

Fuel Cell Technology - a driving force



www.h-tec.com

h-tec

We're full of energy

Since our founding in 1997, we have established ourselves worldwide as a leading provider of education and demonstration models for conveying an understanding of fuel cell technology. In developing our models, we not only create experiments that are curriculum-compatible and ensure fast experiment set-up, but also give particular emphasis to attractive, functional design.

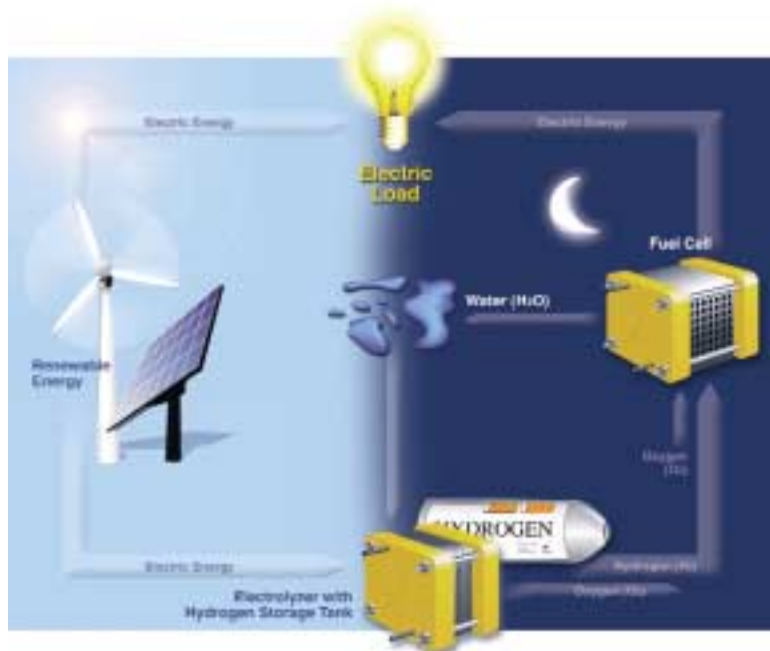
We firmly believe that learning has a lot to do with fun - and fun is essentially a given with our models. They give you a wide range of possibilities for letting people come into contact with and experience the fascinating concept of fuel cells.

In the area of industrial applications - another h-tec specialty - we have, since 1999, been developing low-

cost fuel cells and electrolysis systems, designed primarily for mass production. Our applications are an alternative for portable, mobile and stationary power supply.

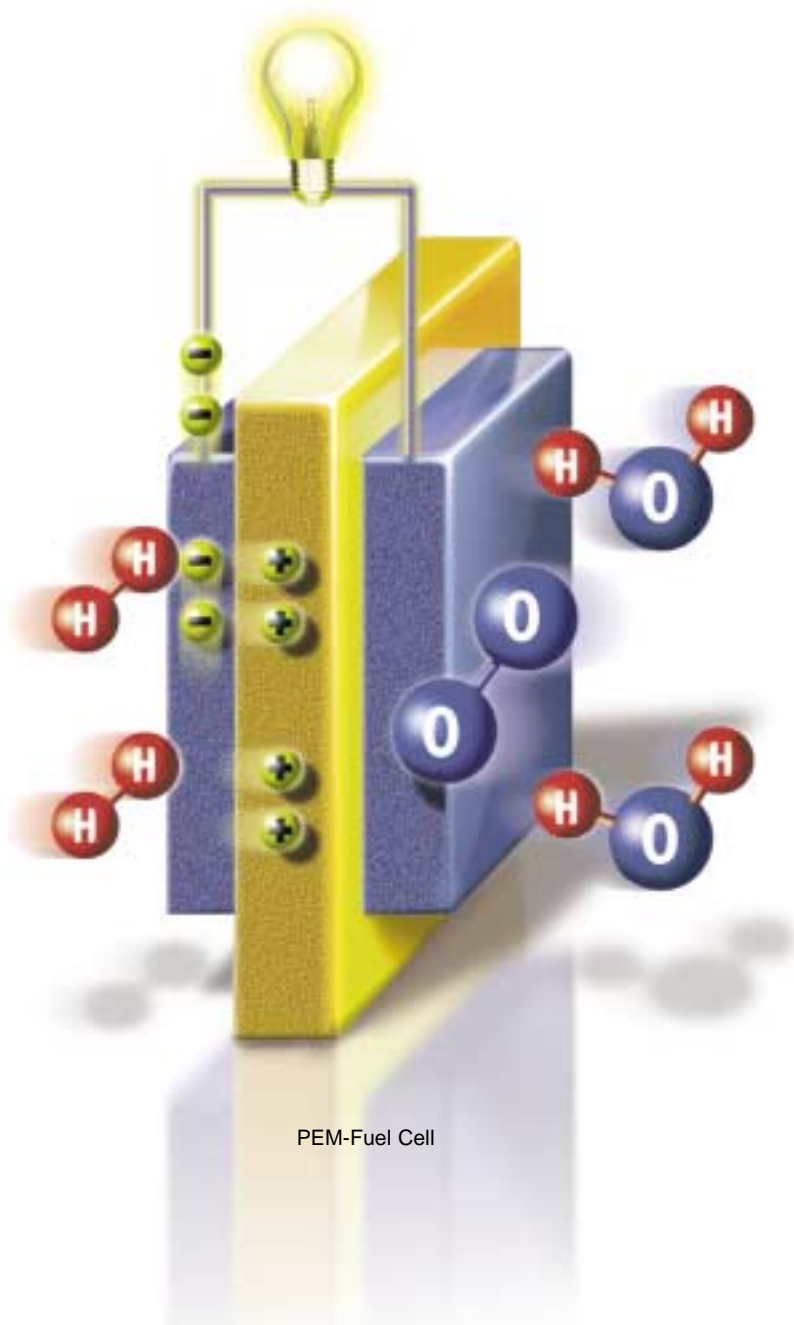
Renewable energy around the clock - solar hydrogen technology makes it possible. Using electrolysis, available solar or wind energy is used to produce hydrogen. This is temporarily stored and used for generating power via the fuel cell anytime it is needed. A clean solution indeed.

