

Effectiveness of F2D Silencer

Test report number: 004 version 01 URL: <http://www.f2d.dk/noise/test/004-01.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: FORA
Designer: FORA
Owner: Håkan Östman
Type: Simple chamber
Outlet: ø6 mm (2011 rules)
Inlet: FORA rubber
Internal volume: 15 ml
Total length: 52.3 mm
Max outside diameter: ø25.8 mm
Comment: "Fora I" on this picture
Outlet reduced to ø6 by Forbech

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: 98.8 dB(A)
Silencer effectiveness: 4.5 dB

