AIR TECH SYSTEMS

LTG Fahrtwind-Simulators

New simulation solutions with realistic air distribution

LTG Fahrtwind-Simulators are in use in various (automotive) areas. 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

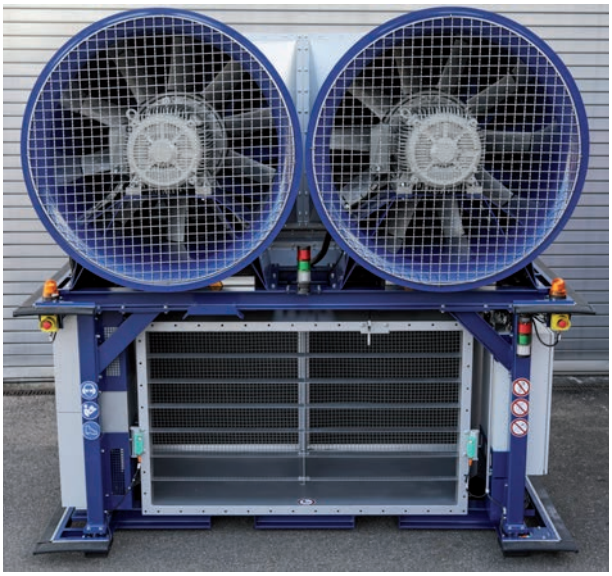
NEW

Type VRSF 1120 — SC03 Fahrtwind-Simulator up to 60 mph as system solution for installation in roller test benches

- Implementation of a uniform and realistic air distribution via airstream optimised outlet nozzle with outlet area (H x W) 1300 x 1300 mm
- Variable adjustable air outlet height from 150 to 450 mm above the ground permits also 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.

AIR TECH SYSTEMS

Type VAF 2 x 1120 SC03 Fahrtwind-Simulator up to 60 mph in compact build for mobile introduction in roller test benches



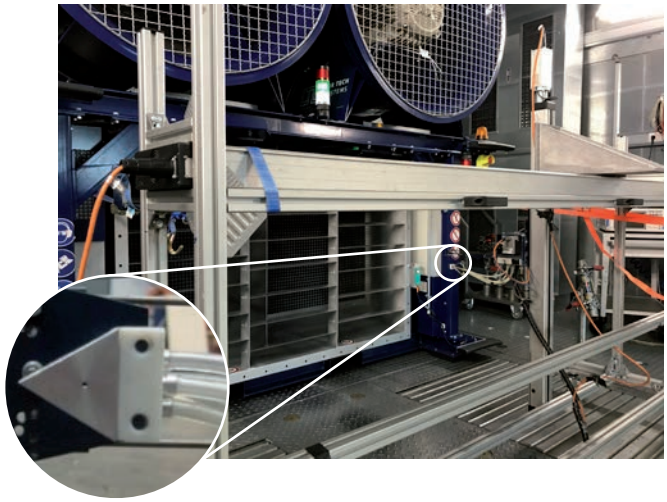
- Mobile blower unit with two axial fans and aerodynamically optimised airstream channel permits SC03 simulations up to 60 mph, also for test benches with low space demand
- For operation from +0 °C to +40 °C with simulator control and power supply via separately positioned control cabinet with plug connection
- Device operation from the test bench via the signal interface or direct control by touch panel on the control cabinet
- Air distribution via rectifier module with air outlet area (HxW) 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 tripping 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-technical identification of the actual airflow distribution:

  Measurement of speed axis (vertical and horizontal)

  to the axial airflow at roller speeds of 32 and 64 km/h (corresponding to 20 and 40 mph) by wedge type probe
- (Re-) calibration of air velocity depending on roller speed
- Optimized measurement equipment to minimize the dynamometer occupancy and increase in measurement accuracy
- Including written evidence
- Also available for other brands



LTG Aktiengesellschaft
Grenzstrasse 7
70435 Stuttgart
Germany
Tel.: +49 711 8201-0
Fax: +49 711 8201-720
E-Mail: info@LTG.de
www.LTG.de

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

www.LTG.net