AIR TECH SYSTEMS

LTG Fahrtwind-Simulators

New simulation solutions with realistic air distribution

LTG Fahrtwind-Simulators are in use in automotive test labs globally. Benefit from our 20 years of practical experience in wind simulation from over 300 reference systems.

LTG Fahrtwind-Simulator
for SC03 vehicle tests according to CFR § 1066.

NEW

Type VRSF 1120

SC03 Fahrtwind-Simulator up to 60 mph as a system solution for use with roller type dynamometers.

- Implementation of a uniform and realistic air distribution via an airstream optimized outlet nozzle with outlet area (H x W) 39.4 x 67 inches (1000 x 1700 mm).
- Adjustable air outlet height from 6 to 18 inches (150 to 450 mm) above the ground permits wind simulations for larger vehicles such as SUVs and vans.
- For ambient temperatures from -40 °F to 122 °F (-40 °C to +50 °C) with the simulator control and operating panel in a separate control cabinet for installation outside the test cell.
- Simulations up to 60 mph utilizing a high-performance radial fan.
- Device operation from the dynamometer via the signal interface or by direct control using the integrated touch panel.
- Installation of an optional attachment nozzle will give higher speeds up to max. 90 mph (145 km/h) for CFR§1066 tests and up to max. 84 mph (135 km/h) for WLTP tests.

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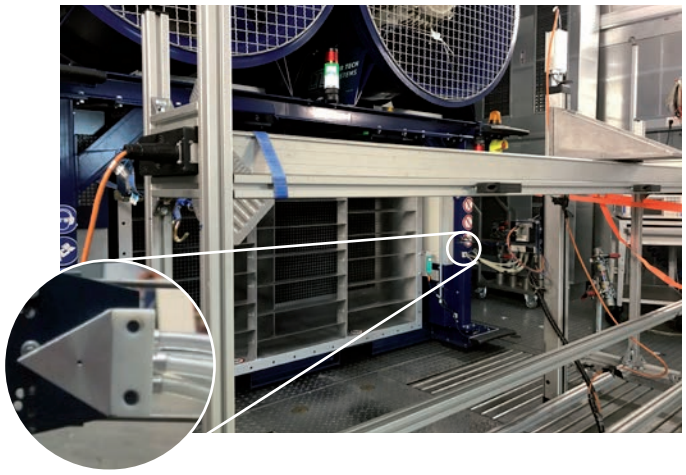
Type VAF 2 x 1120 SC03 Fahrtwind-Simulator up to 60 mph in compact mobile design for roller type dynamometers.

- Mobile blower unit with two axial fans and aerodynamically optimized airflow duct permits SC03 simulations up to 60 mph, specifically designed for dynamometers with tight space requirements.
- For operation from 32 °F to 104 °F (0 °C to +40 °C) with simulator control and power supply via separately positioned control cabinet with plug connection.
- Device operation from the dynamometer via the signal interface or direct control by touch panel on the control cabinet.
- Air distribution via a flow straightener module with air outlet area (HxW) 39.4 x 66.9 inches (1000 x 1700 mm) meets the requirements of CFR §1066.
- Optional monitoring of the device positioning via battery-powered safety switch rails and warning lights activated when required.
- Optional measurement of the vehicle distance as well as temperature and humidity measurement in the airflow during the simulation.

Calibration measurement of the Fahrtwind-Simulator according to CFR § 1066 inside the test cell.

- Measuring the uniformity of the actual airflow distribution:

  Measurement of the air velocity in the axial direction and perpendicular to the axial air flow direction at dynamometer speeds of 32 and 64 km/h (corresponding to 20 and 40 mph) using a wedge type probe.
- (Re-) calibration of air velocity depending on roller speed.
- Optimized measurement equipment to minimize the dynamometer downtime and increase the measurement accuracy.
- Provides written evidence.
- Also available for other brands.



LTG Incorporated
105 Corporate Drive, Suite E
Spartanburg, SC 29303
USA
Tel.: +1 864 599-6340
Fax: +1 864 599-6344
E-Mail: info@LTG-INC.net
www.LTG-INC.net