

ECOTHERM

Company Profile



Ecotherm

Tecnologie Tecnofiche ed energetiche s.a.s.

Uffici ed Officina:

Via dei Pratoni 3/29

50010 Badia a Settimo

Scandicci - Firenze

Tel. & Fax +39 55 7310847

E-mail info@ecoht.it

Web sites

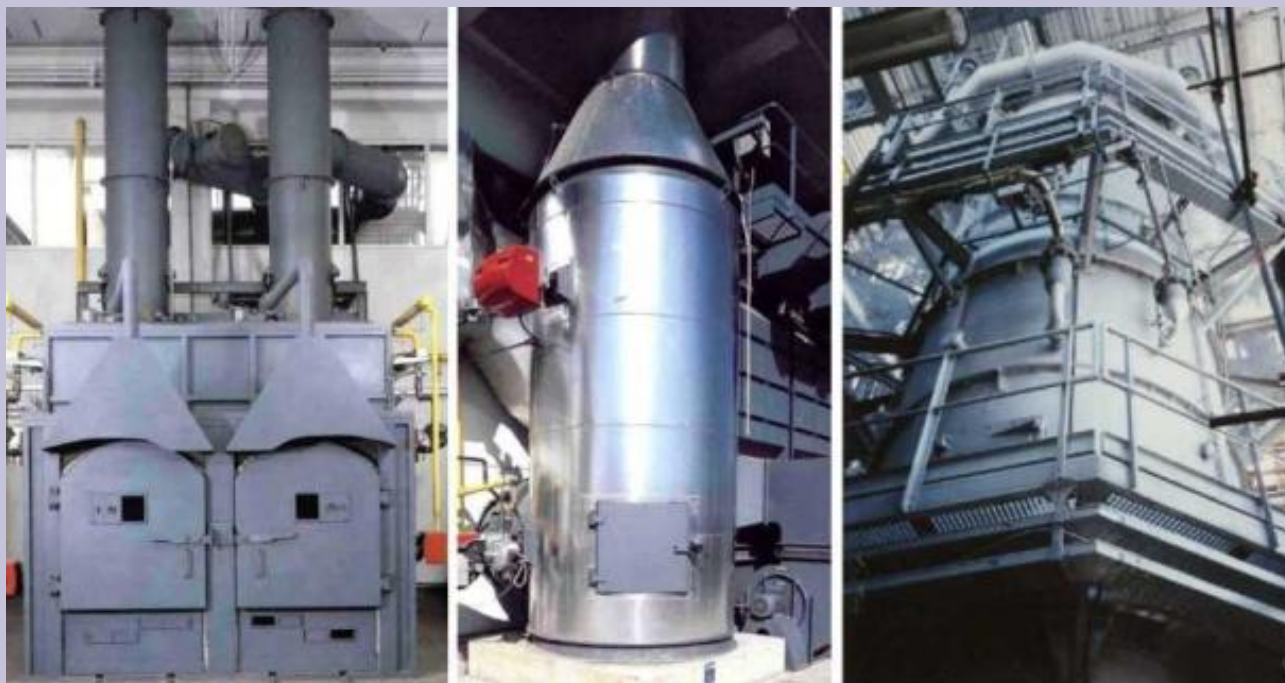
www.ecoht.it

www.diossine.it

www.denox.it



ECOTHERM - COMPANY PROFILE



Ecotherm is offering to different customers - in Italy and in European countries - its Technical Experiences & Engineering capabilities in manufacturing "turn key" plant and equipments for environmental protection and energy recovery.

