DRIVE-IN VEHICLE TEST CHAMBER

ETC's Drive-in Chambers simulate a wide range of environmental conditions and can include options such as heated road, solar, and velocity simulation.

Constructed of modular insulated panels to form a completely, air-tight, enclosure, each Drive-In Vehicle Test Chamber has walls, and ceilings specifically designed to withstand stresses of expansion and contraction. Each heavy duty chamber floor is manufactured with steel channels and diamond plate to guarantee the most rugged construction available. The floor itself is designed for compatibility with an existing structure, and interfaces with the dynamometer pit.

VEHICLE TEST CHAMBER **SPECIFICATIONS**

APPLICATIONS

Internal Combustion Engine (ICE)
E-Vehicle
Battery
R&D and emissions certification testing, Alternate Fuel Development, Noise and Vibration, and Harshness (NVH)

FEATURES

TEMPERATURE

Dry Bulb Range	-40°C to 60°C, ± 1°C
Spatial Uniformity	± 2°C

HUMIDITY

Range	10% to 95% RH (limited to 5°C min. and 30°C max. dp)
Control	± 5% RH

VELOCITY SIMULATION

Range	Up to 200Km/h
Nozzle Sizes	Various

HEATED ROAD SYSTEM

Surface Temperature Range	20°C to 60°C
Area	2m x 2m

SOLAR SIMULATION

Intensity Range	500 to 1200W/m² ±10%
Type	infrared light (or full spectrum)
Typical Area Size	2.5m x 6.0m

ALTITUDE SIMULATION (INTAKE AND EXHAUST)

Site to	5,500 m

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TESTING & SIMULATION SYSTEMS

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