

PATENT PENDING

***COLD START on GAS (CSG)
SYSTEM***

 *by Ing. Daniele Toffanelli*

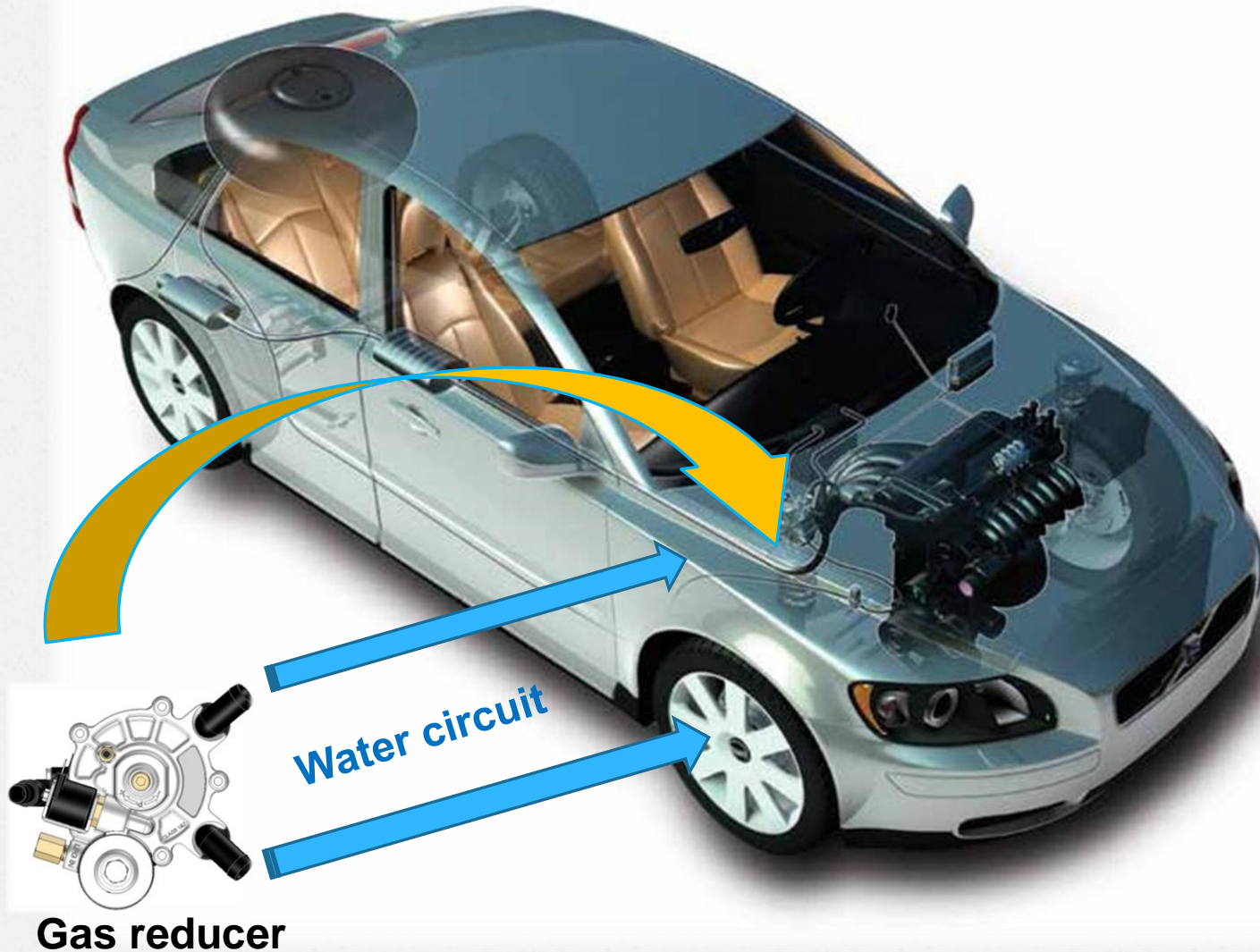


CSG OVERVIEW

- **Cold Start on Gas (CSG) System is an Universal Heater for any LPG/CNG system**
- **CSG System is fitted directly to the water circuit of the LPG/CNG system, close the gas reducer**
- **CSG System allows the cold starting of engine directly on LPG/CNG fuel from -15°C temperature**
- **CSG System cuts the fuel consumption of petrol during the start-up cold phase of the engine**
- **CSG System reduces the fuel consumption and the pollution emissions**
- **CSG System is compatible with any LPG/CNG system**
- **A dedicated ECU manages the gas cold starting process, with smart battery status check (SBSC)**



