



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	24	4WD DYNO FROM
PROFESSIONALS	HOUR SHIFT	-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

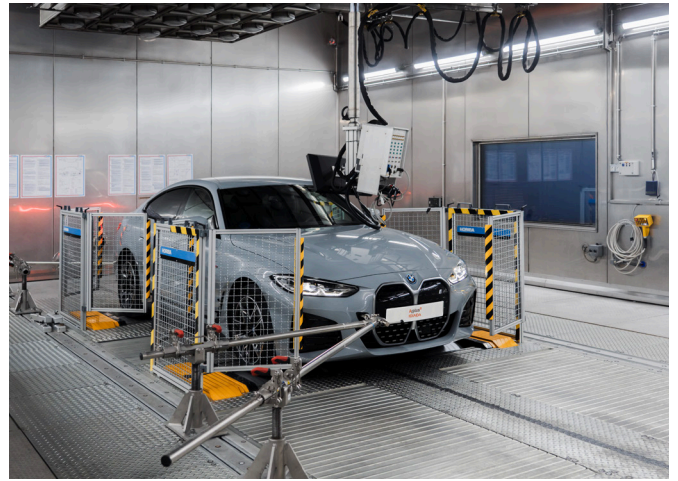


- Supplier: Witt & Shon
- Constant/proportional speed up to 120km/h

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 N20 [Bag and Dilute continuous N20]
- 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

Headquarters & Technical Centre • L'Albornar - PO Box 20 • E-43710 Santa Oliva (Tarragona) Spain

For further details, please contact:  info@idiada.com  +34 977 166 000



www.idiada.com