

## *ADDENDUM TO REPORT EE0214*

### *“ACOUSTIC NOISE MEASUREMENTS OF AIR SOURCE HEAT PUMPS”*

*SEPTEMBER 2011*

The final section of the report makes recommendations for reducing acoustic noise emission from air source heat pumps. Some manufacturers have already taken steps to reduce acoustic noise from air source heat pumps. In particular, Manufacturer C has stated that new designs incorporate the following elements:

1. Larger diameter fans have been selected. These operate at a reduced speed, resulting in lower noise levels.
2. The compressor chamber has been acoustically lined, as have the lid and fan panel, with a 25mm thick insulation designed specifically for low frequency noise absorption.
3. The fan panel, lid and base have been strengthened by adding strengthening ribs in required planes to add stiffness and reduce vibrations.

The resulting sound power level has fallen by between 6 and 12.5 dB(A) (depending on the model selected).

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