



## New Climatic Chamber

### WORLDWIDE SOLUTION

#### EMISSIONS DEVELOPMENT

- Test cycles at non-standard regulations, at different temperatures, and real driving emissions (RDE)

#### WORLDWIDE EMISSIONS CERTIFICATION

- Expertise in European and EPA (USA) certifications

#### THERMAL & ENGINE PERFORMANCES

- Sunlight simulation lamps for durability testing of vehicle interior and exterior parts
- Driveability activities

#### HEV & EV TESTING

- Battery range efficiency, benchmarking activities, and soaking testing

### WHAT KIND OF VEHICLE WE TEST?

In 2WD or 4WD modes EV, HEV, ICE all of them

### LAST UPDATE:

New Climatic Chamber (2024)

### TEMPERATURE RANGE:

Test cell, from -35°C to +60°C

6 Soaking areas, from -40°C to +60°C



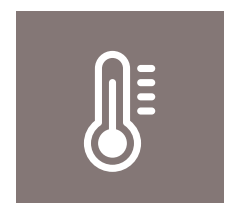
**9**  
PROFESSIONALS



**24**  
HOUR SHIFT



**4WD DYNO**  
**FROM**  
**-35°C TO +60°C**



## CLIMATIC CHAMBER TECHNICAL FEATURES

### SOAKING AREAS

- Soak Room, temperature range: -25°C to +40°C
- Soak Area 1 (2 vehicles), range: -40°C to +60°C
- Soak Area 2 (8 vehicles), range: -20°C to +60°C

### SOLAR SIMULATION STANDARDS

- EPA, IEC 68-2

### EMISSIONS COOLING FAN

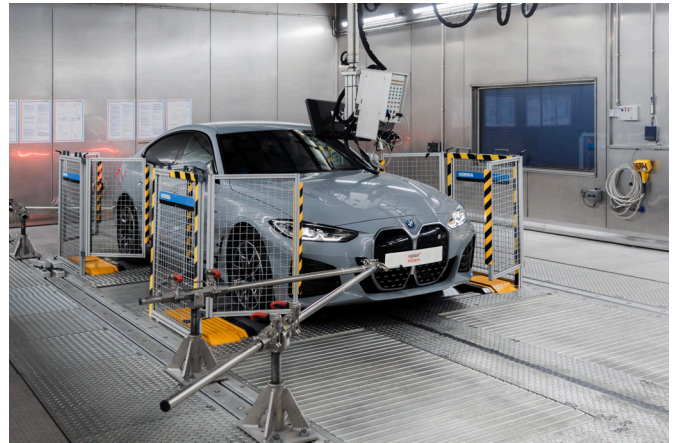
- Supplier: LTG air tech systems
- Constant/proportional speed up to 160km/h

### THERMAL DEVELOPMENT FAN

- Supplier: Witt & Shon
- Constant/proportional speed up to 120km/h

### TEST CELL

- Temperature range: -35°C to +60°C
- Humidity range: +10°C; min. 30% r.h.+45°C; max. 75% R.H.
- Dimensions: 8,08 X 4,20 X 15,28 (meter)



### 4WD CHASSIS DYNO

- Dyno 4WD 48" 2 motors (1 motor per axel)
- Power/force 4WD mode: 500 kW/13.800 N
- Power/force peaks 4WD: 700 kW/19.300 N
- Power force 2WD mode: 355 kW/9.800 N
- Maximum speed: 250 km/h
- Wheelbase range: 1800 to 4400 mm

### GAS SAMPLING

- Horiba CVS-ONE HE [4 – 30 m3]
- Multi venturi from 2 to 30 m3 /min CFV
- 12 Heated bags 4 X air, 4 X dirty, 4 X clean

### EXHAUST GAS ANALYSER

- Horiba Mexa ONE (Bags, Dilute continuous and Pre / Post catalyst raw analysis)
- Horiba Mexa QCL N2O (Bag and Dilute continuous N2O)
- Horiba DLT 7040
- Horiba Mexa 2100-SPCS
- Horiba DLS-7200
- Particulate filter: 47 mm
- Flow Range 30-75 L/min
- Horiba PFS - ONE

### CONTACT INFORMATION

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