



GenRoss-CH – Ross Flex Tester with Low Temperature Chamber

Standards: [ASTM D1052](#), [ISO 5423](#), [SATRA TM 60](#),
[SATRA TM 92](#), [HG/T 2411](#)



ULTIMATE USER-FRIENDLINESS



LEADING DEPENDABILITY AND RELIABILITY



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LIFETIME PRODUCT SUPPORT ADVANTAGE

Description

GenRoss-CH is primarily used to test the cold resistance and folding resistance of shoes and shoe materials. Its purpose is to assess the adaptability of materials or finished products to low-temperature climates or cold regions. The instrument can accommodate various folding devices.



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GenRoss-CH Features

- **Body surface treatment:** The body is coated with US manufacture DuPont powder using an electrostatic spray painting process. It is then cured at high temperatures of 200 °C to ensure long-lasting color fastness.
- **Inner liner:** The inner liner is made of high-quality stainless steel material, and its semi-circular four-corner design facilitates convenient cleaning.
- **Air circulation and temperature uniformity:** The instrument is equipped with reasonable air ducts and circulation systems to ensure good temperature uniformity within the testing chamber.
- **Air convection and breeze devices:** High-performance motors and blades are installed, along with air convection and breeze devices. These facilitate the updating and circulation of air within the chamber.
- **Enhanced performance:** The use of nanostructured material for door seals and insulation materials enhances the overall performance of the machine.
- **Shell construction:** The shell is made of cold-rolled steel plate and coated with plastic using an electrostatic spraying process.
- **Compressor:** The instrument utilizes the original Taikang compressor, known for its strength and reliability.
- **Insulation material:** The box is insulated with 100mm high-temperature resistant rigid polyurethane foam.
- **Heater:** The instrument employs a finned heat dissipation tube-shaped stainless steel electric heater.
- **Cold and heat exchange device:** The instrument adopts an ultra-high efficiency SWEP cold and heat exchange design for effective cold and heat exchange.
- **Temperature controller:** The instrument is equipped with a Taiwan Weilun TH7010 Touchable Intelligent Programmable Temperature Controller, which offers precise control and ease of use.



Standard Configuration



1. Test piece size: 152 × 25mm
2. Bending angle: 90 °
3. Number of test pieces: 6 sets
4. Twist speed: 0-100 ± 5cpm adjustable
5. Diameter of winding shaft: 10mm
6. Cutting edge: 2.5mm
7. Counter: LCD, 0-9999999



GenRoss-CH Technical Specifications

Parameter	Value
System	Balanced temperature regulator wet control system
Temperature range	-20 °C~+150 °C
Temperature fluctuation	≤ ± 0.5 °C
Temperature uniformity	≤ 2 °C
Temperature accuracy	± 0.2 °C
Heating time	+25 °C → +85 °C Normal temperature to 85 °C takes about 30 minutes without load
Cooling time	+25 °C → -40 °C Normal temperature to -40 °C It takes about 50 minutes without load
Window	12.60 x 16.53 x 1.57-inches / 320 x 420 x 40mm 3-layer vacuum tempered glass
Door hinge	SUS # 304 imported hinge
Energy saving light inside the box	LED light emitting method
Lead hole	φ 1 50mm (with 1 rubber plug)
Heating rate	3-5 °C/min (average)
Cooling rate	0.7~1 °C/min (average)
Inner box dimensions	15.75 x 19.68 x 15.75-inches / 400 x 500 x 400mm
Outer box dimensions	41.34 x 78.74 x 45.28-inches / 1050 x 2000 x 1150mm



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Parameter	Value
Power supply	AC220V 1ph 50/60 Hz

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