

TEE Waste Incinerator units

January 2018



Dear Customer / Dear User

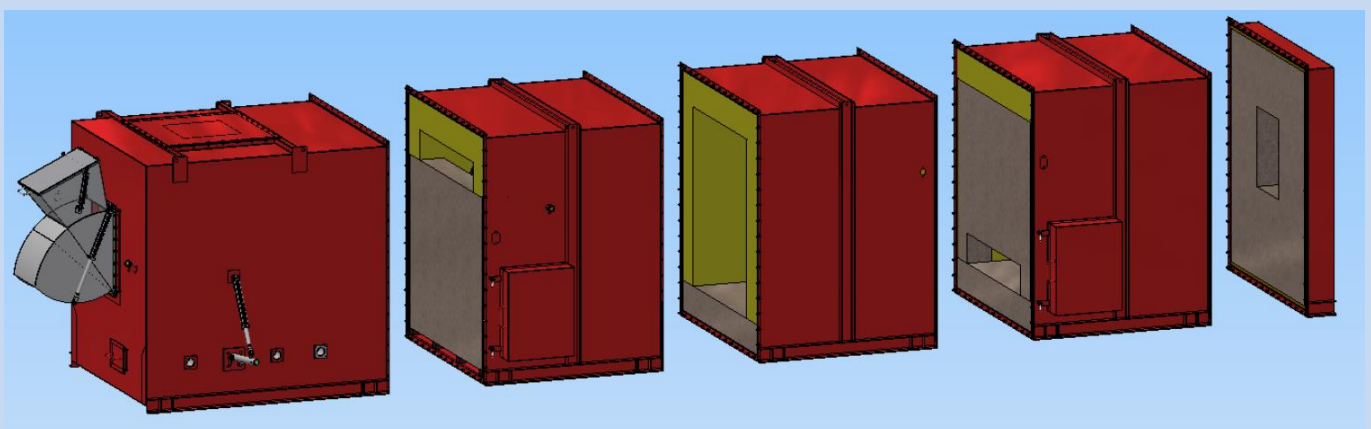
Following information should give an overview about different incinerator types and application possibilities of **TEE** standardized units.

Based on discussion with clients and experiences made with previous installations **TEE** start to develop these special type of standardized incinerator units also under respect of:

- **transportation cost**
- **assembling cost**
- **complete combustion**
- **easy handling**
- **long term use**

TEE design solution-

- **Transport:** All equipment can be transported inside standard sea container at lowest cost. The incinerator is designed as cubes which can be assembled to achieve the required volume and residence time of flue gases for complete combustion as per EN2000/76/EU requirements.



The cubes are fully equipped with inside insulation material and ready for assembling.

- **Assembling** on site is possible with fork lift or truck crane by your own staff – no special tools needed. **TEE** supervisor is available if requested.



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As we have learned from installation in the past it become difficult to get the cables and skilled man power for cabling and termination work based on supplied engineering documents.



To avoid this kind of trouble **TEE** provide pre-fabricated cable set with spezial plugs for easy, safe and fast cabling of all equipment. The spezial plugs are also approved for EMC applications.

- **Combustion** of solid, liquid, pastry, gaseous, hazardous, infectious kind of waste or combination of it.



Solid waste



liquid waste



shredder

All incinerator types for solid waste are equipped with a grate system to secure complete and efficient combustion.

Sometimes the waste need to be crushed- **TEE** provide shredder systems.

Flue gases from the combustion chamber passes the separate heated second combustion chamber / after burner at 1100 degree and a residence time of > 2 seconds.

Liquids are injected by pressure air as spray into the chamber.

- **Easy handling** starts with cost efficient transport as cubes and simple and fast installation.

Waste feeding is comfortable by using a front and/or top loader. This special device allow simple and safe charging in manual or automatic mode.

This feeder can be connected with a conveyor belt for most comfortable feeding.

- **Long term use** request a proper design and manufacturing under controlled terms by using high quality material. **TEE** also provide necessary after-sale-service as spare part supply, inspection and maintenance services to keep the unit running under safe, stable and efficient conditions.



