



Sound Level Test

Burlington, Ontario, December 5, 2005

To whom it may concern

Four Stoper drills were run at full throttle in the shop and tested for sound levels. The SAL67MIC Stoper was found to be the quietest of the four drills tested.

Level Readings:

New Parts HeadQuarters Inc SAL67MIC Muffled Stoper@ 90psi.....113.5 dB
New Parts HeadQuarters Inc SAL67MIC Muffled Stoper@ 100psi.....115.6 dB
New Parts HeadQuarters Inc SAL67MIC Muffled Stoper@ 110psi.....116.5 dB

New Parts HeadQuarters Inc SAL60MIC Muffled Stoper@ 90psi.....113.5 dB
New Parts HeadQuarters Inc SAL60MIC Muffled Stoper@ 100psi.....115.5 dB
New Parts HeadQuarters Inc SAL60MIC Muffled Stoper@ 110psi.....117.0 dB

Used Parts HeadQuarters Inc SAL60SMC Muffled Stoper@ 90psi.....115.3 dB
Used Parts HeadQuarters Inc SAL60SMC Muffled Stoper@ 100psi.....117.0 dB
Used Parts HeadQuarters Inc SAL60SMC Muffled Stoper@ 110psi.....118.5 dB

Parts HeadQuarters Inc PHQ250SMCSR Muffled Stoper@ 90psi.....116.0 dB
Parts HeadQuarters Inc PHQ250SMCSR Muffled Stoper@ 100psi.....118.0 dB
Parts HeadQuarters Inc PHQ250SMCSR Muffled Stoper@ 110psi.....118.8 dB

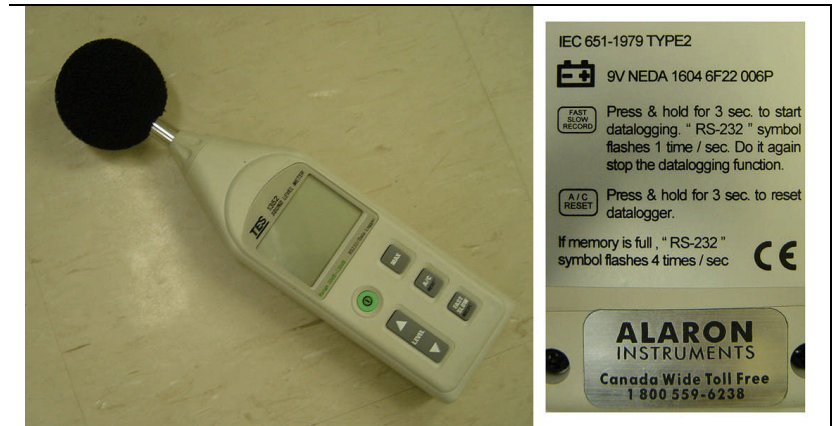
PHQ is in the process of developing a new muffler for the MIC model drills that we believe will further reduce the noise levels. The new muffler is designed in such a way that it can easily be installed and removed in the shop. Any existing MIC model drills that are purchased could easily be converted to use of the new muffler. It will simply require zippy cutting the existing metal muffler from the drill and snapping the new muffler into place. We expect the new design muffler to sell at a very nominal cost.

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Instrument

The instrument used for testing sound levels is manufactured by Alaron Instruments.

Model IEC 651-1979 Type 2 shown here



Test Method

The same test method was used for all four Stoper drills.

As shown in the photograph to the right, the portable test instrument was held just behind the operator's head above the shoulder and near the operator's left ear.

Four models of pneumatic Stoper drills were run in turn with the test instrument in the same position each time.

Each drill was run at full throttle by the operator for a period of one to two minutes, while simultaneously raising and lowering the leg.

Each drill was run for that period of time and at varying recorded air pressures of 110 psi, 100 psi, and 90 psi.

Each time a Stoper drill was run the maximum reading achieved on the Alaron sound testing equipment was recorded. The readings documented by PHQ are not average readings over the period of time, but are the maximum level reached during the run.

