

YKH-6538

Automatic Cold Cranking Simulator (CCS) Viscosity Tester



Overview

YKH-6538 Automatic Cold Cranking Simulator (CCS) Viscosity Tester conforms to ASTM D5293 Standard Test Method for Apparent Viscosity of Engine Oils and Base Stocks Between -5 and -35°C Using Cold-Cranking Simulator. An electric motor drives a rotor that is closely fitted inside a stator. The space between the rotor and stator is filled with oil. Test temperature is measured near the stator inner wall and maintained by removing heat with a controlled process to maintain a constant stator temperature during test. The speed of the rotor is calibrated as a function of viscosity. Test oil viscosity is determined from this calibration and the measured rotor speed.



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Features

1. One-button touch screen operation for test, current calibration, fast and simple
2. Imported compressor cascade refrigeration, the required stator temperature is reached within 60s
3. Simple calibration and automatic storage of coefficients
4. Built-in Windows system, a large amount of data is stored, and it can be printed
5. Imported precision bearings, hard shaft connected to the rotor, high stability and performance
6. Imported original CANNON standard oil calibration, repeatability $\leq 5.4\%$, repeatability $\leq 2.6\%$
7. Can store and print experimental results
8. Equipped with negative pressure cleaning device, cleaning is completed within 60s, simple and fast

Technical parameters

1. Rated voltage: AC 220V $\pm$ 20%
2. Power: Dedicated cooling source, 2200W; Main host, 600W
3. Temperature range: External circulation alcohol bath temperature control range room temperature $\sim -65^{\circ}\text{C}$
4. Viscosity measuring range: 1500 $\sim$ 27000mPa.s
5. Cleaning mode: Negative cleaning

Ambient requirements: Temperature 5 $\sim$ 40 $^{\circ}\text{C}$; Humidity $\leq$ 85%