



## VISCOMETER PETROLEUM EQUIPMENT BJL1F1 (BPTL-109)

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## COLD CRANKING SIMULATOR MACHINE

Cold Cranking Simulator is used to measure the apparent viscosity of engine oil at low temperature (-35 °C ~ -5 °C). Method summary: Drive a rotor closely matched with the stator by a DC motor, and fill the gap between the rotor and the stator with samples.

The temperature is controlled by the temperature control system, and the motor speed is corrected with standard oil to make it a function of viscosity. Determine the sample viscosity by measuring the rotation speed. The rotor and stator system of the Cold Cranking Simulator uses a thermoelectric temperature control system. Compared with the previous model, the temperature control is improved, the preheating time is reduced, and the measurement accuracy is improved. The compact structure is easy to install and use.



- 1.The CCS machine can automatically detect rotation speed,control current,and reduce error;
- 2.Refrigerated by semi-conductor;
- 3.The Apparent Viscosity Tester adopts imported motor,accuracy is high;
- 4.LCD displays all working status;
- 5.It can connect printer to print out result;
- 6.Result can be calculated automatically after calibrating with standard oil;
- 7.Micro-computer controlling,Windows operation system,complete English interface;
- 8.Updated rotor,low rotor torque test status,high repeatability;
- 9.Automatically generate calibration curve,directly display measured result of viscosity;

## SPECIFICATIONS

Model	BJL1F1
Old Model	BPTL-109
Applicable standard	GB/T6538, ASTM D2602, ASTM D5293
Refrigeration method	Semi-conductor
Circulation method	Multifunctional plastic steel pump
Temperature controlling method	Digital PID temperature controller
Detection method	Manual sampling, automatic cleaning, automatic test
Data processing	Automatic saving
Temperature controlling range	-5°C, -10°C, -15°C, -20°C, -25°C, -30°C, -35°C (optional -40°C)
Temperature controlling accuracy	±0.02°C
Power supply	AC220V, 50Hz
Working units	1
Measuring range	1500~15000CP
Control	PC
Operation	Automatic
Warranty	1 Year
Alt Name	Cold Cranking Simulator Machine

## FEATURES

- 1.The CCS machine can automatically detect rotation speed,control current,and reduce error;
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- 3.The Apparent Viscosity Tester adopts imported motor,accuracy is high;
- 4.LCD displays all working status;
- 5.It can connect printer to print out result;
- 6.Result can be calculated automatically after calibrating with standard oil;
- 7.Micro-computer controlling,Windows operation system,complete English interface;

8. Upgraded rotor, low rotor torque test status, high repeatability;
9. Automatically generate calibration curve, directly display measured result of viscosity;
10. All test procedures are controlled automatically, when test is over, it can stop and raise temperature automatically.
11. The Apparent Viscosity Tester recommends refrigeration temperature automatically
12. Rotary encoder detects rotation speed;
13. Measuring range: 1500~15000CP;
14. It can edit 10 types standard oil results;
15. This viscosity tester is equipped with a low temperature cooling device.



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