

TEST REPORT



Air Movement and Control Association International, Inc.
 30 West University Drive, Arlington Heights, Illinois 60004-1893, U.S.A.

Test Number

34197-A5

Test Unit: Positive Pressure Ventilator
 Manufacturer: Euramco Safety Inc.
 Trade Name: EX50Li
 Model Number: EL5500
 Impeller Diameter: 17.500 in.
 Inlet Area: 2.180 ft²
 Outlet Area: 1.770 ft²
 PPV Setback, s: 168 in.
 PPV Tilt, φ: 12.65 deg.
 PPV Height, h: 12.9 in.

Test Purpose: Contract Test
 Date of Test: 03/08/2017
 Client: Euramco Safety Inc.
 Witness: None
 Personnel: dlawhorn
 P_b: 29.17 in. Hg
 Unit System: IP

Test Method per ANSI / AMCA Standard 240-15, Figure 2 Setup

Comments:

Motor: 115V 60Hz 1PH.

Results at Test Conditions:

Det. No.	ρ (lbm/ft ³)	N (rpm)	Q (cfm)	P _s (in. wg)	P _{s_FIT} (in. wg)
1	0.0732	2798	14231	-0.041	-0.035
2	0.0732	2798	13947	-0.033	-0.033
3	0.0732	2797	13081	-0.025	-0.026
4	0.0732	2797	12153	-0.016	-0.020
5	0.0732	2798	11164	-0.008	-0.014
6	0.0732	2798	7186	0.008	0.010
7	0.0732	2798	5233	0.016	0.020
8	0.0732	2797	3199	0.025	0.029
9	0.0732	2797	2074	0.033	0.033
10	0.0732	2797	1242	0.041	0.036

Curvefit Results:

$$P_{s_FIT} = K_2 \cdot Q^2 + K_1 \cdot Q + K_0$$

K₂: -1.41E-10
 K₁: -3.28E-06
 K₀: 0.040637

Airflow at Free Air:

Q_f: 8939 cfm