Energy of the Future



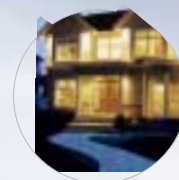
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PEM-Fuel Cell

How a PEM fuel cell works: A fuel cell reaction is the exact reverse of the electrolysis of water. While the electrolysis process can be used to store electrical energy as chemical energy - here as hydrogen and oxygen - a fuel cell converts chemical energy stored as hydrogen and oxygen (e.g. out of air) directly, i.e. without a combustion process, into electrical energy. Hydrogen and oxygen are fed in and react to water, giving off electricity and heat in the process.



ELECTROLYZER StaXX 2 & ELECTROLYZER StaXX 7

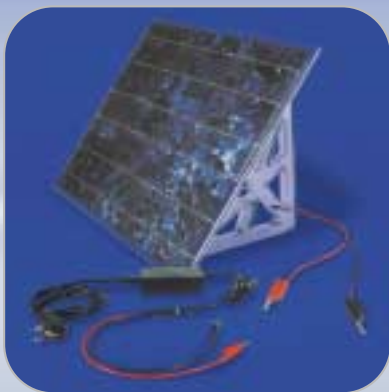
Hydrogen production
to your
heart's
content

High-performance PEM electrolyzers for a reliable and secure hydrogen supply for educational purposes. Power supplies, hydrogen storage and solar cells are available upon request.



Item 3011

Item 3017



Electrolyzer StaXX 2

Double-cell PEM electrolyzer stack for production of hydrogen from distilled water.

Specification

Power: 15 W
Hydrogen production: 65 cm³/min
H x W x D: 140 x 180 x 120 mm
Weight: 460 g

Item 3011

Electrolyzer StaXX 7

Seven-cell PEM electrolyzer stack for production of hydrogen from distilled water.

Specification

Power: 50 W
Hydrogen production: 230 cm³/min
H x W x D: 190 x 264 x 200 mm
Weight: 1.5 kg

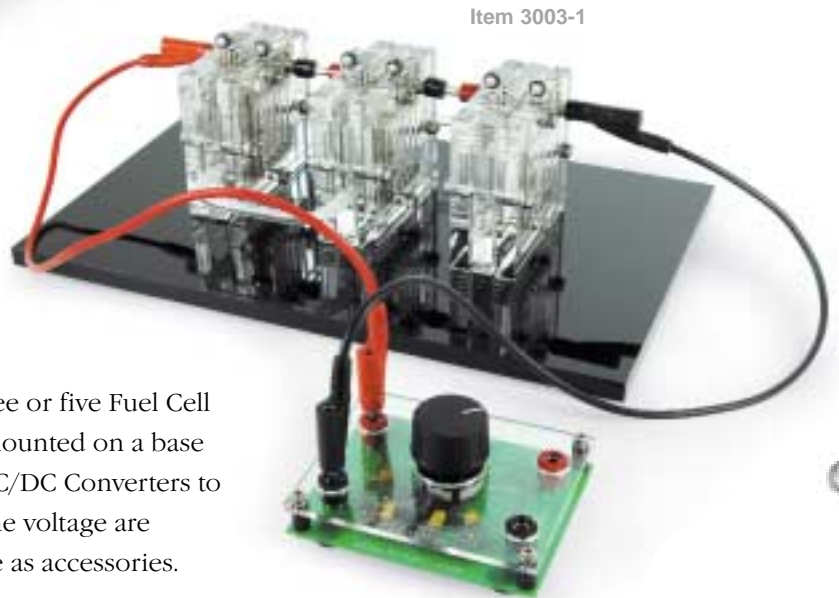
Item 3017

FUEL CELL StaXX & FUEL CELL StaXX 3



Item 3001

More cells -
more power -
more possibilities



Item 3003-1

The powerful extension of our Education range. The individual air-breathing double-fuel cells Fuel Cell StaXX can be put together to form systems. You will add more power and even more fun to your experiments! These double-fuel cells are available individually or as

two, three or five Fuel Cell StaXX mounted on a base plate. DC/DC Converters to adjust the voltage are available as accessories.

Fuel Cell StaXX

Double-cell PEM fuel cell stack for hydrogen/air operation.

Specification

Power: 1 W
H x W x D: 90 x 100 x 65 mm
Weight: 260 g

Item 3001

Fuel Cell StaXX 3 Pack1

Three double-cell PEM fuel cell stacks for hydrogen/air operation, mounted on a black base plate, DC/DC Converter StaXX 3 included.

Specification

Fuel Cell: 3 W
DC/DC Converter: 4.5; 6; 7.5; 9; 12; 14 VDC
H x W x D: 100 x 200 x 250 mm
Weight: 1.7 kg

Item 3003-1



StaXX Drive

Model of an electric motor drive for vehicles. Designed for 5 StaXX Fuel Cells.

