineration plants in compliance with the most restrictive national and European measures.



Industrial waste incinerator Carcass incinerator
Pyrolytic Oven Pet Crematory Organic waste incinerator
Industrial waste incinerator Hospital waste incinerator Animal incinerator
INDUSTRIAL WASTE INCINERATOR FORTEC Organic waste incinerator
Medical waste incinerator Crematory
Pyrolytic Oven Industrial waste incinerator Animal incinerator Pyrolytic Oven
Organic waste incinerator Animal incinerator Pyrolytic Oven Pet Crematory
Pyrolytic Oven Hospital waste incinerator Industrial waste incinerator
FORTEC Crematory
Crematory Hospital waste incinerator
Pyrolytic Oven Carcass incinerator
Industrial waste incinerator Animal incinerator Pyrolytic Oven
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Animal incinerator
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Crematory Crematory Pet Crematory
Animal incinerator Industrial waste incinerator
Crematory Hospital waste incinerator
Pyrolytic Oven Organic waste incinerator



Hospital & Industrial Waste incinerator Mod. ECOTECH



Our waste incinerators mod. ECO TECH are discontinuous types of ovens with a static chamber. They have been designed for thermo destruction of waste material having medium-high lower calorific value (L.C.V.).

Studied to satisfy incineration requirements of hospitals, medical laboratories, small communities, cemeteries, shopping centers, airports and gum, paper, wood, agricultural industry etc.

The energy recovery system from gas combustion, fixed over each Eco tech oven, allows low running costs thanks to the improvement of combustion process and therefore the reduction of fuel consumption in comparison with standard ovens.; If requested an additional system of energy recovery, for production of hot water with zero-costs, can be added to the oven.

Every Eco Tech oven has a gas post-combustion chamber, fabricated to respect working parameters imposed by current antipollution regulations such as:

- Working temperature: $>850^{\circ}\text{C}$ $> 1100^{\circ}\text{C}$ according to waste category*
- Gas residence time in afterburner: > 2 seconds*
- Free oxygen level: 6%*

The Scrubber type plant for humid treatment is connected with post combustion process of gas coming up from incineration chamber. Therefore our Eco Tech ovens emissions respond to the most restrictive and severe antipollution regulations.

Eco tech incinerators have a destroying power varying from 40kg/h to 400kg/h.

Organic Waste incinerator mod. ROTOMAC



Rotomac incinerators are discontinuous ovens with a rotary or swinging combustion chamber. They are suitable for incineration of whole animals, slaughtering waste and organic remains in general. According to model it's possible to incinerate both small size animals as pets, sheep, swine, and big animals as bovine.

Perfect also to satisfy chicken, rabbit and fish farming.

The light rotary movement transmitted over combustion chamber improves the acceleration of waste dehydration and incineration process. In this way fuel consumption is lower than in a similar static plant

Every ROTOMAC oven has a vertical post-combustion chamber, fabricated to respect working parameters imposed by current antipollution regulations such as:

- Working temperature: $>850^{\circ}\text{C}$ $> 1100^{\circ}\text{C}$ according to waste category*
- Gas duration: 2 seconds*
- Free oxygen level: 6%*

The Scrubber type plant for wet treatment is connected with post combustion process of gas coming up from incineration chamber. Therefore our eco tech ovens emissions respond to the most restrictive and severe antipollution laws.

An automatic system for waste load can be added to plant if requested.

ROTOMAC incinerators have a destroying power varying from 40 kg/h to 500kg/h.

Organic remains & animal carcass incinerators MOD. CA



The CA oven is an incinerator with **static chamber** and it has been designed for small quantities of organic remains, slaughtering waste and animals as pets, swine, sheep, fish etc. This is the **cheapest and most practical** way for removal of such waste.

Thanks to combustion process followed by energetic recovery, the CA oven allows an easy waste disposal.

Having a display for incineration planning the **hand working required is minimized**.

CA ovens are **pre-installed and tested** at our workshop, in order to **simplify the installation process**, which can be carried out by unskilled workers. **Once connected to electric and fuel system, it's ready to be used.**

CA plants can be also installed under common roofs.

These incinerators have a destroying power between 30kg/h and 200kg/h; and *Its **multi-chamber design** helps to assure smokeless/odorless operation and compliance with environmental regulations.*

The system of energy recovery from gas combustion, regularly fixed over incinerators, allows further energy saving making the combustion process cheaper.

Pyrolytic oven Mod. TR



The pyrolytic ovens **mod. TR**, designed and built by us, are suitable for:

- **Paint stripping** of waste products due to mistaken painting
- **Regeneration** of metal products through repainting
- Paint stripping of paint booth tools such as hooks, connecting rods, grilles, etc.
- **Removal of insulating resin** from motors envelopments. Motors regeneration with subsequent firing of resins follows this process.

For. Tec studied a heat stripping process based on **different stages** that make it non-invasive and to protect products from deterioration.