CSG OVERVIEW



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PATENT PENDING



Ministero dello Sviluppo Economico

Ricevuta di presentazione

per

Brevetto per invenzione industriale

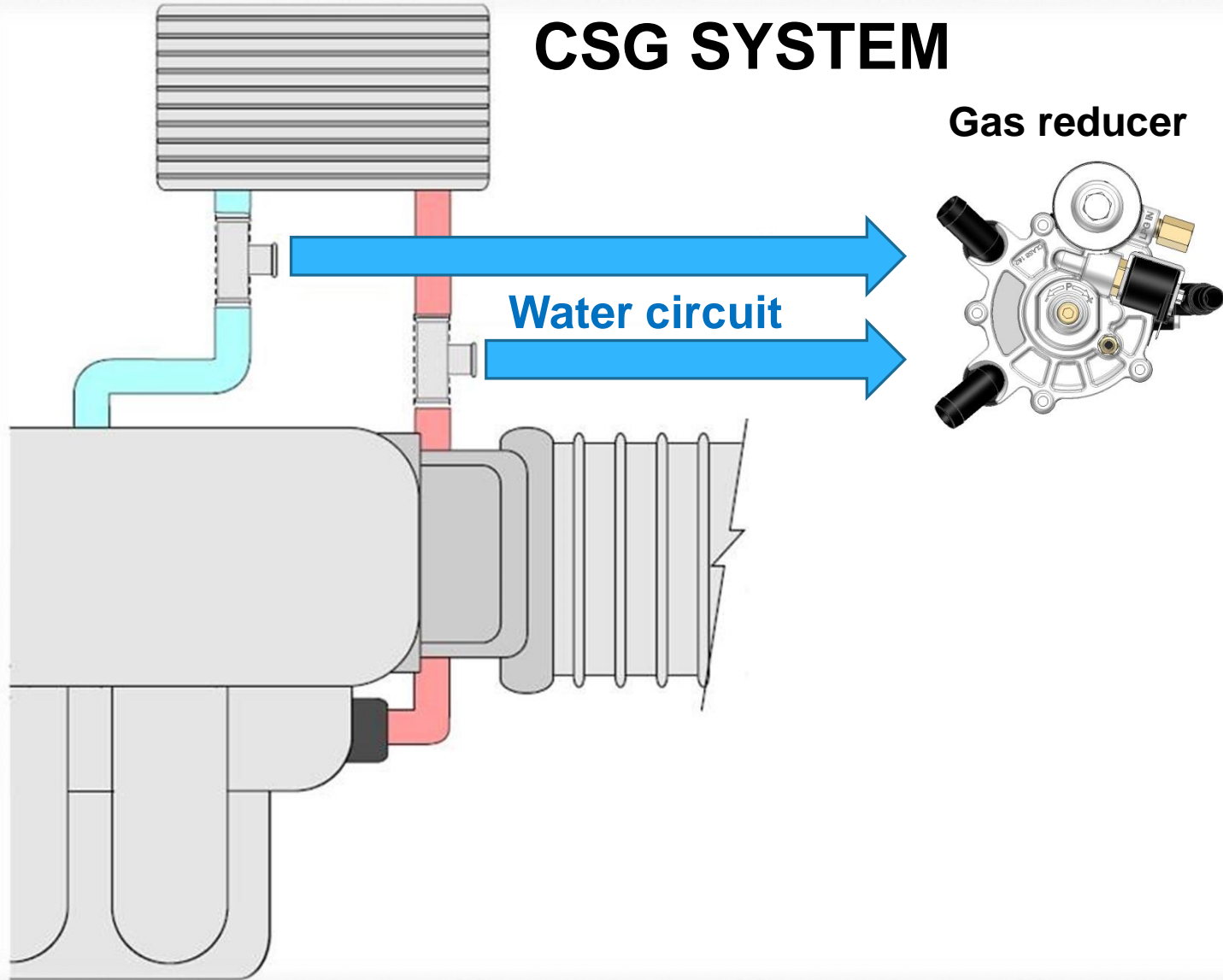


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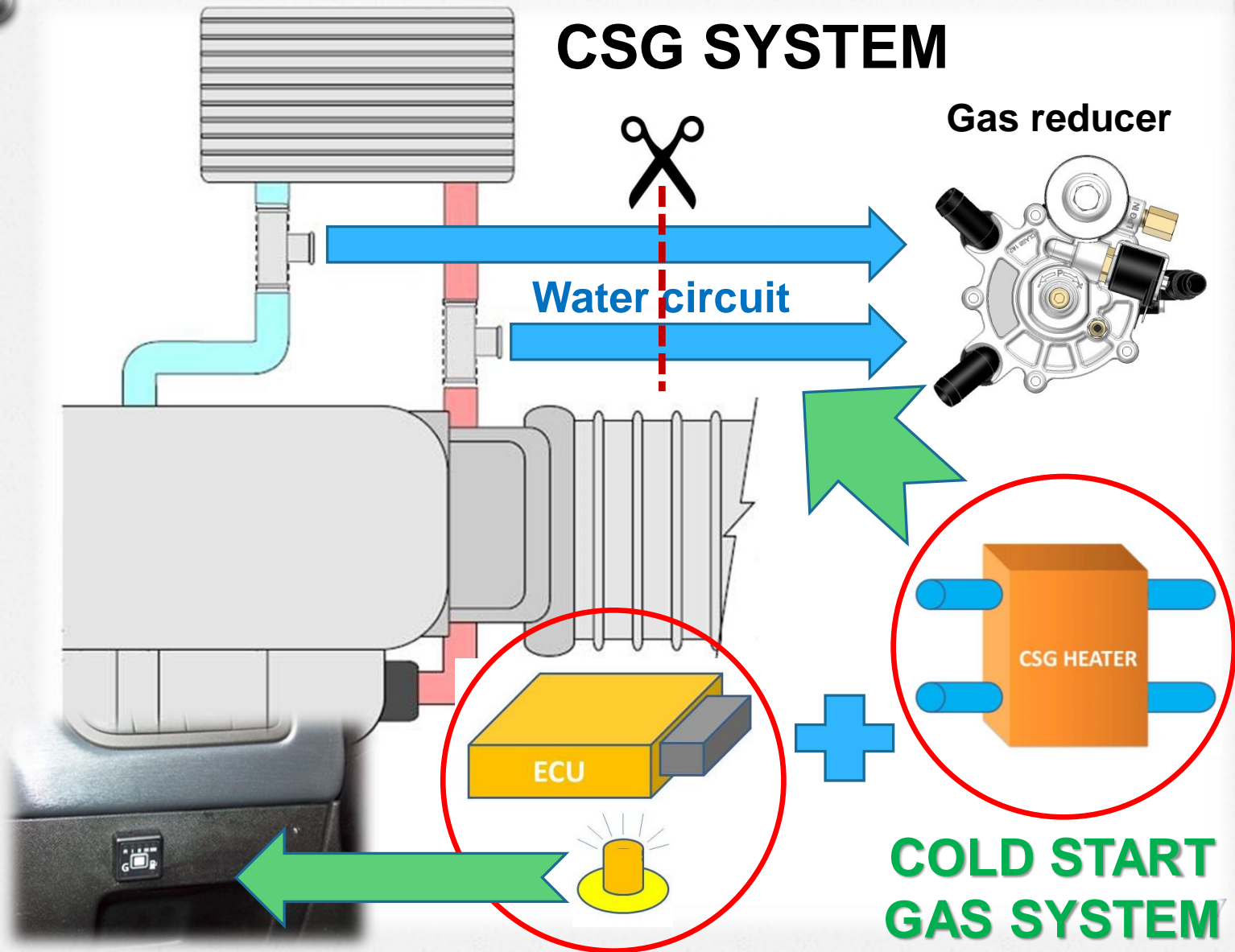
