

Request No: LM:2014819:1246

Date: August 2014

TECHNICAL REPORT

Introduction.

Dowding & Plummer sent a Victor V9 vacuum cleaner for testing in the vacuum cleaner test rig.

Method.

The dust emission of the vacuum cleaner was tested in line with IEC60312 section 2.10.

The flow of the cleaner was measured, and from this a quantity of dust to give a mean concentration of 550mg/m³ in the suction hose was calculated.

The cleaner was then installed and sealed into the test chamber.

With the particle counter set to the vacuum program, the dust feeder and vacuum cleaner were switched on simultaneously with the commencement of measurement from the particle counter. At the end of each two minute dust emission measurement cycle, the results were entered into a spreadsheet used to calculate the dust emission from the cleaners exhaust.

Results.

Flow (m ³ /min)	1.88
Flow (l/sec)	31.3
Average Dust emission (mg/m ³)	0.0087
Average Cleaner efficiency (%)	99.9984
Average Re-admission (%)	0.0016

Comments / conclusion.

The vacuum cleaner achieved the 99.9962% efficiency required and the re-admission percentage meets the EU ecodesign limit of 1% maximum.