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## Tensile Test Cabinets ETE / EKE

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# Weiss Technik Tensile Test Cabinets Series ETE / EKE

Testing beyond the ambient conditions is essential for your tensile tests



## World climate zones at your fingertips

Weiss Technik series ETE / EKE offers a range of temperature and climate cabinets, specially designed for almost every tensile test bench in the market. The simulation of a wide range in temperature and humidity in combination with: Tension, Compression, Flexure and Fatigue can reveal the different effects on your products, whatever the climate zone.

## Reliable testing to ensure high product quality

Environmental conditions during production, storage, transportation and use can have a negative effect on the functionality and lifetime of a product. Climatic tensile tests must be carried out under predefined climatic conditions in order to demonstrate the quality of materials and substances. Often the results are indispensable in obtaining permission from the authorities for launching newly developed materials, substances or finished products onto the market.

## Applications

The importance of environmental controlled tensile testing is increasing in many applications:

- Plastics, Rubbers, Elastomers
- Composite materials
- Textile, Fibres
- Shoes, Prostheses
- Adhesives
- Metal parts
- Cables and wiring
- Asphalt, Concrete
- Ceramics, Glass

## Industries

Temperature and climate cabinets for tensile testing are used in a number of industries including:

- Automotive
- Aerospace
- Renewable Energy (windmills, PV modules)
- Packaging
- Medical
- Food
- Electronics
- Institutes and Universities

# ETE - EKE

## ETE - EKE series

3 Standard models are provided in the series:

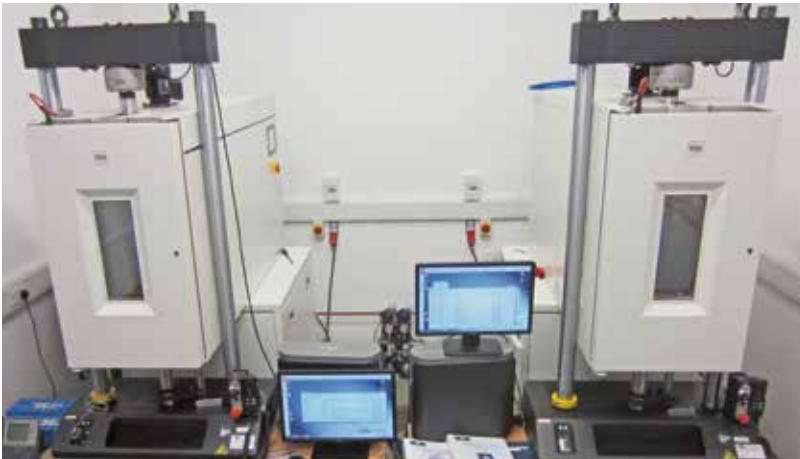
**E-type:** Extended system with air treatment and machine unit behind test space

**C-type:** Compact floor standing system on wheels

**M-type:** Machine unit separated with tube connection

C-type

Interior



M-type

E-type



## Technical Specifications

Product reference			Temperature ETE			Climate EKE		
			E-type	C-type	M-type	E-type	C-type	M-type
TEMPERATURE	Working range	°C	-30..+ 180	-30..+ 180 -60..+ 180	-30..+ 180 -60..+ 180	-30..+180	-30..+ 180 -60..+ 180	-30..+ 180 -60..+ 180
	Deviation (in time)	K	±1	±1	±1	±1	±1	±1
	Homogeneity (in space)	K	±2	±2	±2	±2	±2	±2
CLIMATE	Working range	°C	-	-	-	10..90	10..90	10..90
	Humidity range	%RH	-	-	-	10..95	10..95	10..95
	RH deviation (in time)	%RH	-	-	-	±3	±3	±3
	Dew point temp. range	°C	-	-	-	10..89	10..89	10..89

We reserve the right to make technical alterations.

# Excellence in Environmental Controlled Tensile Testing

## Weiss Technik Tensile Test Cabinets Series ETE / EKE

### Standard features:

- Volumes from 30 to 1000 litres
- Micro-processor monitoring and control Weiss SIMPAC or Eurotherm
- Stainless steel welded test space
- Entry port, nominal 50mm (2") diameter, in side wall with silicon plug
- Fan cut out switch at door opening
- Wedges for pull rods
- Door with heated window, multiple glass layers
- Testspace lighting
- Test space with axial air circulation ventilator
- Sterile steam humidifier system (for EKE models)
- Temperature sensor Pt100
- Capacitive humidity sensor (for EKE models)
- Connection for dried compressed air
- Air-cooled condenser
- De-mineralized water connection (for EKE models)
- Condensed water drain
- Refrigerant R404a/R23
- RS232 port

### Options:

- Software package SIMPATI for recording and processing of measurement values (Simpac)
- Observation window in side wall
- Lead trough for extensiometer
- Pull rod wedge reducers
- Product protection T min - max with Pt100
- LN2 Cooling for temperatures down to -180°C
- High temperatures up to 250°C
- Extra temperature sensor Pt100
- Low dew points (with compressed-air dryer)
- Ethernet interface
- Wheels
- Roller carriages
- Special tailor made executions

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