

What is EUnited Municipal Equipment?

EUnited Municipal Equipment is the European industry association representing the main manufacturers of mobile municipal equipment like road sweepers, refuse collection vehicles, snow ploughs, salt spreaders and others.

Where can I get further information?

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EUnited Municipal Equipment is a sector group
of EUnited aisbl – the European Association of
the Engineering Industry



The new PM10-Test
of EUnited Municipal
Equipment

Information

PM10-Test

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Why a new PM10-Test?

Launched in 2007 the PM10-Test and the label of EUnited Municipal Equipment soon became the unchallenged European benchmark for the performance of road sweepers with regard to dust particulates. All leading manufacturers had agreed to perform the test with their machines and by this indicate to customers their ambitions to support municipalities in their fight for clean air. Customers all over Europe recognize today the value of the label.

The European industry has now joined forces with a well-known research center and a leading test facility. With their experience we have further developed this test. The result is the launch of a new test procedure and labeling that ensures an even stricter test and better repeatability, but also provides customers with more information by defining 3 performance levels based on the test.

What is new in the labeling?

The new test not only defines minimum requirements to pass the test, but enables to group the performance of the tested sweepers in 3 levels. These levels are indicated by stars from one to three. Sweepers marked with one star have to comply with the high standard specifications of EUnited. The second and third star are a premium:

the labeling with two stars indicates that – at comparable sweeping efficiency – the concentration of particulates in the air after the test was at least one third below the defined maximum concentration. For sweepers marked with three stars the test results showed a concentration of particulates even two-third below the limit value.

The label will be provided exclusively by EUnited Municipal Equipment for sweeper models for which the detailed results of the test performed by a qualified test institute prove that it fulfills the defined requirements. All models which have passed the test will also be listed on the EUnited Municipal Equipment website.

2012 will be a year of transition: Many manufacturers started testing according to the new test procedure and first models are marked accordingly. As the testing of all models needs time, the old label is still used for the year of 2012 for those sweepers which have passed the old but not yet the new test procedure. From 2013 onwards labeling by EUnited Municipal Equipment will only be based on the new test.

What's new in the test procedure?

The efforts in the revision focused on the repeatability. The test takes place now in a controlled environment, excluding the effects of weather conditions. Sweepers run a defined test track four times under realistic working conditions including the passing of a curb.

The results are measured regarding the airborne concentration of particulates resulting from the sweeping of defined test material and also the removal efficiency. The test allows the use of dust suppression systems for sweepers equipped with this technology and can be applied equally to truck-mounted or self-propelled sweepers as well as attached or towed sweeping equipment. All details of the sweeper are recorded.



Which manufacturers of road sweepers support this test?

Almost all European road sweeper manufacturers are a member of EUnited Municipal Equipment. The list of members who have already performed the new test for some of their models includes Aebi Schmidt, Ausa, Boschung, Brodd, Bucher Municipal, Comac, Dulevo, Faun, Fayat Group (Mathieu, Ravo, Scarab), Hako, Johnston Sweepers, Kärcher, Nilfisk-Egholm, M-U-T, Sicas Euroclean, Tennant and Trilety. All these companies have agreed to use the EUnited PM10-Test to test and mark their relevant machines. By this a unique European-wide comparable test has been established.

Who are the partners for the new test?

The new EUnited PM10-Test procedure has been developed on behalf of EUnited Municipal equipment by PAMI, the most experienced research and test institute for this subject, located in Canada. PAMI has also been involved in the North-American tests used eg in California and the city of Toronto.

For the practical tests EUnited Municipal Equipment has partnered with SGS Fresenius, an experienced testing house. SGS Fresenius performs all the measu-

rements of the tests on behalf of EUnited Municipal Equipment and provides EUnited with the detailed results of these tests. Based on these results EUnited Municipal Equipment then grants the label and certificate.

What is PM10?

PM10 covers all kinds of particulates with an aerodynamic diameter of 10 µm maximum. Such small particles arise out of the burning of fuels, abrasion of vehicle tyres, industrial processes as well as out of raised soil material and further natural emission sources. PM10 which could cause respiratory disease has been identified as a major health hazard within the last years.