Item 3055

PREMIUM EXHIBITION



Item 1908-1

We make hydrogen technology transparent

At trade fairs, exhibits or conventions, h-tec's Premium Exhibition lets you make state-of-the-art presentations featuring fuel cells and hydrogen technology. The demonstration model was designed specifically for extended, unsupervised operation. Its attractive appearance immediately mesmerizes visitors. A

solar module provides the electricity used for the model's PEM electrolyzer. Viewers can watch the reactions taking place in the transparent cells, observe the creation of the gases and experience how the energy is stored in tall columns of water surrounded by acrylic glass. The split hydrogen and oxygen is

initially stored, then used to power a fuel cell, which uses "cold combustion" to convert the two gases back into water, generating heat and electricity, which in turn powers an electric load. A fascinating show in and of itself.

Premium Exhibition Pack 1

Specification

Electrolyzer: 10 W
 Fuel cell: 1.2 W
 H x W x D: 650 x 800 x 300 mm
 Weight: 4.8 kg

Item 1908-1

Available without accessories (Fan, Cable, Solar Module Premium).

Item 1908



Videolight

Halogen lamp for Solar Module Premium.
 Power: 300 W, H x W x D: 700 x 370 x 370 mm,
 Weight: 1.2 kg

Item 1931



Premium Exhibition, quite possibly the most dramatic and impressive presentation of hydrogen technology around.

PREMIUM SOLAR HYDROGEN SET



A sturdy case for future energy

A mobile solar hydrogen kit for events in universities or in industrial settings. Our Premium Solar Hydrogen Set comes in a handy case, to let you demonstrate the basic principles behind PEM electrolyzers and PEM fuel cells “on the fly”. You can also do experiments to demonstrate the physical laws governing electrolysis and fuel

cells. All components required for presenting solar hydrogen technology are included in the set, from the light source and solar cell, electrolyzer, gas reservoir, and fuel cell down to the electrical load. There is a special emphasis on safe and fast presentation, as well as on the option of carrying out individual qualitative experiments. Whether

you’re doing a demonstration or an experiment, the Solar Hydrogen Set leaves all your options open.



08

Item 1909



Premium Solar Hydrogen Set

Specification

| | |
|----------------|-----------------------------------------------------------------------|
| Electrolyzer: | 4 W |
| Fuel cell: | 1.2 W |
| Gas storage: | 80 cm ³ H ₂ / 80 cm ³ O ₂ |
| Solar module: | 2.0 V / 1.0 A |
| Power supply: | 1.0 A |
| Electric load: | 10 mW |
| Lamp: | 300 W |
| H x W x D: | 425 x 530 x 210 mm |
| Weight: | 7.8 kg |

Item 1909



In case solar cells are not used, this power supply is included in the Solar Hydrogen Set.

*Mobile Fuel Cell
With the Solar Hydrogen Set,
you can easily demonstrate hydrogen
technology anywhere, anytime.*

PREMIUM XL



A notch above the rest

It's the size of this model hydrogen system that makes it impressive. With separate electrolyzers, gas reservoirs and fuel cells, Premium XL impressively demonstrates the basic principles of hydrogen technology. This education and demonstration kit has one special advantage, thanks to its vertical generous construction, your experiments can be seen clearly even in the "back rows". This makes the Premium XL the favorite of many universities when choosing an education and demonstration model.



Item 1800-1

09

Premium XL Pack1

Specification

Electrolyzer: 10 W
Fuel cell: 1.2 W
Gas storage: 80 cm³ H₂ / 80 cm³ O₂
H x W x D: 560 x 670 x 250 mm
Weight: 4.1 kg

Item 1800-1

Available without accessories (Fan, Cable, Solar Module Premium).

Item 1800



A vertical construction against a black backdrop effectively showcases your experiments.

PREMIUM DMFC



Electricity from methanol

In addition to hydrogen, methanol is becoming increasingly important as a source of energy. The Premium DMFC helps training facilities and companies show how to make electrical energy with a Direct Methanol Fuel Cell, in a real-life setting. A high-

ly interesting variation on hydrogen technology! In addition, the Premium DMFC offers you possibilities for experiments, e.g. measuring the current-voltage characteristic and the DMFC performance chart.



10



Premium DMFC Pack1

Specification

Power: 50 mW
H x W x D: 115 x 200 x 200 mm
Weight: 720 g

Item 1926-1

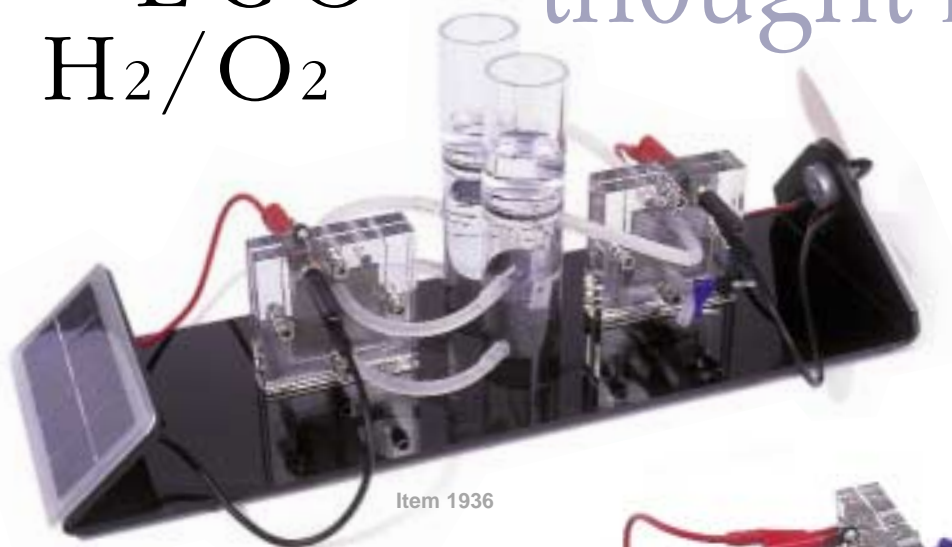
Available without accessories
(Fan, Cable).

