GHR-01A Glass Grain Hydrolytic Resistance Tester

Application

The glass grain hydrolytic resistance test in medicinal glass packaging is an essential quality control test designed to assess the chemical stability of glass material against water. This test helps to determine the extent to which the packaging materials will interact with the pharmaceuticals they contain, potentially affecting the stability and safety of the medications.

The GHR-01A Glass Grain Hydrolytic Resistance Tester is applicable for the preparation of water resistance samples of glass granules used in medical glass products such as infusion bottles, injection bottles, ampoule bottles, and oral liquid bottles. Based on the requirements for water resistance sample preparation of glass granules, the process intelligently carries out the crushing of glass and automatic vibratory sieving, featuring a high degree of automation in the equipment.

Standards

ISO 719: Glass - Hydrolytic resistance of glass grains at 98℃ - Test method and classification
ISO 720: Glass - Hydrolytic resistance of glass grains at 121℃ - Test method and classification

Test Principle

The glass sample is placed into the mortar, where the pestle automatically descends and smashes the glass product into fragments. The tester then automatically vibrates the set of sieves, separating the qualified samples from the glass granule waste for collection.

Features and Benefits

1. Smartly automated, the tester combines crushing and vibration sieving into one unit, selecting standard-compliant sample sizes.
2. HMI screen operations ensure straightforward human-machine interaction.
3. With less manual handling, sample preparation is safer for personnel.
4. Safety devices shield against glass splatters, maintaining test integrity.
5. The eco-friendly process includes specialized glass waste collection.
6. Automated sieving boosts test precision.
7. A limit switch function adds automatic safety measures.
8. Its vertical design lessens gravitational effects on samples, ideal for larger sizes.

Main Parameters

Mortar/Pestle Dimension	Φ50/Φ48 mm
Sieve A Aperture	425μm
Sieve B Aperture	300μm
Sieve O Aperture	600μmμm
Sieve Shaking Duration	5min
Gas Pressure	0.5 MPa
Gas Port Size	Φ6 mm
Power	AC 110~220V 50Hz

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