

FCJJ-11



Product Description

Horizon's Fuel Cell Car Science Kit enables students to discover the principles behind the real-scale fuel cell vehicles currently being rolled out across the world. A reversible PEM fuel cell first electrolyzes water to separate oxygen and hydrogen molecules. This hydrogen is then converted into electrical energy to power the car. Plus, the car drives itself - capable of negotiating obstacles independent of the user. Cutting edge technology and RC gadget fun in one science kit!

Features

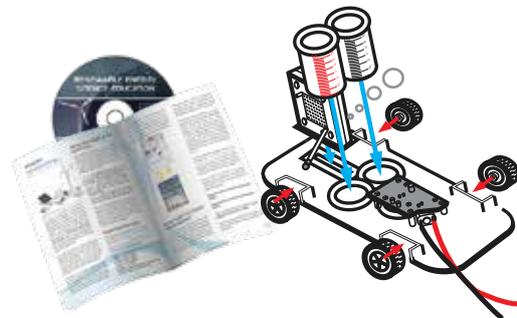


- ✓ Best entry level fuel cell car kit on the market and one of Horizon's best sellers!
- ✓ Clearly demonstrates the science behind electrolysis and the decomposition of water into oxygen and hydrogen.
- ✓ Includes solar panel for powering electrolysis, and complete experiment guide on CD

Language Pack



Experiment & Activities



- ✓ Assembly and operation of the kit
- ✓ The Effect of Heat on Solar Panels
- ✓ The Effect of Shade on Solar Panels
- ✓ The Effect of Tilt Angle on Solar Panels
- ✓ Finding the Solar Panel's Maximum Power Point
- *requires variable resistor module-sold separately
- ✓ Electrolysis Mode Generating Hydrogen and Oxygen from Water
- ✓ Fuel Cell Mode Generating Electricity from Hydrogen and Oxygen
- ✓ Determining the Minimum Voltage for Water Decomposition
- ✓ Polarization States for Hydrogen Fuel Cells



Kit Content

- ✓ Chassis with LED light & motor
- ✓ Reversible (PEM) fuel cell
- ✓ Hydrogen tank
- ✓ Oxygen tank
- ✓ Inner Gas containers
- ✓ 0.75 Watt solar cell
- ✓ 2 x 2mm Connecting leads
- ✓ Battery pack with connecting leads (requires 2 X AA batteries)
- ✓ Plastic plug pins for fuel cell
- ✓ Transparent silicon tubing

Certification

ROHS, EN71:PART1;PART2;PART3, EN55104, HR4040(LEAD), EN61000/EN62115, ASTM/WEE, PHTHALATES, CADIMUM, PSR,

Packing Information

Case Pack Quantity (units):	1
Master Pack Quantity (units):	12
Packaging Type:	cardboard
20' Container (units):	2760
40' Container (units):	6480
Unit Box Length (cm/in) :	30 / 11.8
Unit Box Width (cm/in):	21 / 8.3
Unit Box Height (cm/in):	10 / 3.9
Unit Volume (Cubic Meters/Litres/Feet):	0.01 / 6.3 / 0.35
Unit Box Weight (kg/lbs) :	0.66 / 1.5
Case Pack Length (cm/in):	63 / 24.8
Case Pack Width (cm/in):	45 / 17.5
Case Pack Height (cm/in):	35 / 13.8
Case Pack Volume (Cubic Meters/Litres/Feet):	0.1 / 99.2 / 3.53
Case Pack Weight (kg/lbs):	9.3 / 20.5

Logistics Information

Item UPC-Code:	6942503400069.0
Item HS-Code:	95038082.0
Manufactured in:	Shanghai, China
Local Warehouse:	Prague, Czech Republic Los Angeles, USA
First Ship Date:	available now
Minimum Order:	12.0