During the first stage, the **heat stripping oven** works **under controlled conditions** keeping a constant temperature; during the second stage the oven temperature increases till reaching the overheating of pieces in it contained, to the temperature of about 430° (depending on materials used) and the complete decomposition of their envelopments.

The planned ignition during the cycle of nebulized liquid avoids the beginning of combustion and allows the dross detachment from metals treated.

Gases coming from pyrolysis chamber are **transferred into a post combustion chamber** where they oxidize under a temperature of 900 °C **therefore fumes and bad smells are removed** and antipollution regulations are observed.

Pet Crematory mod. FIDO



Nowadays pet cremation request is increasing, therefore thanks to a long experience in this activity, For. Tec has designed a specific incinerator for dogs, cats cremation etc. Attention for design and plants manufacture makes our incinerators **MOD. Fido** superior to common carcasses incinerators, unsuitable for pets cremation.

Fido cremators working conditions:

Up to four cremations at any cycle: thanks to a special system studied to keep animals ashes apart, with the ability to recover the remains of each animal, giving them back to the owners.

Carcasses incineration: this incinerator can be also used for thermo destruction of groups of carcasses. In this case the incineration cycle can exceed the number of four carcasses:

FIDO incinerators offer new business opportunities such as:

- Pets cremation with remains restitution or not
- Carcasses incineration, coming from veterinary clinics, kennels and breeding

These plants can be installed under normal roofsa.

- Easy installation
- High technological content
- With energy recovery and fumes treatment system
- Excellent price-quality ratio

Pets cremators mod. Fido are built in compliance with Commission Regulation (EU) No 142/2011 of 25 February 2011.

Crematory mod. FT



Crematory ovens mod. FT have been designed with an innovative technique which allows to maximize the cremation process, thanks to finest refractory materials and systems for heat recovery and reutilization which otherwise would be lost in the atmosphere.

Some models available:

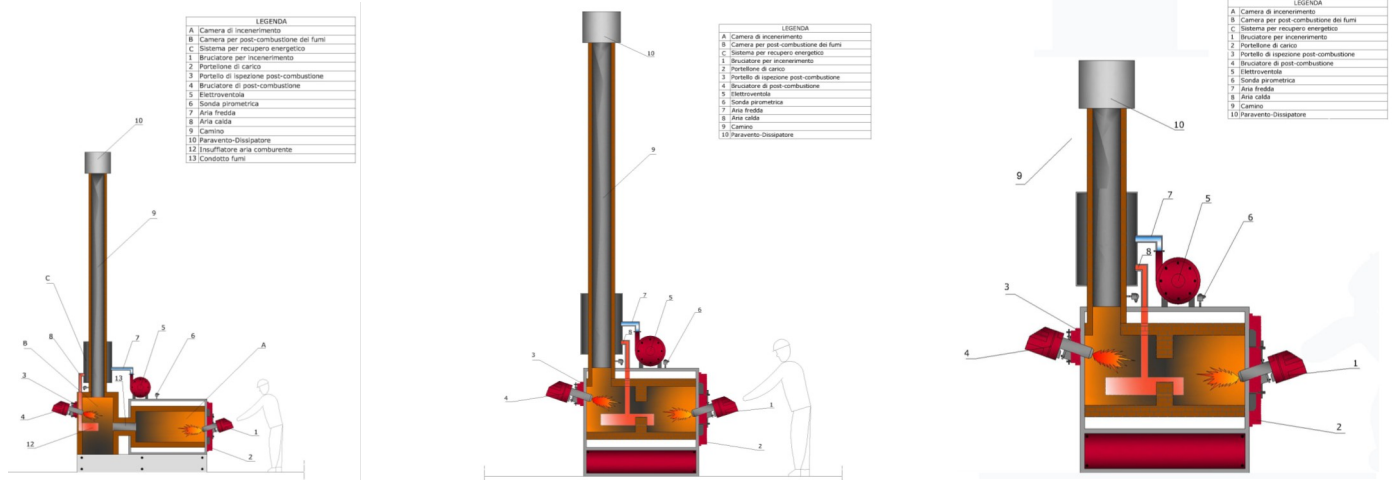
- Communicating or superimposed chambers ;
- Covering with flat or corrugated stainless steel sheets
- Extra accessories for process automation are available

At the bottom of the combustion chamber are installed two ducts, for ashes and for zinc recovery. They can be reached with two doors respectively placed, in front of the combustion chamber and on its side. This is an easy way to remove ashes and zinc and to begin a new cremation cycle.

Gases coming up through cremation chamber are directed towards a post combustion chamber, where they are subjected at a temperature of 900 °C which produces gases oxidation. Therefore fumes and smells disappear in compliance with antipollution regulations.