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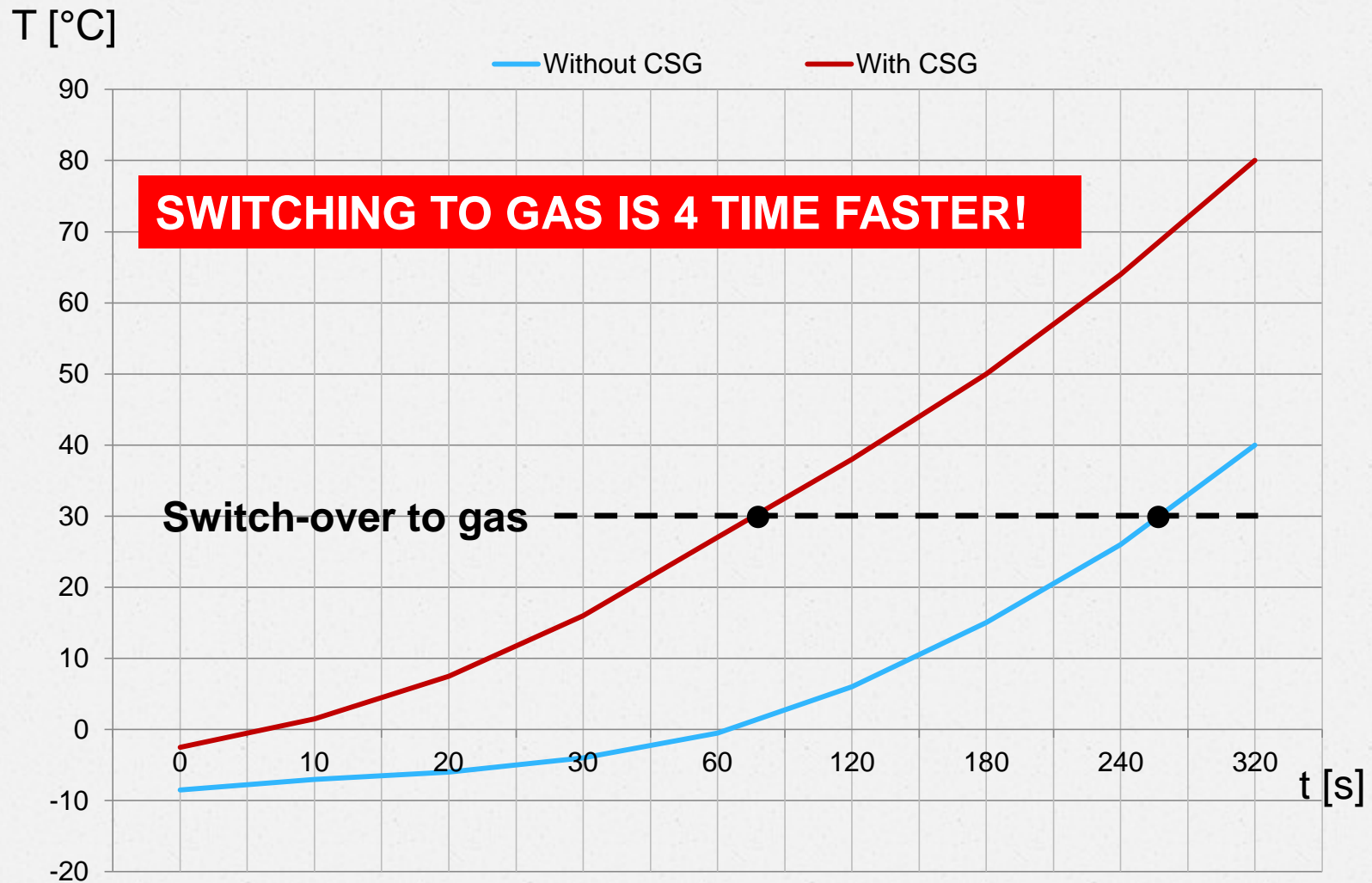
CSG SYSTEM



CSG SYSTEM



Reducer Temperature vs Time



CSG BENEFITS

- **Universal Heater for any LPG/CNG system**
- **Small and compact design**
- **Easy and fast installation close to gas reducer**
- **High performances and sensitive: switching to gas is four time faster**
- **Reduces the fuel consumption and the pollution emissions**
- **High Security due to smart battery status check (MBSC)**
- **Dedicated ECU with Led to inform the driver about the reducer heating process**



CONTACTS

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THANK YOU!

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