

baumann
te | box KLIMATESTER



TESTING UNDER EXTREME CONDITIONS

Electronic components and assemblies are often exposed to extreme temperatures, especially in the automotive industry. Different environmental conditions are simulated during the testing process in order to ensure reliable function of components under such circumstances.

Testing of components under hot or cold temperatures is the special feature of the **Baumann Klimatester**. Based on standard modules of the Baumann telbox, a cost- and energy-efficient modular construction system was developed.

Depending on component – PCB or control unit – and the associated test procedure, such as EOL, function test or HF test, a variety of requirements can be met.

The Baumann Klimatester has standardized loading/unloading methods, each of which is used depending on the integrated climate system.

Loading/unloading options Klimatester:

- Manually via drawer, rotary table or conveyor belt
- Automatically via conveyor belt and work piece carrier

Heating system (up to approx. 155 °C):

- Continuous heater
- Continuous heater (flow) with integrated cooling line (return)
- **CUBE**: Paternoster with loading/unloading at the same position

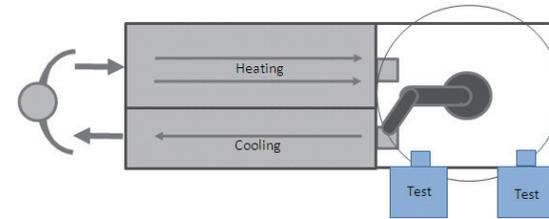
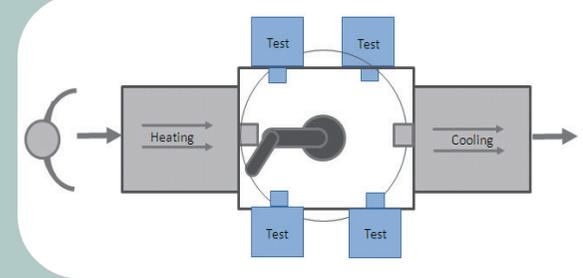
Cooling system (up to approx. -45°C):

- Continuous cooler
- Continuous cooler (flow) with integrated heating line (return)
- **CUBE**: Paternoster with loading/unloading at the same position

Continuous flow systems are particularly suitable for components that do not require a work piece carrier for transportation.

Continuous flow system:

Example with 4 test stations, loading/unloading separate, components simple form



Continuous flow system with return:

Example with 2 test stations, loading/unloading separate, components simple form

The **CUBE** was developed for complex components that would normally require a work piece carrier. It is already included as a component part in the **CUBE**, thus external work piece carriers are not necessary for this test.

CUBE:

Example with 2 test stations, loading/unloading separate, components complex form

