THE CANADIAN ENVIRONMENTAL TECHNOLOGY VERIFICATION PROGRAM

Enhancing the Credibility of Environmental Technologies

TECHNOLOGY VERIFIED: TYMCO Model DST-6 Dustless Regenerative Air Street Sweeper

Performance Claim

The TYMCO Model DST-6 Dustless Regenerative Air Street Sweeper was operated according to the vendor's specification at a speed limit of about 5 km/h in a controlled space where no water or any other liquids were permitted. No water sprays or gutter broom shrouds were used in the testing.[1]

The sweeper was delivered in its optimum balance of dry dustless operational mode while also maximizing the pick-up and removal of test material (mean size of test material is 3 microns),

The TYMCO Model DST-6 Dustless Regenerative Air Street Sweeper achieved the following:

1. A removal efficiency of test material from surface greater than 90% (90% confidence);
2. Deposit on sidewalk efficiency less than 0.16% (95% confidence);
3. Maximum concentration of PM_{10} air contamination less than 0.08 $mg \cdot m^{-3} \cdot kg^{-1}$ (95% confidence);
4. Total concentration[2] of PM_{10} air contamination less than 10.0 $mg \cdot m^{-3} \cdot kg^{-1}$ (95% confidence);
5. Maximum concentration of $PM_{2.5}$ air contamination less than 0.02 $mg \cdot m^{-3} \cdot kg^{-1}$ (95% confidence); and
6. Total concentration of $PM_{2.5}$ air contamination less than 5.0 $mg \cdot m^{-3} \cdot kg^{-1}$ (95% confidence).

[1] As listed in "Street Sweeper Efficiency Test Report – Tymco DST – 6 dated January 20 2006 from City of Toronto, Transportation Services, and Environmental Services.

[2] Total concentration calculated by summing the 1200 readings taken as 1 second intervals over a 20 minute period starting at about 5 minutes before the maximum reading following the sweeper's pass and divided by the kilograms of material picked up and entrained inside the hopper.

RENEWAL OF VERIFIED* PERFORMANCE:
July 2014

Renewal License Number: ETV 2014-03

Issued to: TYMCO, Inc.

Expiration Date: July 31, 2017

John D. Wiebe, PhD
Executive Chairman

GLOBE PERFORMANCE SOLUTIONS

Canada

*Refer to Technology Fact Sheet for additional information on the verification of this performance claim.