

MKT series: Precise simulation at extremely low temperatures

MKT series low-temperature test chambers meet all requirements for testing under extreme temperature conditions between -70 °C and 180 °C. Outstanding cooling and heating performance permit rapid temperature changes at any time and an unparalleled ease of operation. The MKT series is equipped with automatic process control, color display, documentation software, and comprehensive standard features.



► Performance features and equipment:

- Electronically controlled APT.line[®] preheating chamber technology
- Temperature range from -70 °C to +180 °C (-94 °F to +356 °F) (at an ambient temperature of 25 °C / 77 °F)
- MCS controller with 25 storable programs of 100 sections each for a maximum of 500 program segments
 - User-friendly LCD color screen
 - Easy-to-read menu guide
 - Integrated electronic chart recorder
 - Variety of options for the graphic display of process parameters
 - Real-time clock
- Heated viewing window with interior lighting
- Variable adjustable high-performance fan
- Programmable condensation protection for test material
- Adjustable ramp functions via program editor
- Environmentally friendly refrigerants R 404a and R 23
- Independent adjustable temperature safety device, Class 2 (DIN 12880)
- 230 V power socket on the right-side operating panel
- Potential-free relay outputs that can be activated via MCS controller
- RS 422 interface for communication software APT-COM[®] DataControlSystem
- Access port, Ø 80 mm (3.1 inch), right side
- 2 stainless steel shelves





MKT 240

Exterior dimensions	
Width (mm/inch)	1140 / 44.9
Height (incl. feet/castors) (mm/inch)	1860 / 73.2
Depth, excl. 45 mm (1.8 inch) for door handle (mm/inch)	948 / 37.3
Wall clearance (mm/inch)	160 / 6.3
Viewing window width (mm/inch)	500 / 19.7
Viewing window height (mm/inch)	360 / 14.2
Number of doors	1
Interior dimensions	
Width (mm/inch)	800 / 31.5
Height (mm/inch)	600 / 23.6
Depth (mm/inch)	500 / 19.7
Interior volume (l/cu.ft.)	240 / 8.6
Shelves (number standard/max.)	2 / 6
Load per shelf (kg/lbs.)	30 / 66
Permitted total load (kg/lbs.)	70 / 155
Weight (empty) (kg/lbs.)	360 / 795
Temperature data	
Temperature range (°C/°F)	-70* to +180 -94* to 356
Temperature fluctuation (± °C)	0.1 to 0.4
Temperature variation (± °C)	0.5 to 2.0
Mean heating rate acc. IEC 60068-3-5 (K/min.)	6.6
Mean cooling rate acc. IEC 60068-3-5 (K/min.)	3.8
Heating up time from -40 °C up to 180 °C (Min.)	45
Cooling down time from 180 °C up to -40 °C (Min.)	90
Heat compensation max. (W)	1500
Electrical data	
Housing protection acc. to EN 50529	IP 20
Nominal voltage (± 10%) 50/60 Hz (V)	400 (3N)
Nominal power (W)	4000
Noise level (ca. dB(A))	62
Individually tested in compliance with VDE 0113	✓

* Valid at an ambient temperature up to 25 °C (77 °F)

All technical data are specified for units with standard equipment at an ambient temperature of + 25 °C (77 °F) and a voltage fluctuation of ± 10 %. The temperature data are determined in accordance to DIN 12880, part 2 respecting the recommended wall clearances of 10 % of the height, width and depth of the inner chamber. All indications are average values, typical for units produced in series. We reserve the right to alter technical specifications at all times.