

Elcometer 120 Solar Box



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At a glance

- Four variants available - standard and enhanced models.
- Choice of 4 UV filters.
- Simulate various test conditions.

Elcometer 120 Solar Box

This compact unit is equipped with an air-cooled Xenon light source, for evaluating the ageing effects of solar light on numerous materials.

It has adjustable irradiation from 250 to 800W/m² and a choice of 4 UV filters to allow different test conditions to be simulated:

- 280 nm: Standard model, exposure at high altitudes
- 300 nm: Normal direct insulation
- 310 nm: Glass filtered
- Infra Red: for reducing sample temperature

Corrosion

One of the many tests described in International Standards for evaluating the corrosion performance of a material is the long-established salt spray test.

Developed several decades ago with the aim of simulating a corrosive marine environment, the procedure has, over the years, become a key tool for predicting the performance of a coating and is now one of the standard references used by industry today.

Modern quality demands and new research have shown that the results of these tests can be optimised when the salt spray is combined with other methods, which may be of a cyclical nature or more aggressive.

Can be used in accordance with:	
ASTM D 5071	BS 1006
ISO 11341	ISO 4892

Four models of the Elcometer 120 are available			
Elcometer 120/1	Elcometer 120/2	Elcometer 120/3	Elcometer 120/4
Countdown timer and hour counter	<i>All of the features of the Elcometer 120/1 plus:</i>	Countdown timer and hour counter	<i>All of the features of the Elcometer 120/3 plus:</i>
1500 W air-cooled lamp	Microprocessor for programming cycles and end point.	2500 W air-cooled lamp	Microprocessor for programming cycles and end point.
Controlled power system for constant irradiance	4 lines, 20 character LCD display	Controlled power system for constant irradiance	4 lines, 20 character LCD display
Infinitely variable irradiance via control knob up to 1000 W/m ²	Control and display of irradiance	Infinitely variable irradiance via control knob up to 1000 W/m ²	Control and display of irradiance
280 nm filter for maximum UV effect	Control and display of BLACK Standard Temperature	280 nm filter for maximum UV effect	Control and display of BLACK Standard Temperature
Removable sample tray, with exposure area 200 x 280 mm (7.9 x 11")	Up to 15 memorised test programs, free programming	Removable sample tray, with exposure area 200 x 420 mm (7.9 x 16.5")	Up to 15 memorised test programs, free programming
Dimensions: 730 x 370 x 350mm (28.7 x 14.5 x 13.8")	Complete test report via RS 232 serial interface	Dimensions : 870 x 370 x 350mm (34.2 x 14.5 x 13.8")	Complete test report via RS 232 serial interface
Electrical connection to 200-240 Vac, 50/60 Hz, 1n/PE		Electrical connection to 200-240 Vac, 50/60 Hz, 1n/PE	

Model	Description	Part Number		
		UK 240V	EUR 220V	US 110V
Elcometer 120/1	Elcometer 120 Solar Box 1500 Standard Model	K0UK0120M004	K0000120M004	K0US0120M004
Elcometer 120/2	Elcometer 120 Solar Box 1500 Enhanced Model	K0UK0120M003	K0000120M003	K0US0120M003
Elcometer 120/3	Elcometer 120 Solar Box 3000 Standard Model	K0UK0120M005	K0000120M005	K0US0120M005
Elcometer 120/4	Elcometer 120 Solar Box 3000 Enhanced Model	K0UK0120M006	K0000120M006	K0US0120M006
Options – <i>please specify when ordering</i>	Description	Part Number		
	Irrigation System for testing the weather resistance of materials for cyclic sample immersion during test - Elcometer 120/2	KT000120N005		
	Irrigation System for testing the weather resistance of materials for cyclic sample immersion during test - Elcometer 120/4	KT000120N006		
Accessories	280nm UV Filter for Elcometer 120/1 and 120/2	KT000120P001		
	310nm UV Filter for Elcometer 120/1 and 120/2	KT000120N002		
	IR Infrared Filter for Elcometer 120/1 and 120/2	KT000120N003		
	Xenon Light 1500 w for Elcometer 120/1 and 120/2	KT000120P002		
	280nm UV Filter for Elcometer 120/3 and 120/4	KT000120P005		
	310nm UV Filter for Elcometer 120/3 and 120/4	KT000120N008		
	IR Infrared Filter for Elcometer 120/3 and 120/4	KT000120N009		
	Xenon Light 2500 W Elcometer 120/3 and 120/4	KT000120P004		
	Air Filter Set (Pack of 3)	KT000120P003		
	Magnetic Agitator	KT000120N004		
	Multimeter with interchangeable sensors, portable, radiometer and thermometer with carrying case – supplied without sensors	K0000122M001		
	Multimeter sensor – 340nm; narrow band	KT000122N001		
	Multimeter sensor – 420nm; narrow band	KT000122N003		
	Multimeter sensor – 295 - 400nm; wide band total UV sensor	KT000122N004		
	Black panel temperature sensor	KT000122N006		

Related products



Elcometer 6075/1

The SP60 is an affordable sphere colour spectrophotometer, designed to give fast, precise and accurate colour measurement information on materials ranging from paper and paint to plastics and textiles. Supplied with an 8mm fixed aperture.



Elcometer 6075/2

The SP62 is an affordable sphere colour spectrophotometer, designed to give fast, precise and accurate colour measurement information on materials ranging from paper and paint to plastics and textiles and is supplied with 4mm, 8mm or 16mm fixed apertures.



Elcometer 6075/3

The most popular product suitable for most coating applications, the SP64 colour spectrophotometer is fast, accurate and ideal for measuring a wide range of materials. Supplied with a switchable aperture size, the user can select the test area of 4mm or 8mm or it can be supplied with an optional fixed 16mm aperture.



Elcometer 6060

The Elcometer 6060 is a versatile 0/45 spectrophotometer, with interchangeable apertures for 4mm, 7mm or 15mm measurement areas. A wrist strap and tactile side grips make the instrument easy to hold. Read-outs are large and easy to see. A rechargeable battery pack allows extended operation of the instrument.



Elcometer 6060/4

The Elcometer 6060/4 has all of the functionality of the Elcometer 6060 but with tighter inter-instrument agreement and JOB capability. The JOB function is a programmed sequence of specific steps to assist the operator in the colour measurement process. Up to six lines of specific instructions per measurement routine can be downloaded from X-Rite software and displayed on the LCD screen.

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