



THERMAL CELL

THE³MO

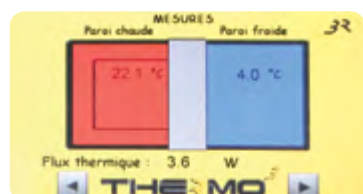


NEW

Device for measuring thermal transfers full scale, through a vertical plane wall

The operating principle : The hot and cold enclosures are placed on either side of the wall to...

Each enclosure is set with a controlled temperature (cold side: between +5°C and -10°C) and hot side (between +10°C and +30°C).



The display returns the following data :

- ▶ temperature gradient between the tested wall faces
- ▶ energy loss through the wall
- ▶ energy loss caused by thermal bridges
- ▶ heat flux through the wall
- ▶ strength and thermal conductivity of the wall

Supplied with :

- one set of walls comprising of :
 - ▶ wooden insulated panel
 - ▶ insulated dry wall
 - ▶ insulated double skin cladding
- a set of 8 digital temperature probes
- an acquisition unit for measuring temperatures and energy consumed
- a tactile display for configuration and visualisation of measurement results



Recherches & Réalisations Rémy sas

1 Rue Joseph Marie Jacquard
ZI Nord - BP 80631
82006 Montauban Cedex - France

TÉL + 33 (0)5 63 66 52 80
FAX +33 (0)5 63 66 52 71

Contact.commercial@3r-rpp.com



WWW.3R-LABO.COM



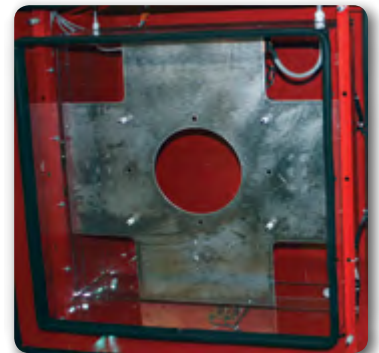
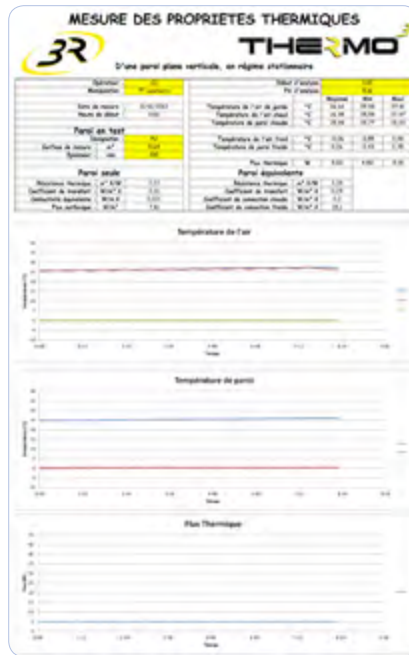
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THERMO³



Hot Zone :

- Insulated and ventilated.
- Heating resistances 200W.
- 8 numerical temperature probes.
- Current and voltage are measured by the central processing unit and are used to calculate the active power of each zone.



Cold Zone :

- Equipped with a refrigerating unit, an exchanger (cooling) connected to the cold zone and an exchanger (heat) connected to the outside.
- Zone is insulated and ventilated.
- 4 digital temperature probes.



Control Unit : connected to a PC

- Allows the entry of configuration parameters and setpoints.
- Ensures in real-time the reading of the sensors, regulates and controls the actuators.



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