

Product Information

Temperature chambers

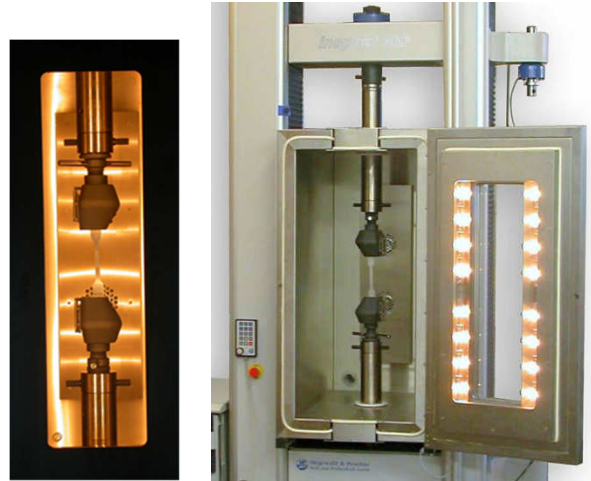


Applications:

Temperatur chamber in an universal testing machine inspekt 250kN:



Testing of plastics and composite materials:



Temperature chamber in an universal testing machine inspekt table 10kN:

Tensile test on CFK-specimens with hydraulic grips:



Bending test on CFK-specimens with hydraulic grips:



Changing device:

Tensile test on Round specimens:



Wedge action grips:



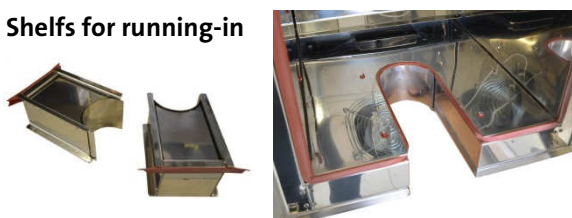
Your contact person:

Technical information:

Type	T 17 LN2-d	T 56 LN2-d	T 56 LN2
Temperature	-70° to +250°C	-70° to +250°C	-70° to +250°C
Heat-/ Cooling speed on average with an empty test room	+5°C/min - 5°C/min	+3°C/min - 3°C/min	+5°C/min - 5°C/min
Resulation temperature measuring	0,1°C	1°C	0,1°C
Temperature constance in the test room	± 1 °C to 2°C temporal	± 2 °C to 2°C temporal	± 0,5 °C to 2°C temporal
Test room inside width	250 mm	250 mm	250 mm
Test room inside height	230 mm	530 mm	530 mm
Test room inside depth	300 mm	420 mm	420 mm
Housing width	400 mm	400 mm	400 mm
Housing height	400 mm	700 mm	700 mm
Housing depth	850 mm	1030 mm	1030 mm
Housing	Housing RAL7035, blue degraded without logo, housing inside steel		
Window in the door (WxH) in mm anti-reflective coating + heated for optical measurement	150 x 130	130 x 450	130 x 450
Shelfs for running-in	yes	no	yes
Gestängedurchführung D _c (mm)	80 mm	80 mm	80 mm
Cooling	LN, direct	LN, direct	LN, indirect
Voltage/ Frequency	230V 50/60Hz	230V 50/60Hz	400V 50/60Hz
Equipment	Temperature chamber control, TC flexible, also attachable to specimens, Eurotherm with interface, RS485 (ModBus), test room lighting, middle, in front of the test axis, door stop left		

Features:

Shelfs for running-in



With shelfs for running-in grips can be integrated or removed into the test room of the temperature chamber.
So, the setup time get lower.

Ventilator and sensor

In the whole warm test room is a ventilator integrated for a consistant heat allocation. The Pt-100-thermal element is a sensor, which is arranged in a convection current that a temporally and locally optimal control behavior is guaranteed. Additional thermo couples , for example regulating the temperature on the sample surface, can be integrated.

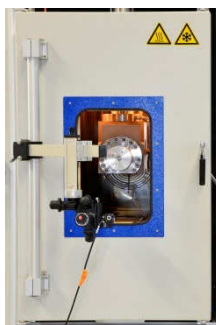


T 71 LN2	T 182 LN2	T 217 LN2	T 346 LN2
-70° to +250°C	-70° to +250°C	-70° to +250°C	-70° to +250°C
+5°C/min -5°C/min	+5°C/min -5°C/min	+5°C/min -5°C/min	+5°C/min -5°C/min
0,1°C	0,1°C	0,1°C	0,1°C
± 0,5 °C to 2°C temporal	± 0,5 °C to 2°C temporal	± 0,5 °C to 2°C temporal	± 0,5 °C to 2°C temporal
250 mm	440 mm	440 mm	570 mm
680 mm	680 mm	810 mm	810 mm
420 mm	610 mm	610 mm	750 mm
400 mm	590 mm	590 mm	720 mm
850 mm	850 mm	980 mm	980 mm
1030 mm	1200 mm	1200 mm	1350 mm
housing RAL7035, blue degraded without logo, housing inside steel			
130 x 450	130 x 450	130 x 450	130 x 450
Yes	Yes	Yes	Yes
80 mm	112 mm	112 mm	112 mm
LN, indirect	LN, indirect	LN, indirect	LN, indirect
400V 50/60Hz	400V 50/60Hz	400V 50/60Hz	400V 50/60Hz

Temperature chamber control, TC flexible, also attachable to specimens,
Eurotherm with interface, RS485 (ModBus),
test room lighting, middle, in front of the test axis,
door stop left

Window

Thermo glas windows guarantee thermal insulation, while allowing observation of the testing process and the strain measurement with optical systems in the test room. Anti-reflective coating windows and a window heating ensure optimum optical conditions.



Control



The microprocessor controls for the parameters of temperature and time ensures reliable and continuous control of the thermal chambers. With the Eurotherm temperature controllers, complex processes and program controlled via an interface of the material - testing software and manage.

Spacer rings



The spacer rings are used for thermal insulation of the bushings of the application of force linkage in the temperature chamber.