



**KAPA ENGINEERING**

INCINERATORS



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via Como, 48/2  
21020 - Merello (VA)  
ITALIA

Phone: +39 345 7241122  
e-mail: [info@kapa-engineering.com](mailto:info@kapa-engineering.com)

web: [www.kapa-engineering.com](http://www.kapa-engineering.com)



 EU  
INTERNATIONAL  
STANDARDS  
COMPLIANCE

HEFAISTUS





Since 1998 KAPA ENGINEERING respecting the environment, study and manufactures machinery for the treatment of any kind of waste. Prototyping and innovative using the most advanced modern technology, providing our customers with reliable equipment. Headquartered in Italy provides the European and International market the most innovative global environmental systems.

The incineration systems is the solution for every kind of waste, as they manage each and every waste, in compliance with the strictest global standards and delivered with equipment that prevents the escape of any harmful component into the environment.



Energy from waste offers recovery of energy by conversion of non-recyclable materials through the processes of thermal technology. Energy that is produced in the form of electricity, heat or fuel using combustion, pyrolyzation, is clean and renewable energy, with reduced carbon emissions and minimal environmental impact than any other form of energy. HEFAISTUS is the pioneer system for this process

KAPA ENGINEERING founded in 1997 became soon the leader European manufacturer company of high efficiency incinerators. Our range of incinerators are designed to provide the maximum bio-safety for organic waste of animal origin, medical waste or incineration of animal carcasses. Incinerators HEFAISTUS are rugged and built by high quality materials, are certified and complying with European and International Standards for the emissions.

Since 1997, our expertise in manufacturing has grown year by year.

HEFAISTUS incinerators are suitable for solid and liquid waste, municipal, medical or animals.

Our incinerators provide the right solution for maximum bio-safety.



## HEFAISTUS

Constructed from the highest quality materials to be the most robust, efficient and reliable systems available, ensuring Addfield maintains its brand position of high quality and built to last systems. The quality and lifetime of our systems are un-challenged by any other manufacturer, guaranteeing a realistic payback on your investment. Highly powerful, robust and efficient Incineration system specifically designed to dispose wastes with low density and low to high moisture or liquid contents. With burn rates up to 300kg/ hour and proven to be highly effective and fuel-efficient, ensures that the HEFAISTUS series of Incinerators remain a market leader.



### INCINERATION CHAMBERS

Material of construction: External SS 316L, for the design pressure and temperature. The exterior surface temperature of the combustion chamber remains the ambient temperature.

Refractory cloak: The hot face refractory for the incinerator chamber will be High Alumina Refractory Bricks or castable refractory.  
 Chemical Analysis (%):  
 Al<sub>2</sub>O<sub>3</sub> : 71, SiO<sub>2</sub> : 24.5, Fe<sub>2</sub>O<sub>3</sub> : 1,1  
 Classification: HA 75  
 Refractoriness (S.C.): 38  
 Refractoriness Under Load oC: (t0,5): 1700  
 Raw Material Basis: Mullite / High Al. Raw Mat.  
 Bulk Density (gr/cm<sup>3</sup>): 2.60  
 Apparent Porosity (% b.v.): 18  
 C.C.S. (N/mm<sup>2</sup>): 70  
 Insulating cloak: Castable 120 mm.

### AIR POLLUTION CONTROL

NOx reduction facility including ammonia storage tank & pumps as required.  
 Air Quench system  
 Dust bag house filter with cleaning system  
 Gas depuration system.  
 Venturi scrubber 500 Lit capacity. SS 316L.  
 Quench air chamber and additional gas/air exchanger.

## INCINERUNNER

HEFAISTUS



Our latest range of mobile incinerators lend themselves to a variety of uses in waste management. Whether it is for shared facilities, camps, farms or even for disease control in remote areas.

The mobile range of incinerators have options for larger fuel tanks and generator sets. The control panel is set up for easy use. We offer bespoke mobile incinerators suited for rapid deployment to areas with sudden outbreaks of diseases. This enables the waste to be disposed of in an effective, fast, safe and secure environment. Our range of high capacity mobile incinerators are perfectly placed to any such unfortunate situation.



Equipped with sophisticated systems of the exhaust gas treatment



### ELECTRONIC MANAGEMENT

General Control system: TOUCH SCREEN

Incinerator temperature, Combustion air flow, High limit temperature, Two point temperature recorder (SD card)

Alarm signal:  
 "OPENING"  
 "CLOSING"  
 "FUEL"

Indicating & control instruments:  
 Combustion chamber temperature control  
 Emission control  
 Pilot lights & switches including  
 "Incinerator ready"  
 "Waste tank open"  
 "Waste tank closed"  
 "Combustion air fan damper open-closed"  
 "Burner stop"  
 Emergency stop  
 Horn silence