Item 1926

*The Premium DMFC sets
the standard in experimental methanol
fuel cell presentation.*

New fuel for thought in your classroom

ECO H₂/O₂



ECO H₂/AIR



h-tec's two ECO models Eco H₂/O₂ and Eco H₂/Air give students insights into solar hydrogen technology. Numerous experiments can be carried out to teach lessons realistically. Solar cell, PEM electrolyzer, gas reservoirs, PEM fuel cell for

hydrogen-oxygen operation, and electric load are all ready for use on the Eco H₂/O₂ base plate. For those who wish to use the surrounding air rather than pure oxygen, h-tec offers the Eco H₂/Air model. It contains a reservoir to hold hydrogen,

and is otherwise identical to the Eco H₂/O₂. Both Eco systems offer students a variety of learning options. The current-voltage characteristic and efficiencies can be determined through experimentation.



Eco H₂/O₂

Specification

| | |
|----------------|-----------------------------------------------------------------------|
| Electrolyzer: | 2 W |
| Fuel cell: | 600 mW |
| Gas storage: | 40 cm ³ H ₂ / 40 cm ³ O ₂ |
| Solar module: | 2.0 V / 350 mA |
| Electric load: | 10 mW |
| H x W x D: | 175 x 470 x 150 mm |
| Weight: | 1100 g |

Item 1936

Eco H₂/Air

Specification

| | |
|----------------|-----------------------------------|
| Electrolyzer: | 2 W |
| Fuel cell: | 300 mW |
| Gas storage: | 40 cm ³ H ₂ |
| Solar module: | 2.0 V / 350 mA |
| Electric load: | 10 mW |
| H x W x D: | 140 x 470 x 150 mm |
| Weight: | 1000 g |

Item 1935

Thanks to a wide range of possible experiments, the Eco series turns learning into an experience.

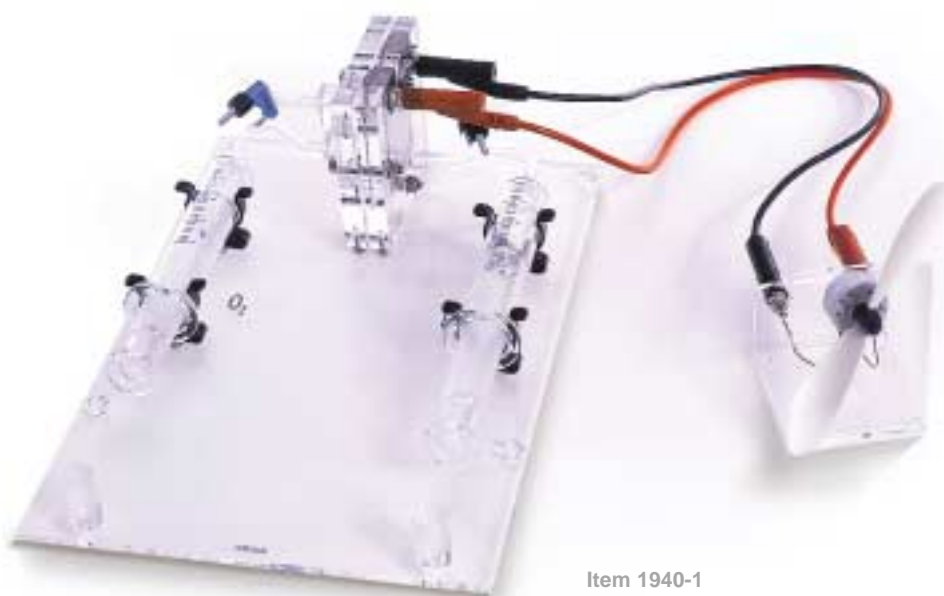
ECO MULTI

An all-rounder with a view



For successful learning, the vividness of your experiments plays an important role. h-tec developed the ECO Multi to make fuel cell technology even more transparent for students. Simply place it on the over-

head projector and your students can observe hydrogen technology in action. The system's completely transparent construction makes it possible! But the ECO Multi is also a worthwhile investment because of its multi-functional cell, choose between using it as an electrolyzer, fuel cell, hydrogen-oxygen pump or methanol fuel cell.



Item 1940-1

12



Eco Multi Pack1

Specification

Power: 2 W (electrolyzer mode); 600 mW (fuel cell/oxygen-mode H₂/O₂); 270 mW (fuel cell/air mode H₂/air)
 Gas storage: 20 cm³ H₂ / 20 cm³ O₂
 Pumping rates: 35.0 cm³/min H₂ and 4.0 cm³/min O₂
 Power as DMFC: 20 mW
 Hydrogen production from methanol: 3.0 cm³/min H₂ and 1.0 cm³/min CO₂
 H x W x D: 90 x 290 x 200 mm
 Weight: 680 g
 Fan, Cable, Solar Modul Eco included.

Item 1940-1

Available without accessories (Fan, Cable, Solar Module Eco).

Item 1940



Solar Module Eco

As electrical supply for Eco electrolyzers.

Power: 2.0 V / 350 mA, H x W x D: 80 x 150 x 70 mm,

Weight: 135 g

Item 1912

Conveys fuel cell technology compellingly, the ECO MULTI.

