

Effectiveness of F2D Silencer

Test report number: 002 version 01 URL: <http://www.f2d.dk/noise/test/002-01.pdf>

Test:

Test by: Henning Forbech
Data: 27-02-2011
Place: Bülowsgade 36
DK-8000 Århus
Denmark
Temperature: 21 °C
Air pressure: 1016 hPa
Humidity: - %

Silencer:

Manufacturer: ?
Designer: ?
Owner: Håkan Östman
Type: Simple chamber
Outlet: ø8 mm (2009 rules)
Inlet: ø10.9 mm
Internal volume: 24 ml
Total length: 60.2 mm
Max outside diameter: ø29.4 mm
Comment:

Sound Pressure Level meter:

Type: ISO-TECH SLM-1352N
Serial No: 100305521
Classification: IEC 61672-1: 2002 Class 2
Frequency weighting: A
Mode (smoothing): Slow
Measuring range: 70-120 dB(A)

Noise generator:

Pink noise generator: Welleman Kit: K4301
Audio amplifier: Welleman Kit: K4001
Loudspeaker: PASO SM35
Adapter: ø 12.15 mm
Noise frequency spectrum: Pink Noise

Result:

Background noise: < 30 dB (A)
Measuring distance: 100 mm
Noise level without silencer: 103.3 dB(A)
Noise level with silencer: 97.7 dB(A)
Silencer effectiveness: 5.6 dB

