

Effectiveness of F2D Silencer

Test report number: 007 version 01 URL: <http://www.f2d.dk/noise/test/007-01.pdf>

Test:

Test by: Henning Forbech
Data: 07-07-2011
Place: Bülowsgade 36
DK-8000 Århus
Denmark
Temperature: 25 °C
Air pressure: 1011 hPa
Humidity: - %

Silencer:

Manufacturer: White #1
Designer Forbech
Owner: Henning Forbech
Type: Double chamber
Outlet: $\varnothing 7$ mm
Inlet: Silicone tube
Internal volume: - ml
Total length: 103 mm
Max outside diameter: $\varnothing 35$ mm
Comment: Experimental muffler

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: 60-120 dB(A)

Noise generator:

Pink noise generator: Welleman Kit: K4301
Audio amplifier: Welleman Kit: K4001
Loudspeaker: PASO SM35
Adapter: $\varnothing 12.0$ mm
Noise frequency spectrum: Pink Noise

Result:

Background noise: < 40 dB (A)
Measuring distance: 100 mm
Noise level without silencer: 100.2 dB(A)
Noise level with silencer: 79.0 dB(A)
Silencer effectiveness: 21.2 dB

