

Effectiveness of F2D Silencer

Test report number: 005 version 01 URL: <http://www.f2d.dk/noise/test/005-01.pdf>

Test:

Test by: Henning Forbech
Data: 05-07-2011
Place: Herning, Denmark
Temperature: 21 °C
Air pressure: 1016 hPa
Humidity: - %

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)

Silencer:

Manufacturer: (FORA?)
Designer (FORA?)
Owner: Henning Forbech
Type: Simple chamber
Outlet: ø6 mm (2011 rules)
Inlet: FORA rubber
Internal volume: - ml
Total length: 60.7 mm
Max outside diameter: ø 27.6 mm
Comment: From Chorny

Noise generator:

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

Result:

Background noise: < 50 dB (A)
Measuring distance: 100 mm
Noise level without silencer: 100.2 dB(A)
Noise level with silencer: 93.7 dB(A)
Silencer effectiveness: 6.5 dB

