

Sound level Test for Xlerator Hand Dryer

On 9th May 2006 sound tests on the Xlerator hand dryer were conducted using a dual range precision sound meter. Both the Xlerator with the 1.1 inch nozzle and the Xlerator with the 0.8 inch nozzle were mounted on tripod's whilst the test were conducted.

Hands were wet and then placed under each dryer whilst the sound meter was placed within 150mm of the ear of the person drying their hands and levels were recorded for the entire duration of the dry cycle which ranged from 9-12 seconds. This experiment was repeated 15 times for each dryer with 3 people of varying heights.

Readings were taken without hands present, covering the sensor alone and with hands present at a range of distances from the air outlet from 0 to 150mm.

On 15th May 2006, further sound tests were conducted on both the World Dryer A series and the Airdri Classic. Both dryers were fitted to a solid wall.

Hands were wet and then placed under the dryer whilst the sound meter was placed within 150mm of the ear of the person drying their hands and levels were recorded for the entire duration of the dry cycle which ranged from 39-51 seconds. This experiment was repeated 15 times for each dryer with 3 people of varying heights.

Readings were taken without hands present, covering the sensor alone and with hands present at a range of distances from the air outlet from 0 to 150mm.

Results

Below is a summary table of the results of the sound level tests.

The 'No Hands' column indicates the sound level of the dryer with no object in the path of the air movement, merely the dryer being activated.

The 'Minimum' column indicates the lowest sound level recorded whilst hands were being dried.

The 'Average' column indicates the mean of all of the levels recorded for that particular dryer.

The 'Maximum' column indicates the highest sound level recorded throughout the test.

	Xlerator 0.8" Nozzle	Xlerator 1.1" Nozzle	World Dryer A-Series	Airdri Classic
No Hands	77.3 Db	76.4 Db	84.5 Db	84.3 Db
Minimum	84.6 Db	77.8 Db	84.5 Db	85.2 Db
Average	87.8 Db	80.4 Db	85.6 Db	85.2 Db
Maximum	92.1 Db	83.6 Db	86.1 Db	86.6 Db