

Holliston Holdings, LLC, Church Hill, TN [37-0001]

Estimated SO₂ Emissions from Gas-fired Insignificant Emission Units (IEUs)

AP-42 SO₂ Emission factor = 0.6 lb/mmscf OR = 0.6/1020 lb/MMBtu

Annual Hours of Operation = 540

Exhaust ID	Description	Manufacturer/ Model	Capacity (Max)	Annual SO ₂ Emissions		Comments
				lbs/year	tons/year	
E1W	1 Compactor Area Heater #1	White Rogers 21D18-3	250,000 BTU	0.0794	3.97E-05	
E2W	2 Compactor Area Heater #2	White Rogers 21D18-3	250,000 BTU	0.00	0.00	Not working
E3W	3 Warehouse Heater #1	White Rogers 21D18-3	250,000 BTU	0.0794	3.97E-05	
E6W	4 Warehouse Heater #2	White Rogers 21D18-3	250,000 BTU	0.00	0.00	Not working
E7W	5 Warehouse Heater #3	White Rogers 21D18-3	250,000 BTU	0.0794	3.97E-05	
E9W	6 Warehouse Heater #4	White Rogers 21D18-3	250,000 BTU	0.0794	3.97E-05	
E10W	7 Warehouse Heater #5	White Rogers 21D18-3	250,000 BTU	0.0794	3.97E-05	
None	8 Maintenance Heater		85,000 BTU	0.00	0.00	Not working
P6A	9 Saturator Oven		85,000 BTU	0.0270	1.35E-05	
None	10 Coater #15 Heater		85,000 BTU	0.00	0.00	Not working
None	11 Warehouse Heater		85,000 BTU	0.00	0.00	Not working
None	12 Coating Dept. Heater #1	North American 223 FGC-6	85,000 BTU	0.0270	1.35E-05	
None	13 Coating Dept. Heater #2	North American 223 FGC-6	85,000 BTU	0.0270	1.35E-05	
None	14 Coating Dept. Heater #3			0.00	0.00	Not working
None	15 Coating Dept. Heater #4			0.00	0.00	Not working
None	16 Pent House Heater #1			0.00	0.00	Not working
None	17 Pent House Heater #2			0.00	0.00	Not working
None	18 Pent House Heater #3			0.00	0.00	Not working
None	19 Pent House Heater #4			0.00	0.00	Not working
P1A, P2A, P3A	Tenter #1		85,000 BTU	0.0270	1.35E-05	Gas oven
P4A, P5A, P6A	Tenter #2			0.00	0.00	Not working
P7A, P8A, P9A, P10A	Tenter #3		85,000 BTU	0.0270	1.35E-05	Gas oven
P20A, P21A	Tenter #5		85,000 BTU	0.0270	1.35E-05	Gas oven 2 roof exhausts
None	Starch/WhiteCloth Area Heaters (2)	White Rogers 21D	17,000 BTU	0.0108	5.40E-06	
None	Portable Heaters (2)	Master	110,000 BTU	0.0349	1.75E-05	One heater does not work
Total Annual SO₂ Emissions				0.6048	0.00030	

NOTES:

- SO₂ Emissions from Natural gas-fired Insignificant Emission Units (IEUs) only
- AP-42 SO₂ Emissions Factor from "Commercial-size" heaters is used (**Ref:** Table 1.4-2 AP-42 Emission Factors July 1, 1998 Edition)
- These heaters operate to provide "comfort heating" when building temperature is at or below 32 degrees F
- These heaters also operate for "fire safety" (to keep ceiling sprinkler pipes from freezing) when ceiling-level temperature is at or below 32 degrees F
- Based on historical data, it is estimated that ceiling-level temperature is at or below 32 degrees F, for 6 hours each day during winter months (December, January, and February)
(**Ref:** <https://weatherspark.com/y/17162/Average-Weather-in-Church-Hill-Tennessee-United-States-Year-Round>)
- When the units are operating, it is assumed that the unit is being fired at "Maximum Capacity"
- Units identified as "Not Working" have their respective fuel and electrical lines disconnected (verified on-site June 2023)