

# EcoInCure

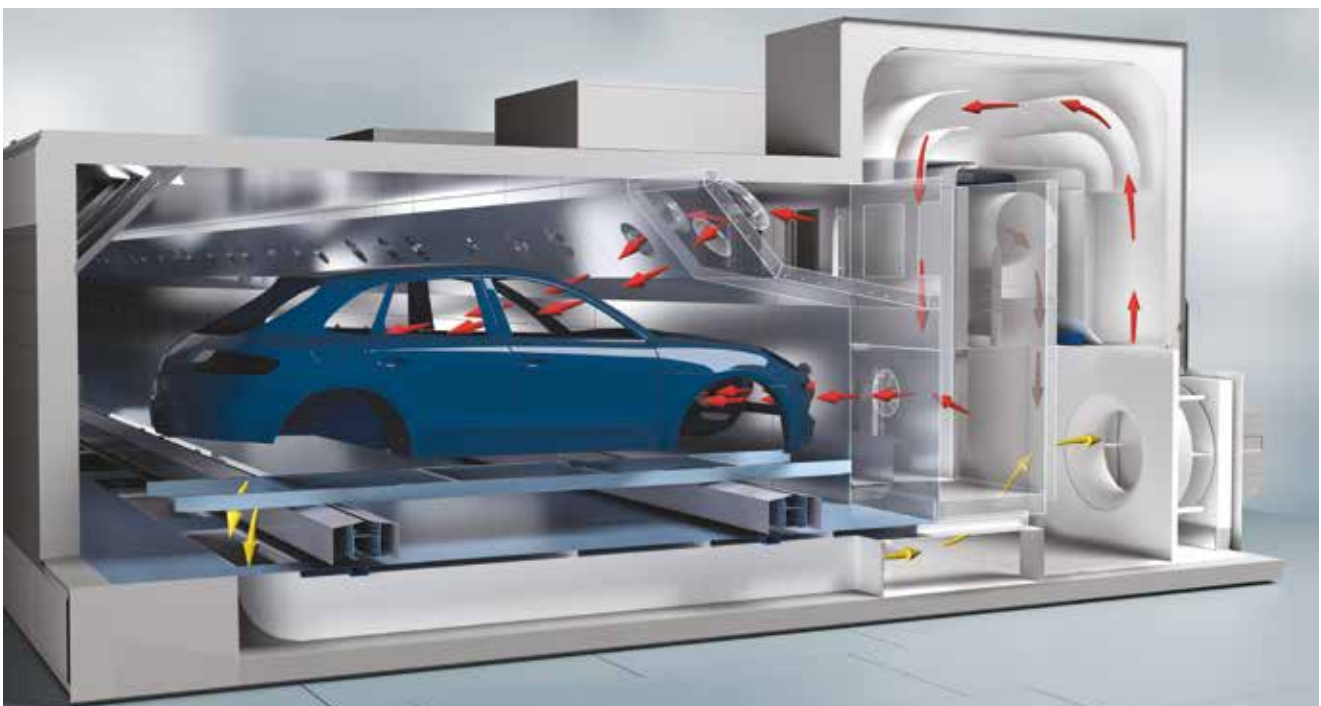
## INNOVATIVE CAR BODY CURING FROM THE INSIDE

**EcoInCure** stands for a new generation of car body curing: The heating and cooling of the car body take place primarily from the inside. This leads to a significantly improved top coat appearance and increased process reliability as well as process efficiency.

Through stop-and-go operation and the possibility to assign every module an individual unit, type-specific heating and cooling processes can be modeled. Transverse transport and integration of the air recirculation units also allow new, more compact layout concepts and a reduction of the electrical energy demand by 25%.

### Advantages

- » Best top coat appearance
- » More uniform and stress reduced heating and cooling behavior of the car body
- » Shorter heat up times
- » Maximum process reliability
- » Type-adapted car body heating
- » New layout possibilities through integrated design
- » Reduction of the electrical energy demand by 25%
- » Software based quality certification for each car body



# EcoInCure – INNOVATIVE CAR BODY CURING FROM THE INSIDE

## Increased process reliability

With **EcoInCure**, heating takes place from the inside using nozzles with high discharge ranges that aim into the car body interior through the opening of the windshield. This flow control is the key for a more uniform heating and cooling behavior of the car body. The heat up time can be shortened with simultaneous reduction of stress to the components.

## More compact layouts

The innovative design with the car body moving transversely halves the oven length of **EcoInCure** compared to conventional ovens. Additionally, the structural steelwork for the air recirculation units is omitted. In combination, this results in new possibilities for space-saving layouts and conversions in existing paint shops.

## Improved topcoat appearance

On the outer shell of the car body, **EcoInCure** works with low flow velocities. Significant improvements with the topcoat appearance can thus be achieved; the quality of topcoat levelling (long wave and short wave) is demonstrably higher.

## Innovative oven heating

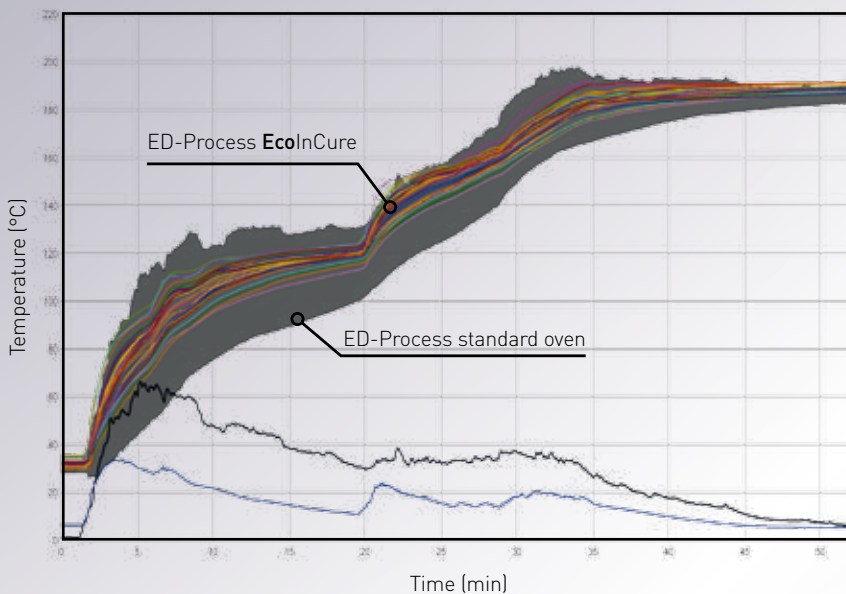
Oven heating with a central heat exchanger is an essential component of the new heating concept. Admixing dampers are used instead of the heat exchangers in the air recirculation units to feed the centrally warmed recirculated heating gas. Recirculated-air control of **EcoInCure** is thus faster and more precise. At the same time, the pressure drops and the total electrical energy requirement decreases by up to 25%.

## Type-adapted car body heating

Stop-and-go operation of **EcoInCure** makes an individual heating and cooling process possible. Depending on the car body, the temperature and volume flow can be adjusted to model the best possible curing process.

## Certified quality

The electronic quality card provides every car body with individual quality certification for the whole curing process. Through the algorithm-supported real-time determination of the temperature course, complex measuring equipment is not necessary. The result is perfect transparency of the curing quality conditions of steel and aluminum hardening for crash safety. The determined data are available through the iTAC.MES.Suite (formerly known as **EcoEMOS**) supervisory control system.



— Maximum temperature difference conventional  
— Maximum temperature difference **EcoInCure**

## Your contact

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