



Emission Calculations for Helios 0.3: Solid Waste Incinerator

****Based on AP-42, Table 2.1-9 emissions factors for Modular Starved-Air Combustors***

Pollutant	Rated capacity (lb/hr)	Rated capacity (ton/hr)	Emissios lb/ton burned	Emissions lb/hr	Operation hrs/yr	Emissions tons/yr.
PM	50	0.025	3.43 E+00	0.086	2500	0.1075
HCl	50	0.025	2.15 E+00	0.054	2500	0.0675
SO ₂	50	0.025	3.23 E+00	0.081	2500	0.10125
NO _x	50	0.025	3.16 E+00	0.079	2500	0.09875
CO	50	0.025	2.99 E-01	0.007	2500	0.00875

Notes:

1. Flow = 145 scfm (per heat & mass balance calculations for 200 lb. batch)
2. VOC destruction efficiency of the proposed system: 99+%
3. Visible Emission: 0% normal (not to exceed 10% for a period aggregating more than 3 minutes in any hour)