

ALTITUDE SIMULATION

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MEDAS Altitude Simulation

The MEDAS system is a compact altitude simulator that reproduces a wide range of environmental conditions. It is suited for a variety of testing applications, including durability, RDE replication, emission tests and mapping. MEDAS can be used for tests from component to vehicle level. The patented technology inside the MEDAS allows dynamic changes on the simulated atmosphere with high accuracy. Additionally, the system can be moved between different test cells due to its compact design.







FEATURES

- » Suitable for different test cell configurations (e.g. engine, vehicle, powertrain)
- » Full integration with test cell control through CAN
- » Two MEDAS systems can be coupled in parallel to multiply the mass flow
- » No limit on minimum engine flow rate
- » Additional options available, e.g. noise insulation

KEY BENEFITS From the Road to the Laboratory

The MEDAS system increases flexibility by offering a modular design, which can be adjusted for a wide range of different test environments and possible applications. It allows any worldwide atmospheric condition to be reproduced inside the test cell. For a complete real driving correlation, an integration with other testing equipment is possible.

- - » Flexible concept with extended temperature and humidity modules
 - » Can be moved between different test cells
 - » Suitable for a range of applications

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- » Can simulate changing ambient pressure, temperature and humidity
- » Very fast response time for replication of real driving tests

- » Precise and repeatable, even during high engine dynamics
- » Patented design and internal algorithms reduce power requirements

SPECIFICATIONS

System	Mass flow [kg/h]	Pressure		Temperature	Humidity	Δp area
		Vacuum	Overpressure	Temperature	numunty	[m]
MEDAS-5012 V	1,200	\bigcirc	\bigcirc	Limited	\bigcirc	700
MEDAS-5012 VO	1,200	\bigcirc	۲	Limited	\bigcirc	700
MEDAS-5015 V	1,500	\bigcirc	\bigcirc	Limited	\bigcirc	350
MEDAS-5015 VO	1,500	\bigcirc		Limited	\bigcirc	350
MEDAS + MTM ST	900/1,200/1,500		۲	۲	Limited	None
MEDAS + MTM HU + MHM	900/1,200/1,500		۲	۲	۲	None

System available in sizes from $2,050 \times 1,150 \times 1,645$ to $2,800 \times 1,150 \times 1,645$ mm (LxWxH), excluding temperature and humidity modules

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ASIA

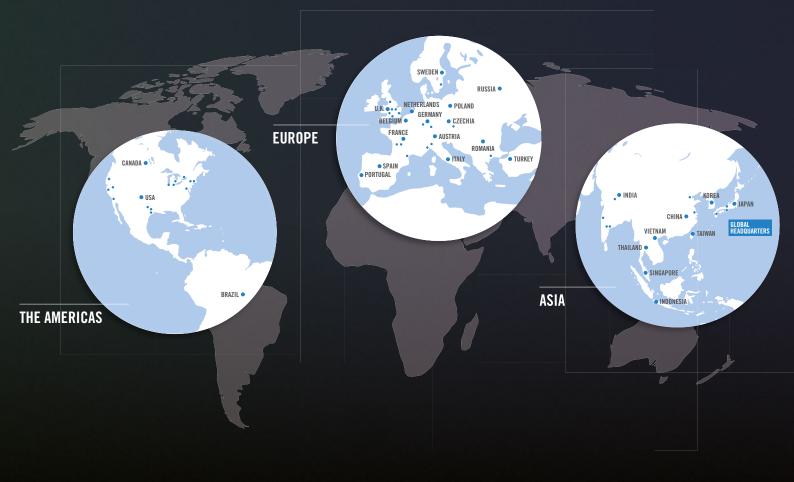
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