

ESPSizer

gas flow rate **2000000** CFM 3398038 m3/h
 migration velocity **0.3** fps (range e.g. 0.1 - 0.5 fps) 18 fpm
 inlet **2** gr/cu.ft. 4577 mg/m3 4576728 µg/m3
 required target **0.02** gr/cu.ft. 46 mg/m3 45767 µg/m3
required efficiency 0.99
 required collection plate area 511686 sq.ft. 47554 m2 (as per Deutsch Anderson)

SCA 256 sq.ft. per 1,000 CFM (200 - 800 range typical)
 T-R sets: anywhere between 17 and 51

Matts-Ohnfeldt k = **0.6**
 required collection plate area 1416338 sq.ft. 131629.94 m2 (as per Matts-Ohnfeldt)

Matts-Ohnfeldt = 2.8 x
 standard Deutsch Anderson area estimate

base	CFMs	migration velocity fps	efficiency	required collection plate area (as per Deutsch Anderson)	
	2000000	0.3	0.99	511686	47554
				sq.ft	m2
	2000000	0.05	0.99	3070113	285327
	2000000	0.10	0.99	1535057	142663
	2000000	0.15	0.99	1023371	95109
	2000000	0.20	0.99	767528	71332
	2000000	0.25	0.99	614023	57065
	2000000	0.30	0.99	511686	47554
	2000000	0.35	0.99	438588	40761
	2000000	0.40	0.99	383764	35666

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