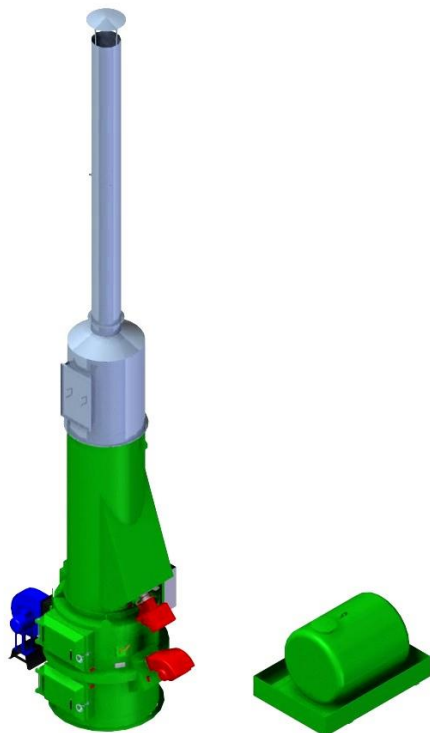




HOSPITAL WASTE

COMBUSTION SYSTEM FOR SPECIAL OR HAZARDOUS HOSPITAL WASTE

DSP-H



MODEL	# DSP-H
WASTE TYPE	SPECIAL OR HAZARDOUS HOSPITAL WASTE
INCINERATION CAPACITY	50 – 100 Kg/h
COMBUSTION CHAMBER	VERTICAL STATIC PYROLYTIC
OPERATION	DISCONTINUOUS
FEEDING	MANUAL
OPERATION HOURS PER DAY	8 – 12 h.
HEATING VALUE	13,6 – 15,9 MJ/Kg
HEAT RECOVERY	HOT WATER AT 90°C
HEAT RECOVERY POTENTIALITY	0,2 – 0,36 Mwt
FLUE GAS CLEANING	DRY SCRUBBING WITH BAGS FILTER (Bicarbonate + activated carbon)

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

The proposed combustion system for hospital waste is based on a static vertical “pyrolytic” combustion chamber. The plant is available in different capacity per hour sizes with the following features:

- Manual feeding system.
- Combustion chamber at controlled temperature, complete with burner and control board. Manual unloading of ashes to take place only when plant is cold.
- Post-combustion chamber 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 and emergency chimney.

- Heat exchanger for the production of hot water – T=90°C
- Flue gas cleaning system for the abatement of pollutants – acid fumes, dioxins and heavy metals – dry scrubbing type using bicarbonate and activated carbons. The system is supplied complete with reactor, reagent’s dosing and bags filter.
- PLC control unit complete with dedicated operating system and net connection for online assisted technical support

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