Cremators can be equipped with systems for analysis of emissions in atmosphere and plants for fumes purification

Waste incinerator mod. EXCE

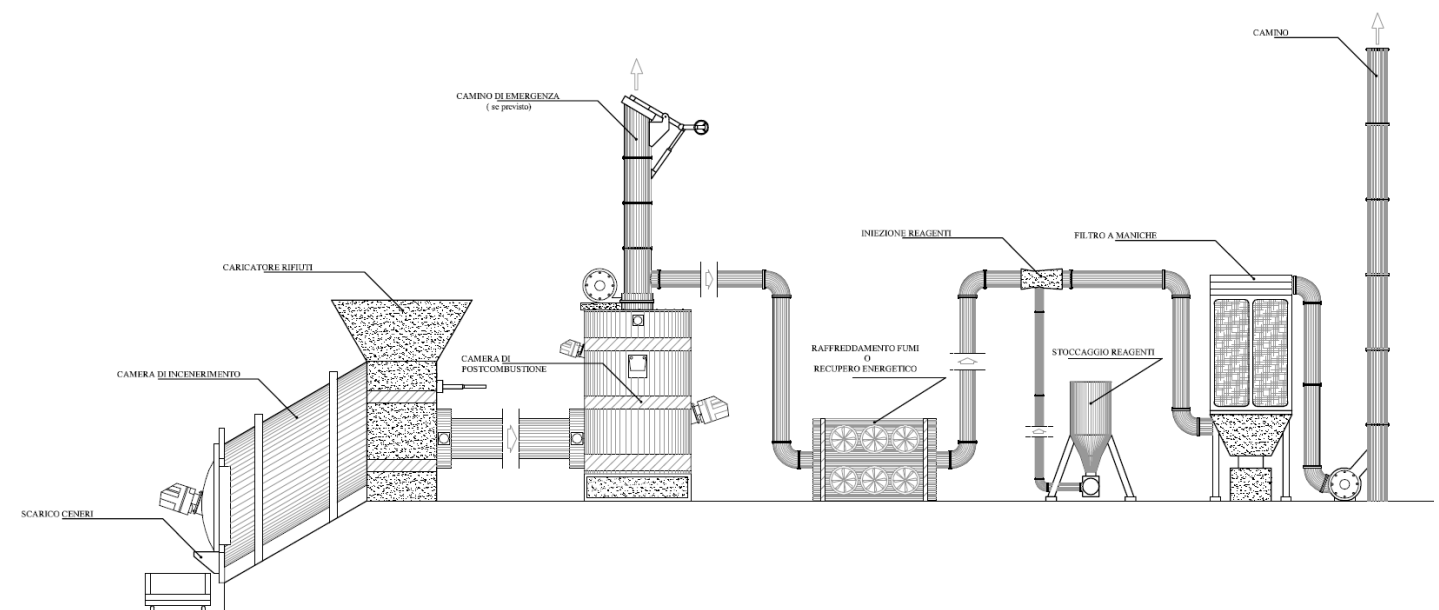


Exce incinerators have been designed to fulfill specific customer requests; they can be used for incineration of:

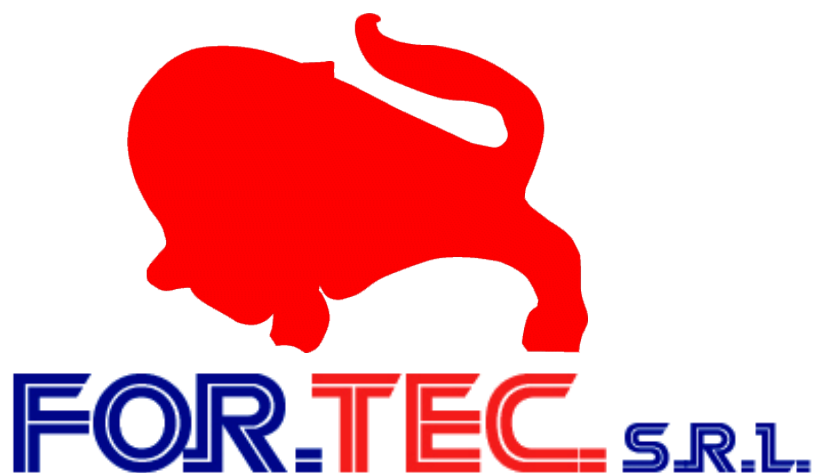
- small quantities of hospital waste;
- Small quantities of industrial waste;
- Pets, sheep, swine, rabbit and cattle breeding etc.
- Municipal waste;

Furnished with a post combustion chamber working at a temperature of 850 °C or 1100°C depending on waste material to be incinerated. Easy to be installed because assembled in our workshops. They can also be installed over ships.

Customized Project



Thanks to collaboration and know-how of our technicians, we can offer plants with a high engineering value, to satisfy any customer needs. Our production follows accurate processes and guarantees constant quality, compliance with delivery terms and high reliability.



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Waste incinerator and industrial furnaces

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