Polyline Industries - Silencer Test Results

Fan type tested: Twin 45 kW Howden

Silencer length: 1.8m each

Overall fan length: 4.9m (incl. intake/exhaust cones)

Silencer weight: Approx. 105kg (including bell and cone end fittings)

Average db(a) rating of fan unsilenced: 105.2db(a) at 1 metre (including line of sight at intake and exhaust)

Average db(a) rating silenced at 1 metre: 88.9 db(a) average (at 1 metre the reflective influences were negligible)

Average at 3 metres:
There was a significant reduction at 3 metres in the high 70 db(a).
The amount reduced would be even greater in a free field condition whereas the actual test conditions included significant reflective surfaces (e.g. factory wall and plant machinery)

Noise level average reduction at 1 metre:
16.3 db(a) average decrease at 1 metre (inclusive of line of sight at intake and exhaust)

All tests were undertaken by
Trevor Holland (Dip Mech Eng, Grad A.A.F.) from Industrial Noise Control Pty. Ltd.
and duplicated using the same location and conditions.