

Title (en)

CLIMATIC CHAMBER HAVING THERMAL REGULATION FOR MOTION SIMULATOR, AND METHOD FOR THERMAL REGULATION, AND INSTALLATION KIT

Title (de)

KLIMAKAMMER MIT WÄRMEREGELUNG FÜR BEWEGUNGSSIMULATOR UND VERFAHREN ZUR WÄRMEREGELUNG UND INSTALLATIONSKIT

Title (fr)

ENCEINTE CLIMATIQUE A REGULATION THERMIQUE POUR SIMULATEUR DE MOUVEMENTS ET PROCEDE DE REGULATION THERMIQUE, KIT D'INSTALLATION

Publication

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Application

**EP 22737509 A 20220711**

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Abstract (en)

[origin: WO2023285398A1] The invention relates to a climatic chamber (3) having thermal regulation, for testing at least one device, wherein at least one thermoelectric assembly passes through the wall of the climatic chamber (3), each thermoelectric assembly comprising two faces, an inner face inside the climatic chamber and an outer face outside the climatic chamber (3). A heat exchange end (4) for an outer face of a thermoelectric assembly of a secondary thermal regulation circuit (9) is placed in thermal contact with each thermoelectric assembly outer face, the secondary thermal regulation circuit (9) being outside the climatic chamber and comprising a heat transfer fluid circuit, a cold source (8), a hot source (12), a mixing device (13), a circulating pump (15), and sensors (5a, 5b, 5c, 5d, 6, 7). A temperature regulation system of the chamber is configured to control the electric current of said at least one thermoelectric assembly and to control at least the mixing device (13) and the circulating pump (15) of the secondary thermal regulation circuit (9) on the basis of a chamber setpoint temperature and measurements from sensors (5a, 5b, 5c, 5d, 6, 7).

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