Specifications

	Information
Temperature range /°C	-35 to +150
Temperature accuracy /°C	± 0.3
Input voltage	115 V / 230 V, 50/60 Hz
Computer Interface	USB or Ethernet
Power consumption /W	250
Dimension /mm	400 x 313 x 385 (HxWxD)
Weight /kg	8
Catalog n°	
ITS-e	**097-140e**

CESH-e

A leak-tight sample holder for controlled atmosphere study

The Controlled Environment Sample Holder is a leak-tight (up to 2 bar relative) sample holder for the electrical characterization of hard, powdered, pasty and soft materials. Oxygen and moisture sensitive samples can be prepared in a glove box and then placed inside the CESH-e.
The CESH-e can be used as standalone, or inside an ITS-e or a climate chamber.

Constant contact pressure and thickness measurement

A thickness measurement kit including a micrometer head with a calibrated ratchet is provided as an option to ensure the accurate measurement of the thickness of the sample (ASTM D374). This also enables reproducible pressure (100 N or 6 N respectively) to study flexible and compressible materials.

	Information
Operating temperature /°C	–40 to 150
Max sample diameter /mm	30
Max sample thickness /mm	4
Core material	Anodized aluminum
Electrode material	Gold plated copper
Dimension /mm D 79 x H 94 mm	79x94 (Diameter x Height) 121.90 clearance
Residual capacitance with 20 mm diameter /pF	8
Weight /kg	0.9
To be used	Standalone or with ITS-e or climate chamber
Catalog n°	
CESH-e	**097-150e**
Thickness measurement kit	**097-150e/10**
Cable kit for CESH-e and MTZ-35	**097-150e/01**
Cable kit for CESH-e and Potentiostat	**097-150e/02**

Electrodes

Thanks to its modular electrodes setup, the CESH-e allows Through-plane and In-plane electrical measurements using interchangeable electrodes.

(Left) In-plane / (Right) Trough-plane

In-plane	Trough plane
	
097-150/IPSD (standard) (10 mm) **097-150/IP250** (250 µm) **097-150/IP100** (100 µm)	**097-150/TP20** (20 mm diameter) **097-150/TP12** (1/2" diameter) **097-150/TP06** (1/4" diameter)