

## TECHNICAL NOTES

The articles mentioned in this catalogue have the following characteristics:

- they are all marked with a code;
- they are illustrated by pictures and accompanied by useful information to describe their function;
- they are provided with a guide in which the operation mode is described in details in order to facilitate their use;
- they are constructed with very resilient materials;
- they are compatible with each other;
- the articles dedicated to the measurement of physical quantities are calibrated in SI units, except for some types of dynamometers, which are calibrated in grams-weight.

The products described in this catalogue are designed and constructed in accordance with the Council Directive dated 3rd May 1989 concerning the approximation of Member States legislation to the Electromagnetic Compatibility Directive (EEC 89/336) published by the Official Journal of the European Community No L 139/19 dated 23rd May 1989 and transposed into Italian law by Legislative Decree dated 4th December 1992, n. 476 entitled:

**IMPLEMENTATION OF EEC DIRECTIVE 89/336, DATED 3RD MAY 1989 CONCERNING THE APPROXIMATION OF MEMBER STATES LEGISLATION AS REGARDS ELECTROMAGNETIC COMPATIBILITY (EEC 89/336) PUBLISHED BY THE OFFICIAL JOURNAL OF THE EUROPEAN COMMUNITY NO L 139/19 DATED 23RD MAY 1989, CHANGED BY DIRECTIVE 92/31 EEC DATED 28TH APRIL 1992.**

The rules about the guarantee of electrical equipment safety (Directive 72/23/CEE implemented by Law 791 dated 18th October 1977) have also been observed.

## CONSULTATION GUIDE

Among the goals that science teaching aims to achieve, the most important are the development among young people of cognitive skills, of scientific attitude and ability to combine doing and thinking through practical and perceptive exercises.

Such a result is achieved only through constant laboratory practice, thanks to demonstrations done by the teacher and students practical activities.

The instruments presented in this catalogue have the following characteristics:

- They are designed with particular attention to user safety;
- They are shown in different sections in order to meet the requirements of both primary and secondary teaching levels;
- Firstly this catalogue presents the most suitable items for school, as they allow the execution of experiments to verify the existence of natural phenomena and evaluate them in qualitative terms;
- Secondly the catalogue presents the equipment which permits a quantitative study of the phenomena;
- These instruments permit great freedom to teachers in choosing experimental activities according to their didactic program.
















## GENERAL SALES CONDITIONS

Materials must be checked and tested within 7 (seven) days from the date of receipt.

If there are no complaints, the material will be considered as accepted unconditionally by the customer.

If any defects or damaged material should be found, a complaint has to be made immediately to the supplier in order to replace defective or damaged material.

MAD LOOKS FORWARD TO HELPING TEACHERS RESOLVE ANY PROBLEM CONCERNING  
SCIENTIFIC LABORATORY EQUIPMENT.  
PLEASE CONTACT YOUR LOCAL DISTRIBUTOR OR CALL OUR HEAD OFFICE TO TALK TO  
OUR TECHNICAL DEPT.

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# NEWS 2011-2012

## P116



**P116 "Renewable energies" kit**  
A topical matter to be discussed with the students.  
Full description on page 14

## HZ01-HZ14



**HZ01-HZ14 Kits on renewable energies**  
14 different newest models for the most demanding.  
Full description on page 90

## 9100



**9100 Edu-Board**  
Turn any surface into a touch-screen!  
Full description on page 205

## 9101



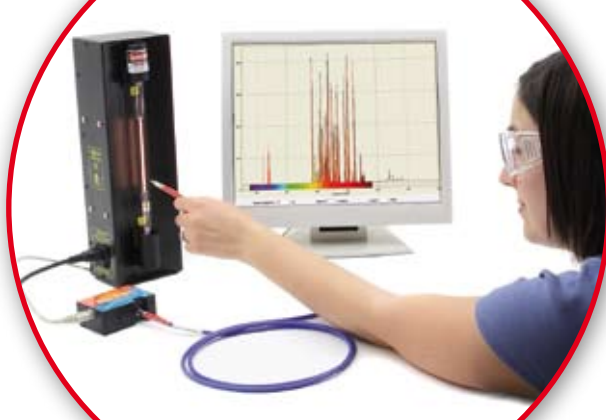
**9101 Edu-Board Mini**  
A new way of teaching!  
Full description on page 204

## 4153



**4153 AMADEUS Spectrophotometer**  
Spectroscopy with the new technologies: easier and more effective.  
Full description on page 61 - 158

## 4152



**4152 RED TIDE Spectrophotometer**  
Professional spectrophotometer for the most demanding  
Full description on page 61 - 158