DESKTOP MODELS



Presentation models that actually do something



DT Rotating

Specification
Power: 10 mW
H x W x D: 100 x 100 x 100 mm
Weight: 190 g

Item 2016

DT Fan

Specification
Power: 10 mW
H x W x D: 93 x 100 x 40 mm
Weight: 110 g

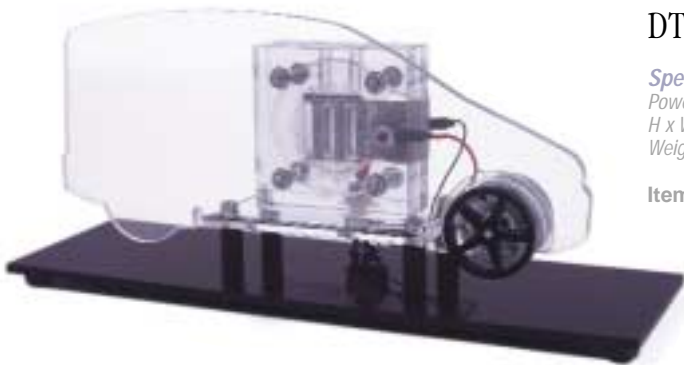
Item 2018



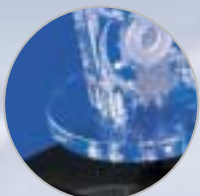
DT Car

Specification
Power: 10 mW
H x W x D: 90 x 200 x 64 mm
Weight: 190 g

Item 2017



High-quality presentation models equipped with advanced propulsion technology: the intricately designed DT Rotation, DT Car and DT Fan models are not only an attractive eye-catcher for your desk. Thanks to the integrated methanol fuel cell, they are also fully functional! Methanol is used in the PEM fuel cell for generating electricity, which operates a small electrical motor. Its elegant design makes the DT a striking present - not just for scientists!



*Good-looking and functional
at the same time:
h-tec desktop models.*

JUNIOR BASIC



JuniorBasic

Specification

| | |
|----------------|-----------------------------------------------------------------------|
| Electrolyzer: | 1.0 W |
| Fuel cell: | 500 mW |
| Gas storage: | 20 cm ³ H ₂ / 20 cm ³ O ₂ |
| Solar module: | 2.0 V / 350 mA |
| Electric load: | 10 mW |
| H x W x D: | 200 x 300 x 150 mm |
| Weight: | 600 g |

Item 2010

Item 2010

Discovering the fascination of fuel cells, first-hand

Introduce young people to future technologies through experimentation! The Junior series offers a spectrum of possibilities that is both low-cost and diverse. High functionality, simple experiment set-ups and speedy results ensure rapid learning success. Thus, in the JuniorBasic basic experiment system, all the compo-

nents required in hydrogen technology - such as solar cells, electrolyzer, hydrogen/oxygen reservoirs, fuel cell and electric load - come fully assembled, ready to use in experiments. The JuniorSet experimentation kit allows students to carry out a number of dramatic experiments on their own. Included in both systems

is a comprehensive curriculum for your lessons. In addition to technical background information and instructions for experiments, it also gives you methodological ideas, worksheets and overhead transparencies to use with and for your students.

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JuniorSet

Specification

| | |
|----------------|-----------------------------------------------------------------------|
| Electrolyzer: | 1.0 W |
| Fuel cell: | 500 mW |
| Gas storage: | 20 cm ³ H ₂ / 20 cm ³ O ₂ |
| Solar module: | 2.0 V / 350 mA |
| Electric load: | 10 mW |
| Cable: | 50 cm |
| H x W x D: | 140 x 450 x 380 mm |
| Weight: | 2.8 kg |

Item 2011



Solar hydrogen technology
in a convenient, sturdy
carrying case.

Item 2011

h-tec introduces your students
to all the basics of hydrogen technology -
step by step.

HyRUNNER & HySPEEDSTER

h-tec has already started the serial production of hydrogen fuel cell cars! At presentations and in schools, its two fuel cell model cars HyRunner and HySpeedster impressively get the futuristic propulsion concept across. Equipped with a reversible fuel cell, the two vehicle models can produce their own fuel - hydrogen - when electricity is supplied. This lets you give a dramatic presentation of the practical uses of hydrogen technology as well as carry out numerous experiments. The HySpeedster is extra fast thanks to a double fuel cell.

Experience the future of automobiles



Item 2050

Item 2051



HyRunner

Specification

Power: 1.0 W (electrolyzer mode);
500 mW (fuel cell mode)
Gas storage: 15 cm³ H₂ / 15 cm³ O₂
Number of cells: one cell
Charging time: approx. 2 min
Running time: approx. 8 min
H x W x D: 75 x 90 x 200 mm
Weight: 260 g

Item 2050

HySpeedster

Specification

Power: 2.0 W (electrolyzer mode);
1.0 W (fuel cell mode)
Gas storage: 15 cm³ H₂ / 15 cm³ O₂
Number of cells: Stack with 2 cells
Charging time: approx. 1 min
Running time: approx. 4 min
H x W x D: 75 x 90 x 200 mm
Weight: 300 g

