

PROGRAMMABLE REFRIGERATED BATHS for POUR POINT STABILITY

- Operating Temperature 25° to -55°C
- Temperature Stability of $\pm 0.1^\circ\text{C}$
- Programmable Cooling Rate from 0.1° to 10°C per Hour
- Digital Indicating PID Temperature Controller
- Liquid Bath for Manual Testing
- Fully Automated Apparatus

Model 203C programmable liquid bath meets the specifications and requirements of FTM791, Test Method 203, Cycle C for testing Pour Point Stability of Lubricants. It can also be programmed for John Deere JDQ 71 and 74 Slow Cool Test, as well as for ASTM D4539 Low Temperature Flow Test (LTFT) (requires an addition of a beaker holding rack). It is also useful for any other test where programmed cooling and/or heating is specified.

The floor model liquid bath is mechanically refrigerated capable of operating from +25°C to -55°C. The digital programmable controller, displaying both set point and actual temperature, maintains the bath temperature within $\pm 0.1^\circ\text{C}$ of set point. The bath is protected against over heating in the event of primary controller failure. The fully insulated stainless steel bath with the top opening insulated cover has a capacity for 35 pour point test cells.

Cabinet dimensions are 28 x 36 x 43 inches high (70x 90x 108 cm). Shipping weight is 440 lbs, 41 cu. ft.

Model DR-203 is a two position instrument capable of automatically measuring the pour point stability as per FTM791-203C test method as well as pour point by ASTM D97. The instrument is similar to the automated pour point instruments described on page 10 and 11 with the addition of programmed cooling and heating routine as specified by Method 203, Cycle C and JDQ 71 Pour Point Stability Method.

Model DR-203 is directly refrigerated eliminating the need to pump cold alcohol from a bulky and noisy cryostat. The operating temperature range is from 25° to -70°C.

Other model are available with addition of automated cold filter plugging point (CFPP), freeze point and cloud point. Any number of analyzers can be accommodate in a mix or match combination from 1 to 4 test units.

Also for Methods:

ASTM	D4539
FTM	791-203 Cycle C
JDQ	71, 74



▲ Model 203C



▲ Model DR-203