# NEWS 2011-2012

1402



**1402 Vacuum bell fitted with plate**  
Cheap model.  
Full description on page 42

15629



**15629 Slides: The cell and the animal tissues**  
Series of 25 slides.  
Full description on page 111

1424



**1424 Kit of spring scales**  
It includes 6 spring scales with different capacities.  
Full description on page 212

5394



**5394 Power House**  
Power house green essentials  
Full description on page 88

HS2055



**HS2055 Animal cell**  
Enlarged model.  
Full description on page 120

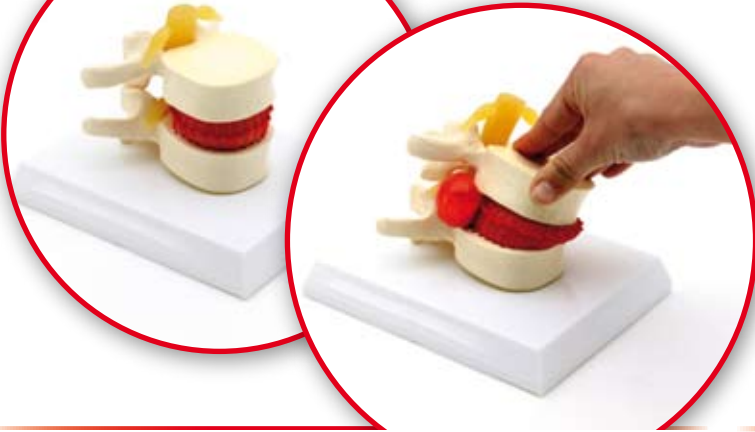
HS2056



**HS2056 Plant Cell**  
Enlarged model.  
Full description on page 120

# NEWS 2011-2012

**GD1501**



**GD1501 Simulator of vertebral disk disease**  
Herniated disc.  
Full description on page 127

**1426**



**1426 Torricelli's device**  
The pressure easily explained.  
Full description on page 41

**2112**



**2112 Apparatus for the study of Brownian motion**  
Fitted with laser projector. It works without cigarette smoke  
Full description on page 47

**2142**



**2142 Digital anemometer**  
To measure the wind speed.  
Full description on page 138

**7252**



**7252 Carbon Monoxide Meter**  
For measurements on air quality  
Full description on page 134

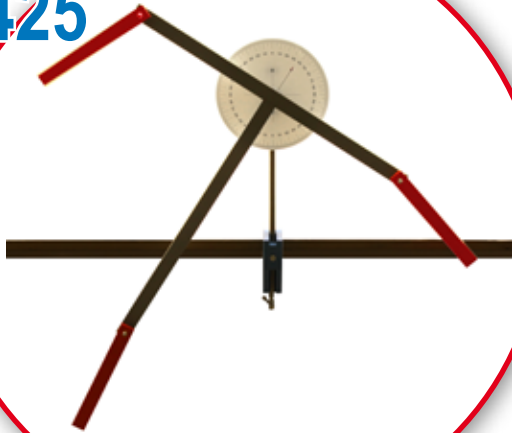
**7253**



**7253 Oximeter - Dissolved Oxygen Meter**  
For measurements on water quality.  
Full description on page 135

# NEWS 2011-2012

1425



**1425 Todd Pendulum**  
The chaotic motions at hand  
Full description on page 34

GD0203



**GD0203 Sexless human torso - high quality model**  
Decomposable model into 17 parts. High quality of the details.  
Full description on page 125

4155



**4155 LED projector**  
For optical experiments with X-LED™ technology.  
Full description on page 55

7250



**7250 Kit of measuring tools**  
Let's get ready to measure!  
Full description on page 208

4988



**4988 Two-way viewer**  
Big size, with handles.  
Full description on page 109

5423



**5423 Wind powered device**  
The easiest way to understand how the wind can generate electrical power.  
Full description on page 91

# NEWS 2011-2012

7251



**7251 Mathematics with the spring scale**  
Fitted with geometric shapes and a pair of spring scales  
Full description on page 200

5720



**5720 DC digital voltmeter**  
Capacity: 20Vdc.  
Full description on page 215

5721



**5721 Digital coulombmeter**  
Capacity: 2000nC  
Full description on page 215

5722



**5722 DC digital ammeter**  
Capacity: 10Adc  
Full description on page 215

5228



**5228 Low-voltage AC / DC power supply**  
0-14V ac and dc.  
Full description on page 228

5229



**5229 Low-voltage AC / DC power supply with protection**  
0-14V ac and dc, with voltage locking system. Suitable for students.  
Full description on page 228

# NEWS 2011-2012

5230



**5230** 8A low-voltage power supply  
0-12V cc.  
Full description on page 228

5324



**5324** 5KV DC generator  
With additional 6,3Vac output  
Full description on pages 68 - 228

5718



**5718** Low-frequency signal generator  
From 0,1Hz to 100KHz, built-in 4W amplifier.  
Full description on page 228

5292



**5292** Medium-voltage DC power supply  
From 0 to 300Vcc.  
Full description on page 228

3016



**3016** Acoustic-frequency signal generator  
From 20Hz to 20KHz  
Full description on page 46

4154



**4154** Synchronized strobe  
New synchronized model with external signal generators  
Full description on page 211