It is addressing to the market, and to the different field of civil and industrial applications, with a complete range of know-hows, engineering services and products connected with the design, manufacturing, installation and start-up of plants and equipments for the following applications:

- **Static and Rotary kilns for incineration of solid wastes and/or biomasses,**
- **Energy recovery and Flue gas treatments**
- Rotary and static kilns, mobile grid kilns, post-combustion systems
- Incineration of special and toxics solid wastes
- Biomasses and/or solid wastes combustion
- Heat Recovery
- Bag filters, wet scrubbers
- Reactors and quencher
- Chemicals dosing systems in flue gas flow
- Waste Heat Recovery and Transfer
- Organic Rankine Cycle Systems (OCR) for electric power generation
- **Industrial and/or civil water & waste water treatment plants and equipments**
- Biological treatment plants and equipments
- Tertiary treatments
- Processes for recovery of useful substances from wastes
- Drinking water treatment plants and equipments

Ecotherm

Tecnologie ecologiche ed energetiche s.a.s.

Uffici ed Officina: Via dei Pratoni 3/29 50010 Badia a Settimo - Scandicci - Firenze

Phone & Fax + 39 55 7310847 E-mail: info@ecoith.it

ECOTHERM - ENGINEERING & KNOW-HOW

Ecotherm know-hows have been developed and grown up by many plants installed in Italy and in foreign countries (for the more different industrial and civil applications) and by the real practice in solving the problems connected with the design and the installation of these plants.

Different experiences that will consent to approach with capability and competence the more difficult environmental problems: Hospitals, Communities, and Manufacturing Industries with very high risk of pollution.

We offer our **Consulting Services** with a complete range of engineering competences and capabilities in the environmental protection, so detailed:

- **Feasibility study and preliminary investigations.**
- **Tests with pilot plants.**
- **Plant supply & installation**
- **Environmental study.**
- **Know-hows and processes**
- **Investments evaluations and running costs.**
- **Detailed engineering**
- **Job management**
- **Performance tests and start-up.**
- **Checking of existing plants**
- **Standards and procedures**

All the performances offered are at the top of the technology available to-day, supplied with high professionalism, including the solution - not only of technical problems of design and manufacturing or installation - but also of administrative and procedure requirements.

We can suggest - to our customers - the best technical solution available to solve a problem, at the more convenient economical conditions suitable, to take the more correct investment with the lower running cost that will be possible.



Moreover, we have at our disposal a well organized laboratory specialised in environmental protection and in the controls of water - air - noise, that will cooperate with us to carry out the following analytical investigations and services.

Detailed summary of our experiences and - of course - of our best capabilities is resumed in the following sheets:

Ecotherm

Tecnologie ecologiche ed energetiche s.a.s.

Uffici ed Officina: Via dei Pratoni 3/29 50010 Badia a Settimo - Scandicci - Firenze

Phone & Fax + 39 55 7310847 E-mail: info@ecoith.it

INCINERATION OF SOLID WASTES

For different applications:

- **combustion of biomasses: virgin wood or post-industrial and post-consumer sources, chips, vegetables and residues from agricultural activities**
- **garbages and municipal solid waste thermal destruction for villages and hotels.**
- **hospital and biomedical solid waste treatment**
- **incineration of waste from slaughtering and animal carcasses incineration.**
- **Incineration of laboratory cavies or contaminated carcasses of animals**
- **incineration of wastes from manufacturing industries.**
- **thermal destruction plant for tyres.**
- **incineration of waste and pulper from paper production processes.**
- **thermal destruction of wastes from textile industry.**
- **thermal destruction of used plastics from packings (i.e. poliethylene, ethylene, clorurate compounds).**
- **incineration of pharmaceutical wastes and/or toxics wastes.**



Ecotherm

Tecnologie ecologiche ed energetiche s.a.s.

Uffici ed Officina: Via dei Pratoni 3/29 50010 Badia a Settimo - Scandicci - Firenze

Phone & Fax + 39 55 7310847 E-mail: info@ecoith.it

FLUE GAS TREATMENTS

For more different applications:

- **Chemical processes: deacidification (lime or bicarbonate process), deSOx, deNOx, activated carbon injection**
- **Reactors**
- **Dry bag filtration for dedusting**
- **Mini - ESP for PM10 reduction**
- **Dioxine reduction by absorption**
- **De-NOx SNCR process for biomass combustion applications**
- **Stationary A.C. filters for absorption of toxics elements**
- **Activated carbon injection**
- **Recovery of precious metals from wastes of jewellery industry**
- **Gas treatments for glass industry**



All the plants can be complete of heat recovery systems from post-combustion gases with the possibility of production of hot water or steam following the requirements of the users.

