



**Model: AIC-3829**

## Borderline Pumping Temperature Tester

This instrument is suitable to measure borderline pumping temperature, yield stress at low temperature and apparent viscosity of engine oils. The temperature controlling range is  $-5^{\circ}\text{C} \sim -40^{\circ}\text{C}$ .

All test procedures are automatically controlled by computer.

## I. Main features

1. Temperature controlling range:  $-5^{\circ}\text{C} \sim -40^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$ .
2. Multipoint temperature correction, high temperature measuring accuracy.
3. Semi conductor refrigeration, fast and precise.
4. Computer monitors temperature, cycle and rotor motion.
5. It has function of delay start, which is convenient for user to control test process flexibly.
6. Upgraded pulley assembly improves its stability and sensibility, tested by photoelectric sensor.
7. 5 rotors can test simultaneously.
8. Rotor has thermal transparent perspex cover
9. Micro computer controller, Window operation system, English interface
10. Program automatically conducts nonlinear curve temperature control, and measure yield stress and apparent viscosity.
11. Temperature control curve can be made as per user's requirement.
12. It can calibrate and store viscometer constant.
13. Test result can be saved and printed.
14. It can calculate and print out borderline pumping temperature of "gas resistant type" and "flow restricted type".
15. It is equipped with special low temperature constant equipment.
16. It is equipped with new designed defrosting system.

## II. Technical specifications

1. Applicable standards: ASTM D3829, ASTM D4684, GB/T9171
2. Refrigeration method: imported air compressor
3. Temperature controlling method: programmable temperature controlling
4. Heating method: electric heating pipe
5. Detection method: photoelectric tube
6. Working units: 5
7. Power supply: AC220V, 50Hz
9. Total power: 1200W
10. Working temperature: 80~-40°C
11. Dimension: main unit 470\*320\*420mm<sup>3</sup> ; low temperature bath 360\*650\*660mm<sup>3</sup>
12. Weight: main unit 20KG; low temperature bath: 40KG

