M01 - MISCELLANEOUS EXTERNAL COMBUSTION EQUIPMENT, NATURAL GAS FIRED, < 0.3 MMBTU/HR, UNCONTROLLED

CALCULATION METHODS

Ea = Ua x EF (lbs/mmft3)

Eh = Uh (scfm) x (60/1000000) x EF (lbs/mmft3)

NOTES:

- Control efficiencies must be included in emission factors since the calculation procedure will not refer to this data.

- No particulate speciation table exists for natural gas combustion.

- Emission factors for NOx, CO, and TOG are based on a natural gas BTU content of 1020 BTU/scf.

- Trace organic emissions are based on EPA speciation profile #0003 rather than the E rated factors listed in AP-42.

- Use this calculation procedure for small gas fired boilers, hot water heaters, ovens, etc. .

POLLUTANT	District Emission Factor (lbs/million ft3 fuel burned)	EPA REFERENCE DOCUMENT	EPA FACTOR	(UNITS)	COMMENTS
NOX	94.00	AP-42, Sect.1.4, 2/98, Table 1.4-1	94	lbs/million ft3	
CO	40.00	AP-42, Sect.1.4, 2/98, Table 1.4-1	40	lbs/million ft3	
SOX	0.60	AP-42, Sect.1.4, 3/98, Table 1.4-2	0.6	lbs/million ft3	Assumes an average sulfur content of 2000 grains MM ft3 natural gas.
TOG	11.00	AP-42, Sect.1.4, 3/98, Table 1.4-2	11	lbs/million ft3	
ROG	5.50	AP-42, Sect.1.4, 3/98, Table 1.4-2	5.5	lbs/million ft3	
TSP	7.60	AP-42, Sect.1.4, 3/98, Table 1.4-2	7.6	lbs/million ft3	
PM10	7.60	AP-42, Sect.1.4, 3/98, Table 1.4-2	7.6	lbs/million ft3	Assumes PM10 = TSP per EPA instructions.
ACETALDEHYDE					
AMMONIA					
BENZENE	0.4400	EPA VOC Speciation Profile # 0003 1/90	4.00%	lbs/lb TOC	
1,3-BUTADIENE					
ETHYL BENZENE					
FORMALDEHYDE	0.8800	EPA VOC Speciation Profile # 0003 1/90	8.00%	lbs/lb TOC	
HEXANE	0.1100	EPA VOC Speciation Profile # 0003 1/90	1.00%	lbs/lb TOC	
HYDROGEN CHLORIDE					
HYDROGEN SULFIDE					
ISOPROPANOL					
METHANOL					
PROPYLENE					
TOLUENE	0.2200	EPA VOC Speciation Profile # 0003 1/90	2.00%	lbs/lb TOC	
XYLENES					

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