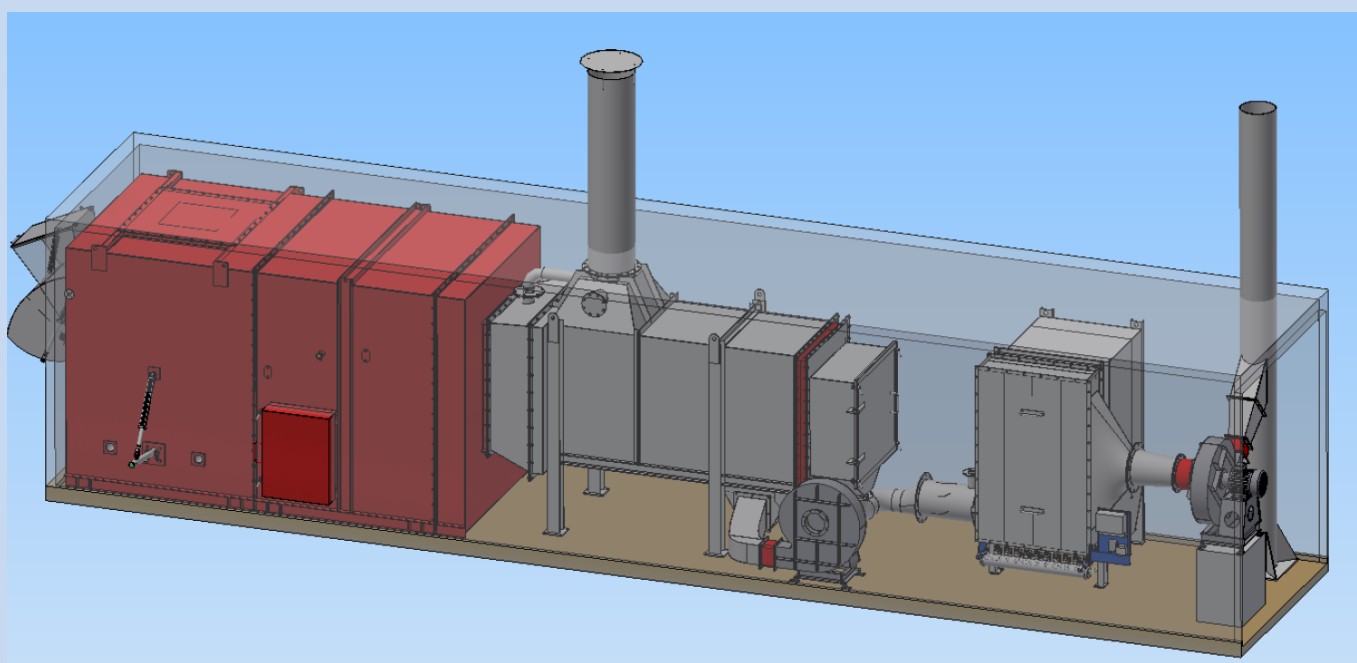
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TEE incinerator types

Incinerator are available with capacity from **50kg/h up to 500kg/h**.

TEE offer transportable / mobile incinerator units complete assembled on flat racks including combustion, cooler and filter unit for capacity up to 300kg/h.