Commitment will be to convert the incineration plant in a **HEAT RECOVERY PLANT** with the cost reduction, of course.

Ecotherm

Tecnologie ecologiche ed energetiche s.a.s.

Uffici ed Officina: Via dei Pratoni 3/29 50010 Badia a Settimo - Scandicci - Firenze

Phone & Fax + 39 55 7310847 E-mail: info@ecoith.it

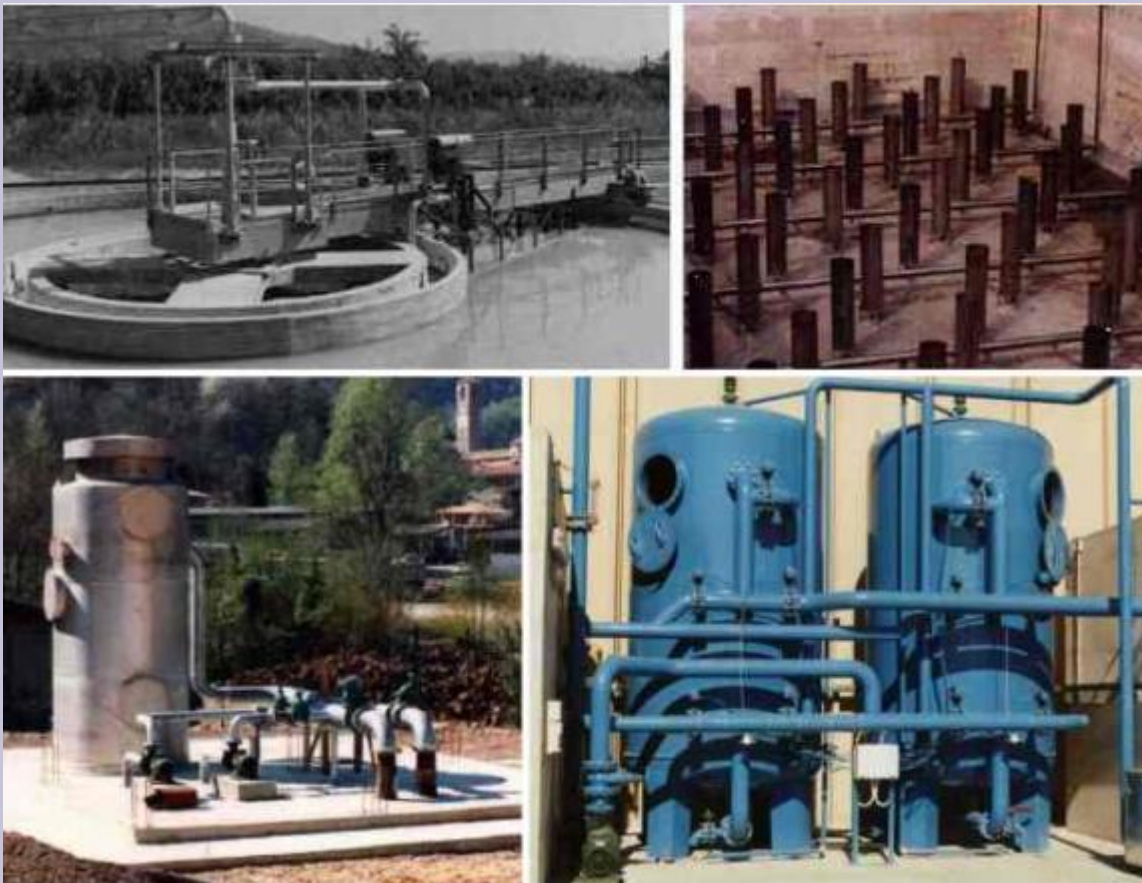
WATER TREATMENT PLANTS

DRINKING WATER TREATMENT PLANTS

- Chiariflocculation plants
- High performances chiariflocculation processes with lamellars accelerating systems.
- Sand bed filtration single or multi-layer, open systems in concrete, or in steel drums
- Activated carbon filtration
- Dosing plants and neutralizations systems: manganese, iron and/or deacidification special treatments.
- Chlorine, chlorine dioxide or ozone disinfection processes.
- Mobile emergency treatments plants in container, for hospitals, communities, and so on.