Item 2051

Solar Module HySpeedster/
Solar Module Junior/
PowerSupply Junior

As electrical supply for HyRunner & HySpeedster

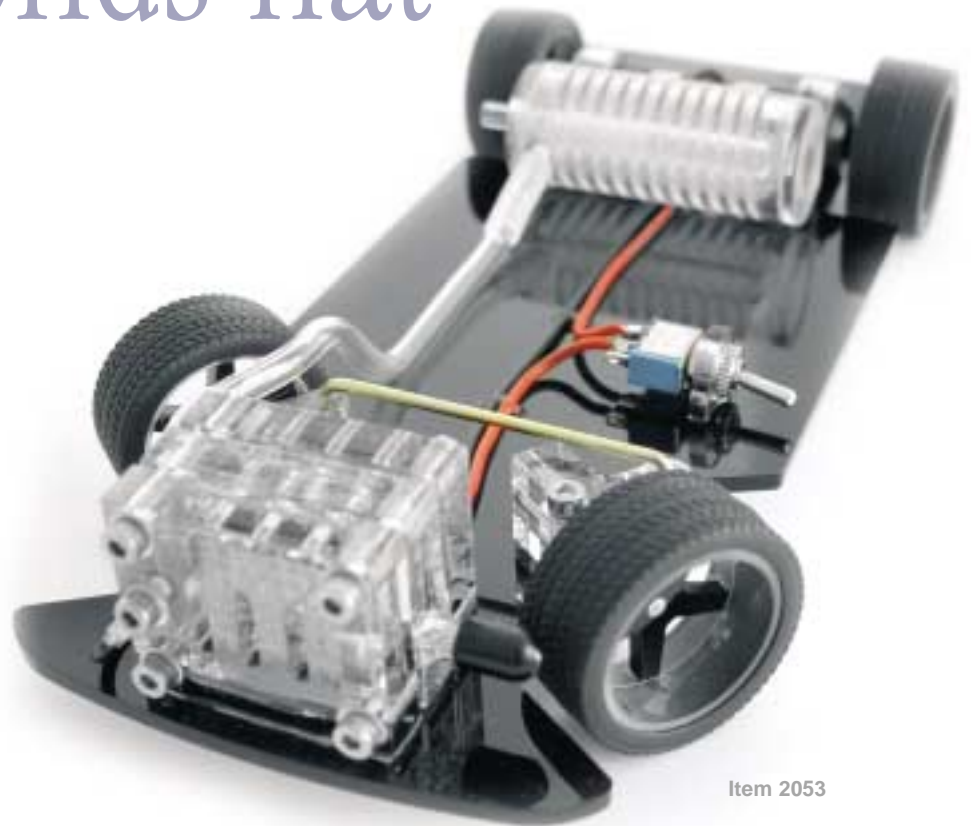
Item 2055/2021/2033

FUEL CELL CONCEPT CAR



From 0 to future in 30 seconds flat

h-tec's steerable Fuel Cell Concept Car demonstrates the effective use of hydrogen in the automotive sector. Combined with the Hydrogen Gas Station, the Fuel Cell Concept Car provides a perfect platform for presentations and driving demos. Because the two-cell fuel cell stack (no reversible cells) uses oxygen from the surrounding air, this model comes very close to real-life automotive applications. The Fuel Cell Concept Car is a frontrunner for promotional purposes as well - with your design study or serially produced body as its chassis.



Item 2053

16



Fuel Cell Concept Car

Specification

Fuel Cell: 300 mW
Number of cells: Stack with 2 cells
Charging time: approx. 30 sec
Running time: approx. 7 min
H x W x D: 45 x 240 x 100 mm
Weight: 260 g

Item 2053

Hydrogen Gas Station 2

The Fuel Cell Concept Car is refueled at the Hydrogen Gas Station 2.

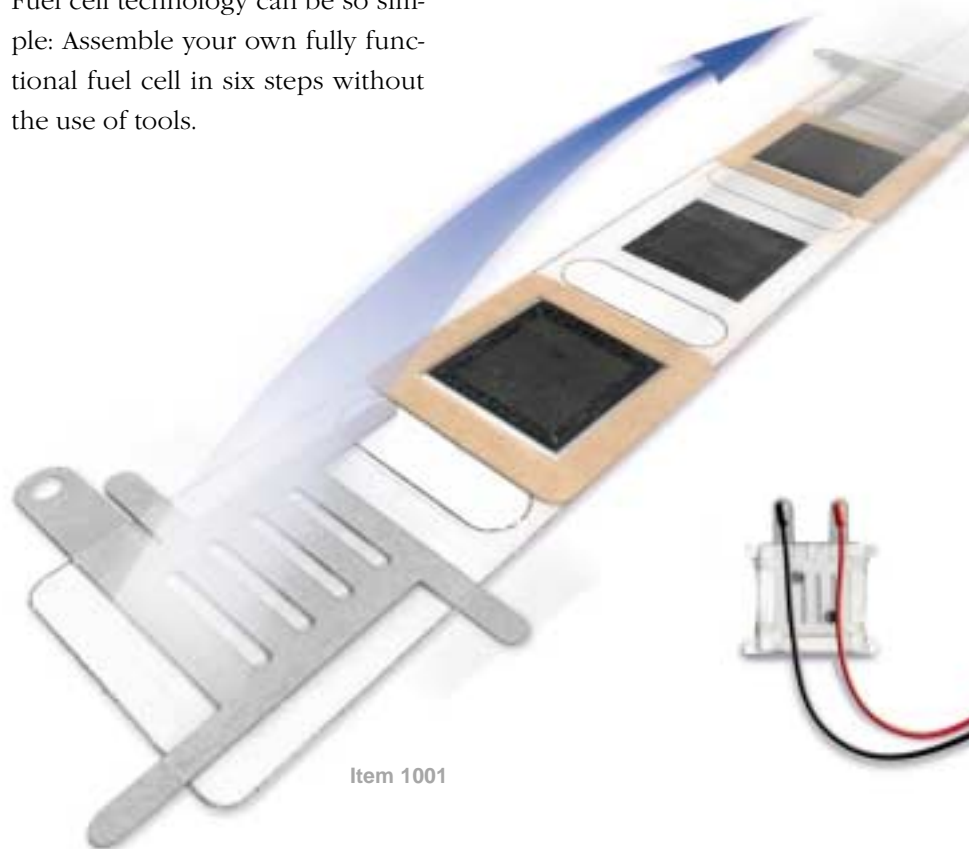
H x W x D: 230 x 360 x 150 mm, Weight: 1,2 kg

Item 2057

FUEL CELL MINI

Build your own Fuel Cell now

Fuel cell technology can be so simple: Assemble your own fully functional fuel cell in six steps without the use of tools.



