

## Guidelines for Hearing Protection whilst using Low and High Pressure Blast Nozzles with a System 2000 dry ice blast unit.

Please note that the Operating Manual supplied with the blast unit must be studied in detail and fully understood before using this equipment and these guidelines.

Each blast unit is supplied with a set of high attenuation earmuffs and several soft disposable earplugs. The manufacturer of the equipment supplied may vary subject to availability, but will always be acoustically equivalent to, or better than, the products specified in the test figures below.

To ensure that operators and all persons in the neighbourhood of the blaster are properly protected against the blast noise it is essential that both the soft earplugs and the earmuffs be worn together. The soft earplugs should be inserted as shown on the packaging before putting on the earmuffs.

The use of high attenuation earmuffs with soft disposable earplugs has been certified to provide the attenuation figures given below which, subject to blaster background noise levels, should be sufficient to protect operators from blast noise. The use of other combinations with lesser attenuation values or the use of uncertified protection equipment is not recommended.

Hz	63	125	250	500	1K	2K	4K	8K	SUM
Blaster base level as measured *	85	80	82	91	101	112	120	122	124.3
Assumed protection Value**	28.5	28.3	32.3	41	42.6	36.3	49.2	40.3	
<b>Final level</b>	<b>56.5</b>	<b>51.7</b>	<b>49.7</b>	<b>50</b>	<b>58.4</b>	<b>75.7</b>	<b>70.8</b>	<b>81.7</b>	<b>82.5</b>

\* Base level is the measured spectrum for a System 2000 Blaster with TV750/HP/00 Nozzle operating at 9 bar in a sound-insulated enclosure at 1 metre from nozzle exit.

\*\* Assumed Protection Value is the Mean Attenuation, after deduction of Standard Deviation, provided in INSPEC Laboratories Ltd Report HP/94/29 on the attenuation achieved with LM77 muffs and Max plugs supplied by Howard Leight (Europe) Limited.

All figures are in dB except for summations which are in dB(A)

### IMPORTANT NOTE:

Failure to comply with these guidelines may result in operators being exposed to higher than acceptable noise levels.

**Users must by law ensure that all personnel able to hear the blast noise are adequately protected.**