SP-H



HOSPITAL WASTE

COMBUSTION SYSTEM FOR SPECIAL OR HAZARDOUS HOSPITAL WASTE

| | MODEL | # SP-H |
|--|--------------------------------|---|
| | TREATED WASTE | SPECIAL OR HAZARDOUS HOSPITAL WASTE |
| | INCINERATION CAPACITY | 50 – 100 – 150 - 250 Kg/h |
| | COMBUSTION CHAMBER | HORIZONTAL - STATIC - PYROLYTIC |
| | OPERATION | DISCONTINUOUS |
| | FEEDING | MANUAL OR AUTOMATIC |
| | OPERATION HOURS PER DAY | 8 – 12 h. |
| | HEATING VALUE | 13,6 – 15,9 MJ/Kg |
| | HEAT RECOVERY | HOT WATER AT 90°C |
| | RECOVERED HEAT POTENTIALITY | 0,2-0,36-0,55-0,88 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 horizontal "pyrolytic" combustion chamber. The plant is available in different capacity per hour sizes with the following features:

- Automatic feeding system with hydraulic piston for discontinuous loading operation
- 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 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 (smoke tube type) for the production of hot water at 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

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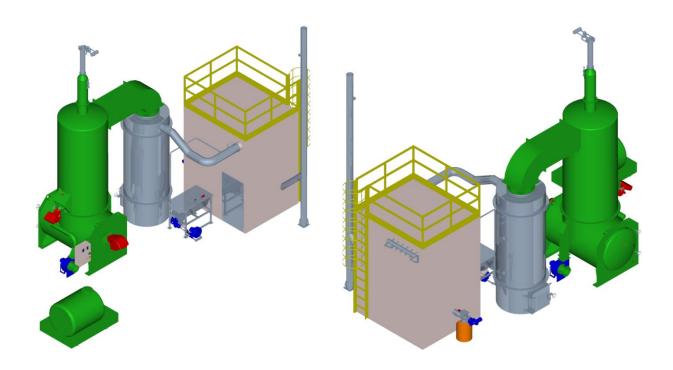
| ТҮРЕ | QUANTITY | 1/2 HOUR VALUE | DAILY AVERAGE VALUE |
|--|--------------------|--|------------------------|
| DUSTS | mg/Nm ³ | 30 | 10 |
| HCI | mg/Nm ³ | 60 | 10 |
| $SO_2 + SO_3 as SO_2$ | mg/Nm ³ | 200 | 50 |
| HF | mg/Nm ³ | 4 | 1 |
| NO _x as NO ₂ | mg/Nm ³ | 400 | 250 |
| СО | mg/Nm ³ | 100 | 50 |
| T.O.C. | mg/Nm ³ | 20 | 10 |
| ТҮРЕ | 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.