Item 1001

Fuel Cell Mini

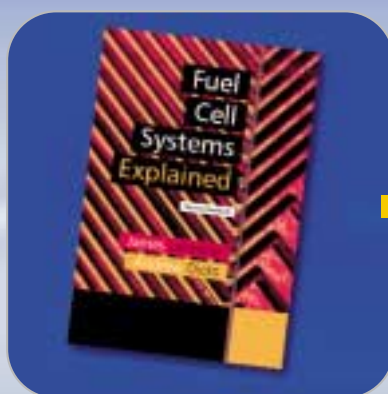
Specification

Power: 20 mW
H x W x D: 30 x 20 x 2 mm
Weight: 9 g

Item 1001



17



Fuel Cell Systems Explained & Fuel Cell Mini

Fuel Cell Systems Explained
Hardcover - 384 pages
2nd Edition (February 2003)
Publisher: John Wiley & Sons
ISBN: 047084857X

1 Fuel Cell Mini incl.

Item 1600-1

Fuel Cell Systems Explained

By James Larminie and Andrew Dicks. Coverage of the complete fuel cell system incl. compressors, turbines, and the electrical and electronic sub-systems such as regulators, inverters, grid inertias, electric motors, and hybrid fuel cell/battery systems.

Item 1600

Fuel Cell Mini

Stamp-sized Fuel Cell Technology: Fuel Cell Mini, a fully functional fuel cell, which can be self-assembled by folding.

Item 1001

SUGGESTIONS FOR FURTHER READING

Fuel Cell Systems Explained

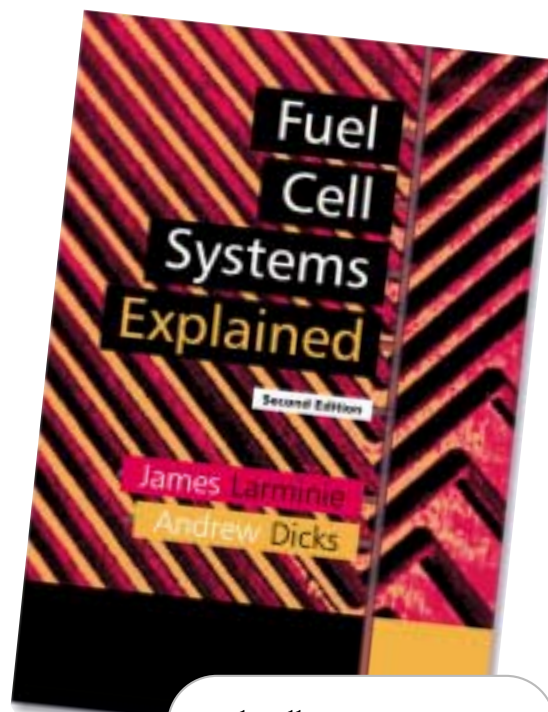
JAMES LARMINIE & ANDREW DICKS

„In summary, an altogether satisfying book that puts within its covers the academic tools necessary for explaining fuel cell systems on a multidisciplinary basis.”

Power Engineering Journal

„An excellent book...well written and produced.”

Journal of Power and Energy



Fully revised and updated, the second edition:

- Provides an essential guide to the principles, design and application of fuel cell systems.
- Includes full and updated coverage of fuel processing and hydrogen generation and storage systems.
- Presents a full and clear explanation of the operation of all the major fuel cell types, and an introduction to

possible future technology, such as biological fuel cells

- Features a new chapter on the direct methanol fuel cell.
- Now includes examples of the modelling, design and engineering of real fuel cell systems.
- A clear overview of fuel cell operation and thermodynamics.

Fuel Cell Systems Explained

James Larminie and Andrew Dicks

Hardcover - 384 pages
2nd Edition (February 2003)
Publisher: John Wiley & Sons
ISBN: 047084857X

Item 1600



Handbook of Fuel Cells - Fundamentals, Technology, Applications

Four Volume Set
Edited by Wolf Vielstich, Hubert
Gasteiger and Arnold Lamm

Hardcover - 2690 pages
First Edition (March 2003)
Publisher: John Wiley & Sons
ISBN: 0471499269

Item 1501

ACCESSORIES



PEMFC Kit

The original! PEM fuel cell that can be completely disassembled. The cell works in Hydrogen/Oxygen or in Hydrogen/Air mode.

