

V01 - BULK GASOLINE VAPOR PROCESSOR, CONDENSER ONLY, (ARCO)

CALCULATION METHODS

$E_a = (Q_g + 0.127Q_d + Q_t) \times EF$ (lbs /1000 gallons throughput)

$E_h = E_a / H$

NOTES:

- Annual throughput (Qg) is for all gasoline dispensed by all loading racks serviced by this vapor processing unit.
- An average portion (12.7%) of the annual diesel throughput (Qd) is assumed to be loaded into transport vehicle previously holding gasoline.
- All of the annual throughput (Qg) for transit mix is assumed to be processed by the loading racks serviced by this vapor processing unit.
- A default factor for TOG / ROG of 0.29 lbs/1000 gallons of throughput (Rule 61.2) should be used where site specific test results do not exist.
- Maximum hourly emissions are assumed to equal average hourly emissions until more refined procedures are available.
- Speciation of vapor processor hydrocarbon emissions must be determined from source test results. Use default values from similar equipment where site specific data does not exist.

POLLUTANT	District Emission Factor	REFERENCE	ARB	(UNITS)	COMMENTS
	(lbs/1000 gal thruput)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG	0.29	District Rule 61.2 requirement	NA		Site specific test data should be used instead of the emission limit where possible.
ROG	0.29	District Rule 61.2 requirement	NA		Typical source test values are ~0.08 lbs ROG/1000 gal throughput
TSP					
PM10					
BENZENE	3.20E-04				Based on site specific testing during initial AB2588 implementation.
ETHYL BENZENE					
FORMALDEHYDE					
HEXANE					
PAH'S (UNSPECIFIED)					
TOLUENE	1.80E-04				Based on site specific testing during initial AB2588 implementation.
2,2,4-TRIMETHYLPENTANE					
XYLENES	2.60E-05				Based on site specific testing during initial AB2588 implementation.