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Programmable Thermal Shock Chamber Product Specifications

Product model: IE31A series

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Equipment Overview:

Programmable Thermal Shock Chamber is used for users to conduct **corresponding climate mutation tests** on <u>complete products</u> (or <u>components</u>), <u>electrical appliances</u>, <u>instruments</u>, <u>materials</u>, <u>coatings</u>, <u>plating</u>, etc.

It is suitable for **high and low temperature testing** on electrical, electronic, mechanical industries and other products, components, materials, etc.,

Humidity and heat test: conduct hot and cold shock test under simulated temperature and humidity changes to evaluate the quality of the test product.

Applicable standards:

- GB/T2423.1-2001Low temperature test method;
- GB/T2423.2-2001;
- GB/T2423.22-1989Temperature change test;
- National Military StandardGJB150.3-86;
- National Military StandardGJB150.4-86;
- National Military StandardGJB150.5-86;
- GJB150.5-86Temperature shock test
- GJB360.7-87Temperature shock test;
- GJB367.2-87 405Temperature shock test;
- J/T10187-91Y73 Temperature change test chamber—three-box type;
- Meets the standard IEC68-2-14_Test method N_Temperature change.

Specificities:

- Energy saving and consumption reduction: Use gas-liquid bypass mode to adjust the cooling capacity to achieve constant temperature and humidity.
- Easy to operate: Programmable color LCD touch controller can be combined with PID control; experimental data recording and processing methods are flexible.
- High reliability: all key components are imported to ensure service life and reliability.



Specification:

Model	IE31A80L	IE31A100L	IE31A150L	IE31A225L	IE31A408L
Temperature range	-55°C ~ +150°C				
Temperature fluctuation	±1℃				
Temperature uniformity	≦2.0°C				
Temperature	Within 5Minc				
recovery time					
Heating rate (heat	It takes about 40 minutes to rise from RT to It takes about 50 minutes to rise from RT to +150°C				
storage area)	+150°C				
Cooling rate (cold	It takes about 65 minutes to drop from RT				
storage area)	to -55℃				
Inner box size: WxHxD(mm)	500x400x400	500x400x500	500x600x500	500x750x600	600×850×800
Carton size: WxHxD(mm)	1480×1450 ×1950	1480×1485×2050	1500×1750×2150	1600×1900×2250	1800x2000x2500
Insulation box	 Outer wall material: high-quality carbon steel plate, surface treated with electrostatic color spraying. The left side of the box has a diameter of φ50mm. Inner wall material: SUS304# matte stainless steel plate. Insulation material: rigid polyurethane foam insulation layer + glass fiber. 				
Chamber door	For single-door doors, install a door frame heating wire at the door frame to prevent condensation on the door frame at low temperatures.				
Observation	Install a W 300×H 400mm observation window on the door. The multi-layer hollow electrothermal coated glass				
window	can effectively preserve heat and prevent condensation.				
sample holder	Stainless steel sample rack with 2 layers, adjustable layer height, load capacity 30kg/layer.				
Refrigeration Compressors	French Taikang fully enclosed compressor	German Bitzer semi-closed compressor	German Bitzer semi-closed compressor	German Bitzer semi-closed compressor	German Bitzer semi-dense type compressor
Refrigerant	Non-fluorine environmentally friendly refrigerant R404A R23 complies with environmental regulations, safe and non-toxic				
Condenser method	Air-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Safety protection device	Heater anti-air fire protection; heater over-current protection; circulation fan over-current and overload protection; compressor high-voltage protection; compressor over-heat protection; compressor over-current protection; over-voltage reverse phase protection; line circuit breaker; leakage protection.				
Power supply	AC380V;50Hz;18KW	AC380;V50Hz;18KW	AC380;V50Hz;22KW	AC380;V50Hz;22KW	AC380;V50Hz;25KW