# TDW 4140 and TDW 4240

## Test Chamber for Determining the Stationary Heat Transfer Properties with a Controlled Hotbox in Accordance with DIN EN ISO 8990, DIN EN 1946-4, DIN EN ISO 12567, DIN EN 12412-2, and ASTM C1363; and Combined in Accordance with DIN EN 1934

The compact test chambers TDW 4140 and TDW 4240 were designed for testing elements and components used in construction, such as windows, profiles, doors and domes (and in the case of TDW 4240, also brick walls). They basically simulate the temperature and the natural convection inside and outside a building. Optionally, the humidity level in the two sections of the chamber can be set as needed. The HotBox software at the measurement and control unit is used to set all parameters as well as for complete data logging, detailed analysis and printing of test reports. There are also other devices, accessories and materials available that allow for sample preparation and conditioning to optimize the testing procedure.

## Features at a Glance

* Insulated warm and cold sections with heat exchangers and air deflectors, radial fans, roll chassis on guiding rails and 12-point locking system
* Hotbox with axial fan, air deflectors, roll chassis and hydraulic cylinders
* Insulated test frame with roll chassis and openings for sample insertion via forklift
* Recirculation cooler with water cooling for temperature control of warm and cold sections
* Control rack unit with measuring and control modules, PC, printer and 23" monitor
* Interfaces: 1 x RS232, 2 x USB, 1x Gigabit Ethernet
* 2 isothermal blocks with 60 measuring points each, 1 set of thermocouples, flow sensors, TDW 4240: 2 heat flow meters with guard plates
* Single license for HotBox software
* 4 (TDW 4240: 6) calibration panels with factory calibration certificate
* 1 set stainless steel guide rails for warm and cold sections