



Electric touring racecar

An inside look at the CUPRA e-Racer

- > **The battery, weighing 450 kg, is the part that determines the design and location of the remaining elements**
- > **Four engines, located at the rear, succeed in reaching 12,000 rpm and accelerating from 0 to 100 km/h in 3.2 seconds**
- > **The car features an energy recovery system to harness power when braking and decelerating**

Martorell, 19/12/2018. – Looking at what could be described as a multimedia x-ray, a 3D animation takes us on a journey deep inside the CUPRA e-Racer, the world's first fully electric competition touring car. With a year to go before it makes its debut, we examine the bones of this car and its main components:

- **A 450 kg battery, the core element:** It accounts for a third of the vehicle's total weight and is a challenge when developing this model, as explained by the head of engineering at CUPRA, Xavier Serra: **"The battery determines the entire design and position of the remaining elements"**. It is located **"as low as possible so that the centre of gravity is closer to the ground and enhances the car's dynamics"**, he points out. This part is made up of 23 panels with a total of 6,072 battery cells, generating the same power as 9,000 mobile phones connected at the same time.

- **Four 'green' engines':** These are mounted over the rear axle and deliver 680 hp. **"The electric engine is less complicated, more efficient and requires less maintenance"**, says Xavier. The CUPRA e-Racer has a single gear that **"gives us wonderful acceleration, from 0 to 100 km/h in 3.2 seconds and a top speed of 270 km/h"**, explains this engineer.

- **No energy is lost; it is transformed:** This car features an energy recovery system that harnesses energy from braking and decelerating. The steering wheel of the CUPRA e-Racer has



a display panel that the driver and engineers can monitor and transfer a full range of vehicle performance data in real time while driving for efficient energy management.

- **Temperature control:** On the track, the technical team and the driver himself must know how to manage the temperature of the components. This car is equipped with a bespoke cooling system in the radiator, which provides cooling in around 20 minutes. **“There are three independent cooling circuits, as each element has different temperature limits: the battery threshold is 60 °C, the inverters 90 °C, and the engines 120 °C”**, points out Xavier Serra.

- **Final stretch towards a new racing format:** CUPRA engineers and technicians continue to work to get the most out of the car. **“This vehicle generates a lot of energy and we’re working on how to use it efficiently and achieve good lap times”**, explains Xavier. In this sense, regardless of whether the car is equipped with an electric or a combustion engine, the goal is the same: **“to be the fastest and cross the finish line in first place.”** Components and strategy go hand in hand, a combination that will peak in 2020 when the CUPRA e-Racer competes for the first time in the new ETCR Racing format.

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