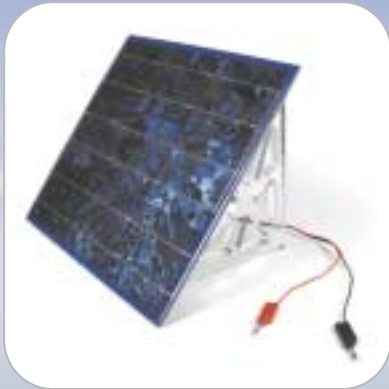
Specification

Power: 600 mW (Oxygen)
200 mW (Air)
H x W x D: 98 x 80 x 78 mm
Weight: 225 g

Item 1919



19



Solar Module StaXX 2

13 W solar module as power source for Electrolyzer StaXX 2, can be positioned at 45°, 60° or 75°. Power: 4.0 V / 3.3 A, H x W x D 5 x 330 x 330 mm, Weight: 1.5 kg

Item 3031



Solar Module StaXX 7

53 W solar module as power source for Electrolyzer StaXX 7, can be positioned at 45°, 60° or 75°. Power: 13.8 V / 3.8 A, H x W x D 35 x 995 x 450 mm, Weight: 8.3 kg

Item 3037



Solar Module Premium

With three individual modules in parallel, this solar module (2.0 V / 1.0 A) serves as the perfect source of electricity for h-tec electrolyzers.

H x W x D: 70 x 150 x 270 mm, Weight: 550 g

Item 1913



Solar Module Eco

This solar module delivers 2.0 V at 350 mA and may be used as a source of electricity for h-tec electrolyzers.

H x W x D: 80 x 150 x 70 mm, Weight: 135 g

Item 1912



Solar Module Junior

Made to measure for h-tec's Junior systems, this solar module supplies Junior electrolyzers with 2.0 V / 350 mA.

H x W x D: 65 x 150 x 60 mm, Weight: 125 g

Item 2021



Solar Module HySpeedster

Customized for the energy required by the HySpeedster fuel cell car, this double solar module delivers 4.0 V / 350 mA.

H x W x D: 115 x 155 x 100 mm, Weight: 230 g

Item 2055

ACCESSORIES

StaXX Drive

Model of an electric motor drive for vehicles. Two wheel hub motors as load, designed for 5 Fuel Cell StaXXs.

Specification

Power at 6 V: 2.7 W
H x W x D: 140 x 450 x 350 mm
Weight: 3.5 kg

Item 3055



Videolight

Creates "sunshine" for h-tec solar modules. The halogen lamp has a power of 300 W and can be perfectly positioned thanks to a stable tripod.

H x W x D: 700 x 370 x 370 mm, Weight: 1.2 kg

Item 1931



Spotlight

With its 75 W halogen bulb, the Spotlight is the perfect source of light for Junior, Eco and HySpeedster solar modules.

H x W x D: 490 x 170 x 200 mm, Weight: 1.4 kg

Item 2030



Premium Drive

Model of an electric motor drive for vehicles. Wheel hub motor as load for Premium and Eco fuel cells.

Power: 20 mW, H x W x D: 110 x 225 x 225 mm, Weight: 750 g

Item 1915



Fan

This fan may be used as an electric load for fuel cells. Its engine has a load capacity of 10 mW.

H x W x D: 130 x 60 x 95 mm, Weight: 65 g

Item 1914



Fan Junior

An electric load for Junior systems. The fan's 10 mW engine is easily driven by the Junior fuel cell.

H x W x D: 140 x 60 x 40 mm, Weight: 45 g

Item 2022



Decade Resistor/Decade Resistor Junior

Decade resistor for individual test series and experiments. Maximum load 1 W. The Decade Resistor was developed specifically to take the characteristics of individual components. H x W x D: 40 x 160 x 130 mm, Jack diameter 4 mm (2 mm for Junior)

Item 1949/2023

ACCESSORIES

Storage 1

Gas storage tank for 40 cm³ hydrogen or oxygen and can easily be adapted.

Specification

Volume: 40 cm³
H x W x D: 140 x 100 x 100 mm
Weight: 145 g

Item 1923

Storage 80

Gas storage tank for 80 cm³ hydrogen, can easily be connected by hoses.

Specification

Volume: 80 cm³
H x W x D: 265 x 100 x 100 mm
Weight: 190 g

Item 1922



PowerSupply StaXX 2/PowerSupply StaXX 7

Power supply for Electrolyzer StaXX 2. Input: 100-240 V, 50-60 Hz, Output: 5.0 VDC / 3.0 A, Weight: 190 g
Power Supply for Electrolyzer StaXX 7. Input: 100-240 V, 50-60 Hz, Output: 12.0 VDC / 5.0 A, Weight: 620 g

Item 3021/3027



PowerSupply/PowerSupply Junior

If you are not planning to use solar cells, this power supply provides all the energy that h-tec electrolyzers need. Plug diameter 4 mm, 2 mm for Junior.
Input voltage: 100 - 240 V; 50 - 60 Hz
Output voltage: 5.0 V DC 1.0 A

Item 1933/2033



DC/DC Converter StaXX 2

Voltage transformer; specially for Fuel Cell StaXX 2, can be switched to DC output voltages 4.5; 6; 7.5; 9; 12; 14 V.
H x W x D: 45 x 100 x 80 mm, Weight: 100 g

Item 3042



DC/DC Converter StaXX 3

Voltage transformer; specially for Fuel Cell StaXX 3, can be switched to DC output voltages 4.5; 6; 7.5; 9; 12; 14 V.
H x W x D: 45 x 100 x 80 mm, Weight: 100 g

Item 3043



Connection StaXX

For electrical connection and gas supply of two Fuel Cell StaXX among each other. Weight: 7 g

Item 3020



MediaPack

The MediaPack offers you extensive illustrative material for your classroom or your presentation, overhead transparencies on fuel cell technology and hydrogen technology as well as two posters that illustrate the principle of PEM fuel cells and solar hydrogen systems.

Item 2065



h-tec

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