CIVIL & INDUSTRIAL WASTE WATER TREATMENTS

- Sewage and sludge treatments.
- Advanced tertiary treatment for phosphate or azote removal or filtration for suspended solids reduction.
- Waste water treatment with experience in paper factories, textile and pharmaceutical industries.
- Energy recovery from biological gas or from industrial waste water.
- Recyclable materials recovery from waste water.



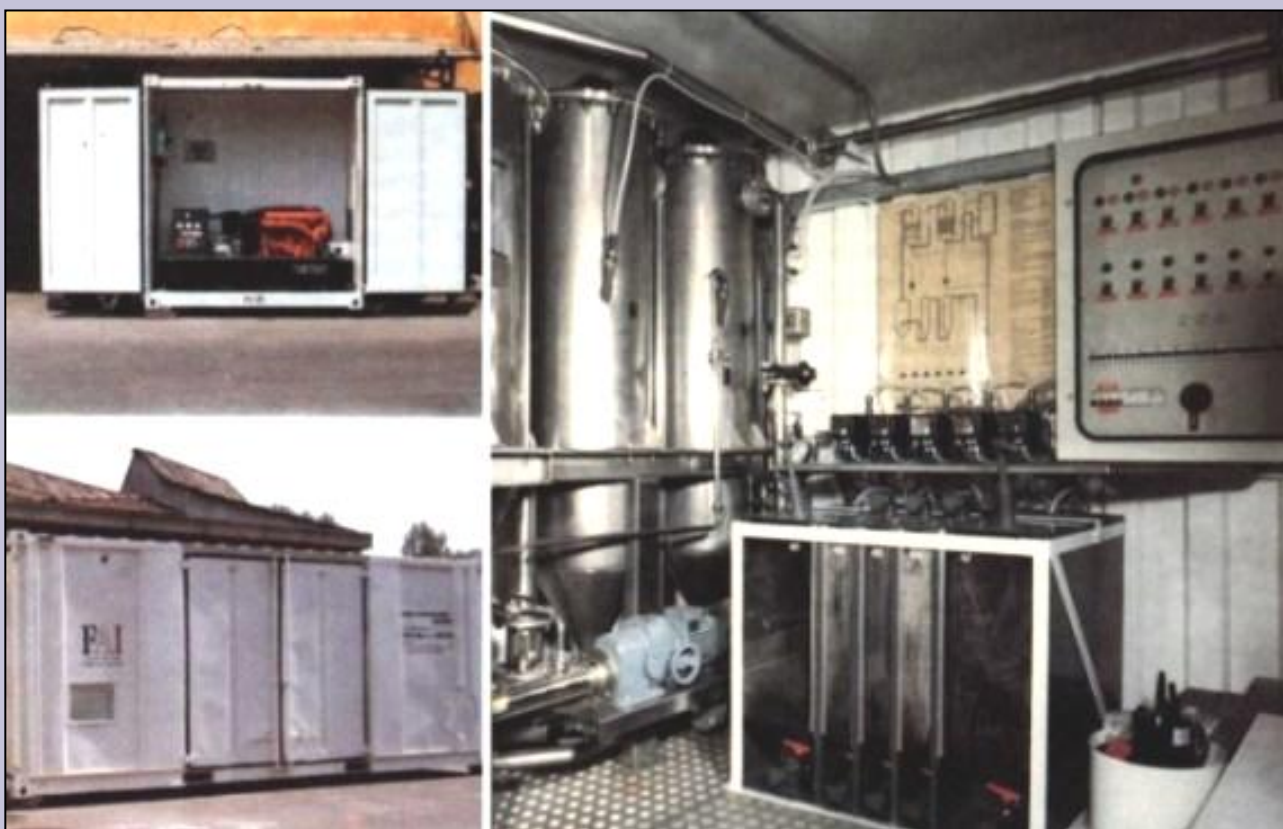
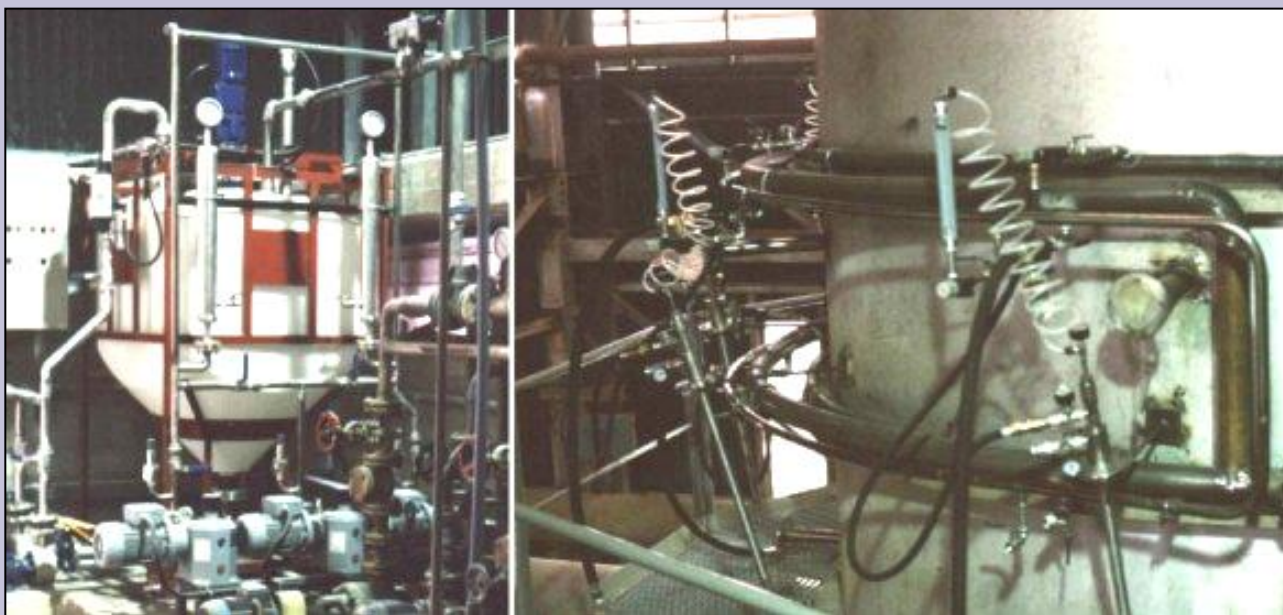
Ecotherm

Tecnologie ecologiche ed energetiche s.a.s.

Uffici ed Officina: Via dei Pratoni 3/29 50010 Badia a Settimo - Scandicci - Firenze

Phone & Fax + 39 55 7310847 E-mail: info@ecoith.it

SPECIAL PLANTS



Ecotherm

Tecnologie ecologiche ed energetiche s.a.s.

Uffici ed Officina: Via dei Pratoni 3/29 50010 Badia a Settimo - Scandicci - Firenze

Phone & Fax + 39 55 7310847 E-mail: info@ecoht.it



Ecotherm

*Tecnologie
ecologiche ed energetiche s.a.s.*

Uffici ed Officina:
Via dei Pratoni 3/29
50010 Badia a Settimo
Scandicci - Firenze
Tel. & Fax +39 55 7310847
E-mail info@ecoht.it

Web sites
www.ecoht.it
www.diossine.it
www.denox.it