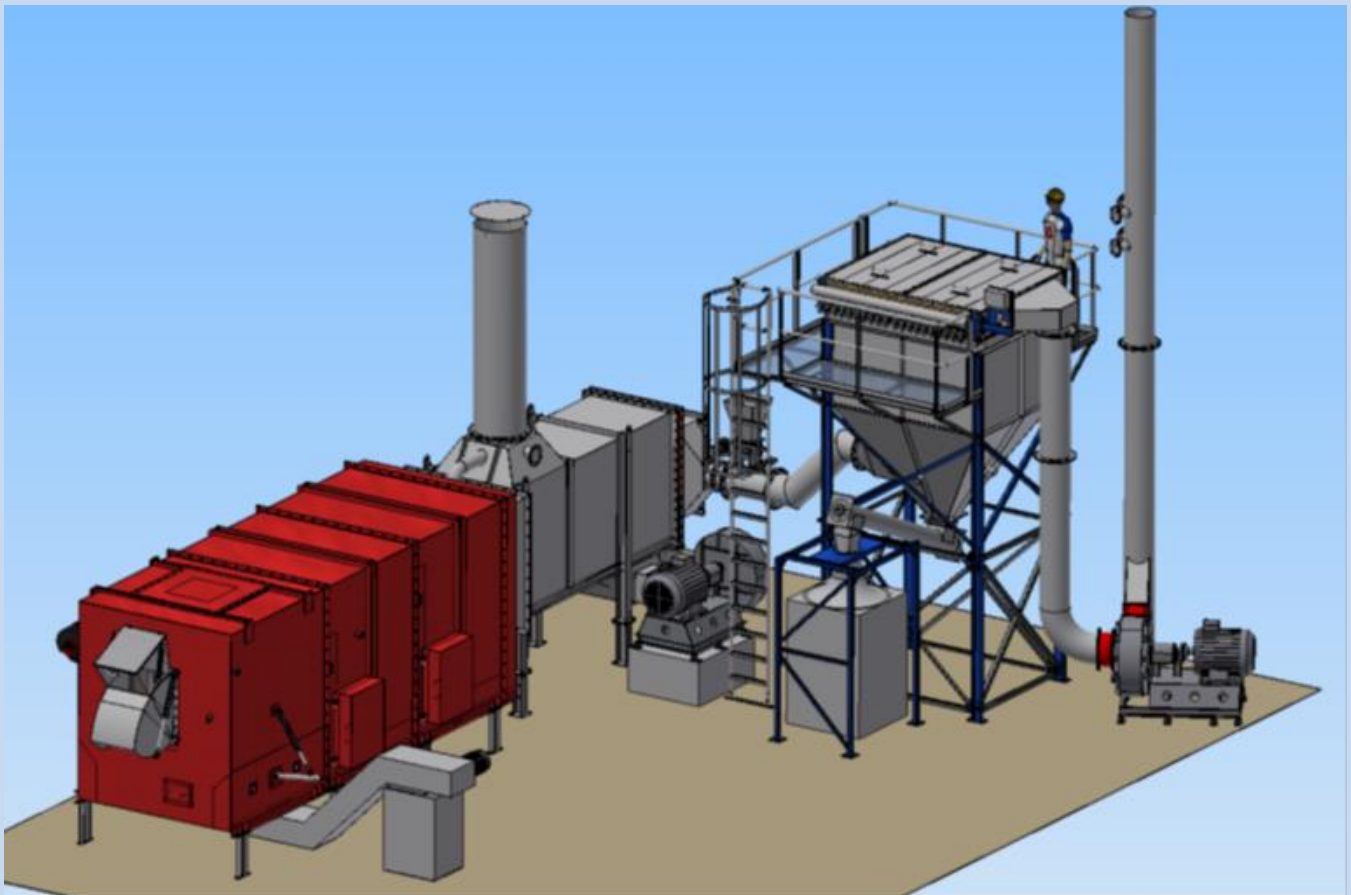


Picture shows complete incinerator unit inside 40 feet standard sea container.

Basically we differ in following category of configuration:

- **BASIC**, waste burning @ low budget
- **STANDARD**, waste incineration under EN directive 2000/76/EC
- **EXCLUSIVE**, most comfortable waste incineration under EN directive 2000/76/EC

Based on your need and budget **TEE** offer many configuration settings which will meet your demand.



Picture shows a complete equipped incinerator unit with capacity of 200kg/h in EXCLUSIVE configuration

Available equipment / extra / accessories

Description
Combustion unit with diesel fuel burner
Combustion unit with natural gas burner
Combustion unit with gas and diesel fuel
Liquid waste injection system depending on: - storage tank, pump, nozzle at incinerator
Gaseous waste burner system
Front feeding door
Top feeding door
Conveyor belt for waste feeding
Deashing system
Second combustion chamber / after burner
Burner system to secure required temperature
Cyclone for hot gases to catch dust particles, cooling air blower and stack
Flue gas cooling systems
AIR / AIR cooler, made of high alloyed stainless steel, cooling air blower operated with various speed drive to control the flue gas temperature, hot flue gas



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emergency bypass
Hot water system with circulation pump and air cooler
Steam boiler with accessory
Thermo oil system with circulation pump
Bicarbonate dosing from basin
Bicarbonate dosing from Big Bag station
Bicarbonate mixing unit
Filter unit, equipped with ceramic candles, online cleaning system, dust discharging
Dust discharging by rotary valve
Dust discharging by rotary valve and screw conveyor into Big Bag station
ID fan to create underpressure at combustion chamber
Stack
Continuous Gas Monitoring System (CMGS) with relevant analyzer to observe flue gas quality
Air compressor 600 liter / minute @ 8bar
Generator unit to provide electricity
Steam turbine with generator

