Acoustic Test Report

Fuze Profile

Test conditions

Test carried out according to ISO 3744:2010(E)

Device tested

Brand: Elation

Model: Fuze Profile

Serial #: 9303123

Software version: 1.0.9

Environment

Temperature: 78° F / 25° C

Humidity: 49%

Warm-up Time (in Mins): 15

Ambient Noise Level: 28 dB(A)

Fixture placement:

Fixture was placed at least one meter from walls and ceiling, as described in the Standard ISO 3744:2010(E)

Using a spheric setup with a total of four (4) microphones

Instrumentation

Instruments used

	Equipment	Make	Type
	Acoustic Analyser	NTI	XL2
	Audio Switch	Kramer	VS-4X
Measurement Microphones	**Mic 01**	NTI	M4261
	Mic 02	NTI	M4261
	Mic 03	NTI	M4261
	Mic 04	NTI	M4261

Setup

The product was placed in a semi-anechoic chamber (See figure 1). The ceiling, floor and walls were all acoustically absorbent. The main dimensions of the room were 4.15 m x 3.60 m x 3.30 m (Length x Width x Height)

FIGURE 01: TEST SETUP

The product was allowed a minimum of 15 minutes of warm-up time before measurements were performed.

Measurement method

Measurements were carried out using a setup with 4 microphones. The microphones were in turn moved to the measurement positions described below.

Measurement setup:

Microphone 01 is setup 1 meter horizontal from the open Left (fan) vent on base of unit
Microphone 02 is setup 1 meter horizontal from the open Back (fan) vent on head of unit
Microphone 03 is setup 1 meter horizontal from the open Right (fan) vent on base of unit
Microphone 04 is setup 1 meter horizontal from the open Front (fan) vent on base of unit

Ambient Noise Level 28 dB(A)	Postion 01 dB(A) at 1m	Postion 02 dB(A) at 1m	Postion 03 dB(A) at 1m	Postion 04 dB(A) at 1m	Postion 05 dB(A) at	Postion 06 dB(A) at	Postion 07 dB(A) at	Postion 08 dB(A) at
Mode								
Fan Control - Auto (Default)	40.5	39.5	40	40.2				
Fan Control - Low	39.2	37.7	38.5	38.6				
Fan Control - High	51.1	50	50.8	49.7				
Fan Control - Studio	32.9	32	32.3	32.5				
Fan Control - Mute	29	29.3	29	30.5				

Results:

Average on auto fan is 40 dB(A)
Average on low fan is 38.5 dB(A)
Average on high fan is 50.4 dB(A)
Average on studio fan is 32.4 dB(A)
Average on mute fan is 29.4 dB(A)

Complete