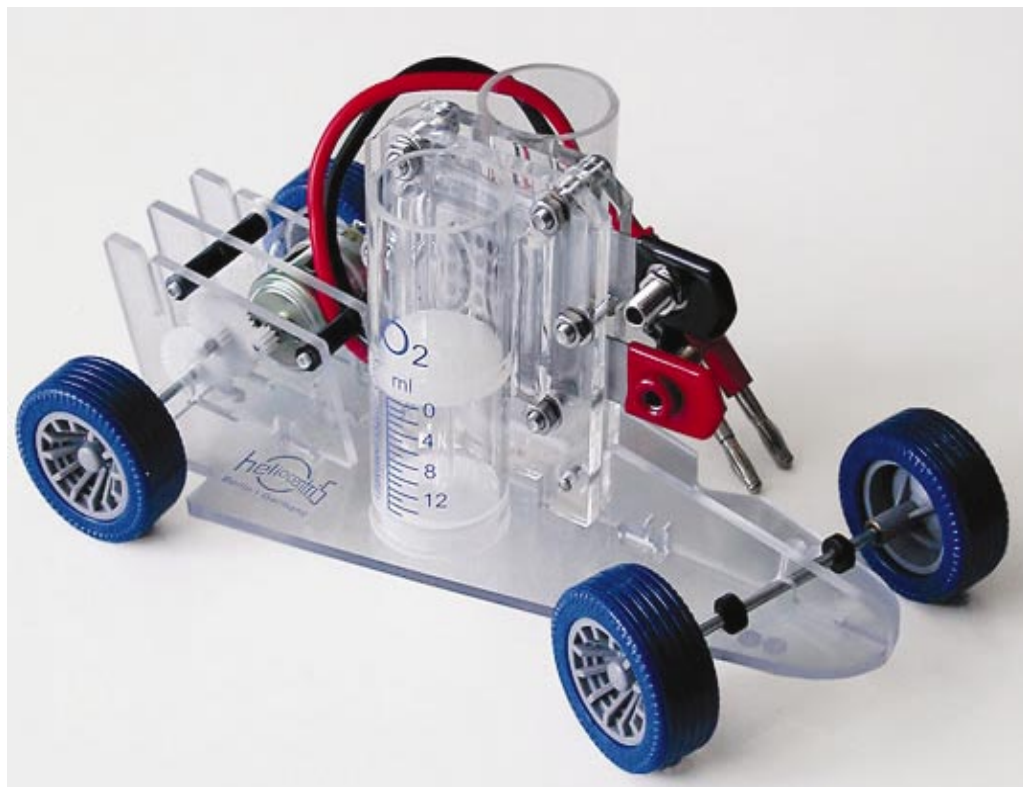


# DR. FUELCELL MODEL CAR DEMONSTRATION

N300-352E

\$219

Expose students to the car of the future with this fun and innovative science kit. Made from durable, high quality components, the Dr. FuelCell Model Car provides a working demonstration of a fuel cell using hydrogen generated from solar energy. The high quality German engineering makes this car a top pick by teachers. By employing a reversible PEM fuel cell, which can work as both an electrolyser and a fuel cell, the car is able to produce its own fuel (hydrogen and oxygen from distilled water) when plugged into a voltage source. When the fuel storage tank is full, flick the switch and the fuel cell is reversed to utilize the stored hydrogen and oxygen to power the vehicle. The components of the car are constructed so that in addition to being a working model car, many experiments can be performed.



## CLASSROOM USE

The robust design, easy setup and included experiment guide make this kit a perfect choice for classroom use. Written by teachers for teachers, the experiment guide includes 8 investigations targeting middle school science curricula. Each investigation includes sections on the theoretical principles of the experiment, a student guide with questions targeting the learning objectives of the experiment, a teachers guide with hints for the teacher, sample results with interpretation of the experiment, and answers to student questions.

## TECHNICAL SPECIFICATIONS

Car Chassis

Dimensions (LxWxH): 210mmx110mmx45 mm

Operation Voltage of Motor: 0.5 - 3V

Reversible Fuel Cell

Dimensions (LxWxH): 72mmx80mmx80mm

Consumption of Distilled Water: 1ml/10h at 300mA electrolysis current

Amount of Water carried from Oxygen to Hydrogen side: 1ml/h at 500mA electrolysis current

Storage Volume of Hydrogen and Oxygen: 15ml each

Normal Working Voltage: 1.4 - 1.8V

Current: 0-500Ma, Hydrogen Production: Max. 3.5ml/min

## INCLUDES:

- Car with reversible fuel cell (electrolyser and fuel cell)
- Solar module to power the fuel cell
- Instructions for the experiments

