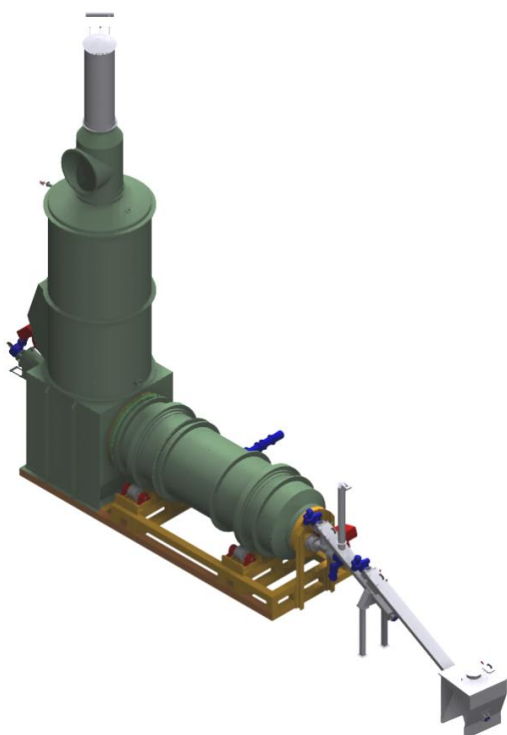




## ORGANIC WASTE

LOW HEATING VALUE ORGANIC WASTE FROM ANIMALS (REMAINS FROM ABATTOIRS AND CUTTING PLANTS, LIVESTOCK BREEDING CARCASSES, ETC.)

# FRB



MODEL	FRB
INCINERATION CAPACITY	100 – 200- 500 Kg/h
COMBUSTION CHAMBER	EQUI-CURRENT ROTARY KILN
OPERATION	CONTINUOUS OR DISCONTINUOUS
OPERATION HOURS PER DAY	12 h.
WASTE TYPE	SOLID - LIQUID
WASTE HEATING VALUE	7,5 – 10 MJ/Kg
FLUE GAS CLEANING	DRY O WET SCRUBBING (available upon request)

The proposed combustion system is designed to meet the emission limits required and enforced by the EU Standard [# 2000/76/EU Guide line](#)

A high performances combustion system, easy to be operated, meeting stringent requirements for the environment protection and specifically designed for remains from abattoirs and cutting plants, livestock breeding carcasses, etc.).

The plant is available in different capacity per hour sizes with the following features:

- Equi-current rotary kiln complete with burner and control board. Manual unloading of ashes to take place only when plant is cold.
- Post-combustion chamber is designed to grant:
  - Temperature range 850/1.050 °C
  - Combustion gas residence time > 2 secondi
  - Swirl chamber to improve combustion's efficiency
  - Oxygen content > 6%

Complete with burner, control board, emergency chimney

- The operation can be continuous or discontinuous. Feeding system can be manual or automatic.

- Heat exchanger for the production of hot water at T = 90°C. (available upon request)
- Flue gas cleaning system for the abatement of pollutants – acid fumes, dioxins and heavy metals – WET SCRUBBING type or DRY SCRUBBING type (using Bicarbonate and activated carbon. The system is supplied complete with reactor, reagent's dosing and bags filter) both are available upon request.
- PLC control unit complete with dedicated operating system and net connection for online assisted technical support (subject to the of a flue gas cleaning system for the abatement of pollutants).

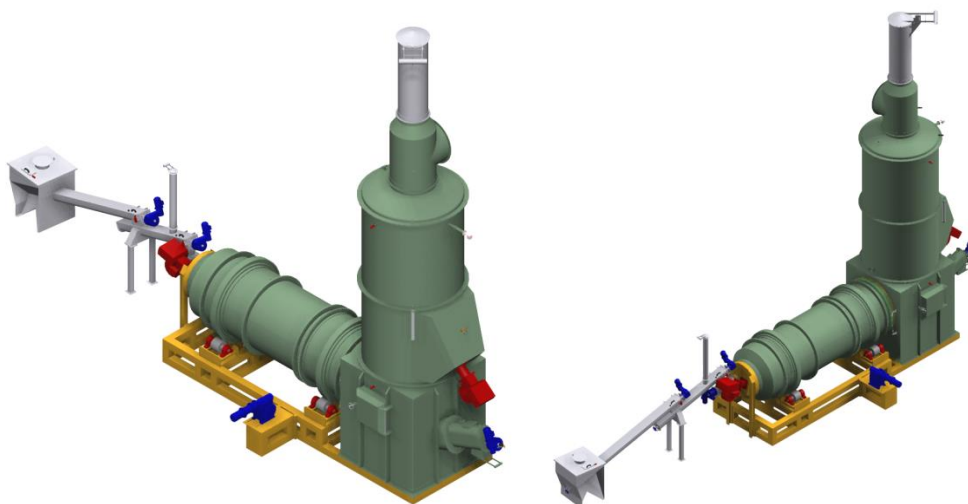
TYPE	QUANTITY	½ HOUR VALUE	DAILY AVERAGE VALUE
DUSTS	mg/Nm <sup>3</sup>	30	10
HCl	mg/Nm <sup>3</sup>	60	10
SO <sub>2</sub> + SO <sub>3</sub> as SO <sub>2</sub>	mg/Nm <sup>3</sup>	200	50
HF	mg/Nm <sup>3</sup>	4	1
NO <sub>x</sub> as NO <sub>2</sub>	mg/Nm <sup>3</sup>	400	250
CO	mg/Nm <sup>3</sup>	100	50
T.O.C.	mg/Nm <sup>3</sup>	20	10
TYPE	QUANTITY	PROBE AVERAGE VALUE	
Hg	mg/Nm <sup>3</sup>	0.5	
Cd + Tl	mg/Nm <sup>3</sup>	0.05	
Pb + Cr + Cu + Sn + Mn + Sb + As + Ni + V	mg/Nm <sup>3</sup>	0.5	
DIOXINS + DI-BENZOFURANS (2,3,7,8 TCDD)	mg/Nm <sup>3</sup>	0,1 Average value over a sampling period of 8 h.	

The results of the measurements made to verify compliance with the emission limits are standardized at the following conditions:

- TEMPERATURE 273,15 K
- PRESSURE 101.3 kPa
- STATE OF GAS – MEASURED DRY
- CONTENT OF OXYGEN IN THE FLOWING GAS EQUAL TO 11% IN VOLUME

Sound pressure level 1 meter away from the logic perimeter of the source (i.e. the entire combustion system including its bases):

- 85 dB +/- 2 dB MAX



Note: The technical data are only indicative and need to be checked in the design phase.