

# Seta Oil Test Centrifuge

## 4-Place Centrifuge (90000-3)

## 6-Place Centrifuge (90100-0)

ASTM D91; D96 (Obs); D893; D1290; D1796; D1966; D2273; D2709; D4007; IP 75 (Obs); IP 539 (Obs)

- 4 or 6 place swing out rotor
- Specifically designed for testing oils
- Heated chamber, ambient to 80°C
- Static, near vertical bucket positioning
- Membrane 'touch' control panel
- Pre-heat facility to ensure bowl is at test temperature prior to test
- Conforms to IEC 1010-1 & 1010-2-D safety requirements

The Seta Oil Test Centrifuge has a four or six place swing out rotor and universal bucket assembly which accommodates low cost adaptors and cushions suitable for borosilicate glass centrifuge tubes of the types specified for oil testing: Conical (6 or 8 inch), Trace Sediment (8 inch), Pear-shaped (8 inch or 12.5ml).

To reduce errors in measurement of tube content the Centrifuge has a purpose-made, large dimension heated bowl. This allows the special dimension test tubes (as required by relevant methods) to return to the near upright position following rotation.

The Centrifuge has a hinged lid that opens to the fully upright position which allows easy loading/unloading of tubes and access for cleaning the instrument between tests.

Speed, temperature, and timing are microprocessor controlled. The run parameters are entered via a liquid proof 'touch panel' and digital displays.

### Precise Heating for Accurate Results

The Seta Oil Test Centrifuge incorporates isothermal heaters which are fitted internally to the centrifuge chamber giving precise temperature control to within +/-1°C as required by the test methods.

A controlled isothermal band heater holds the sample temperature between 30 and 80°C, and is programmed to compensate for friction heating effects during operation thus ensuring correct sample temperatures throughout the test. A brushless asynchronous motor ensures high reliability with low maintenance and the centrifuge has in-built error messaging diagnostics.

Speed can be specified and measured in either RPM (rotational speed) or RCF (relative centrifugal force) mode. The run duration can be set between 10 seconds and 100 hours in 10 second and one-minute increments, or set for continuous operation. Acceleration and braking time are user adjustable and users can store up to 99 run profiles in the memory.

### Fast & Easy Operation

The instrument incorporates 9 programme memories that allow a user to configure the instrument to automatically operate to the specified test parameters; this saves time, eases operation and assists repeatability. In addition, the instrument has a 'Quick run' mode which allows short runs of up to 99 seconds. Manually operated centrifuges require the user to make a set up procedure for each test which takes time and may prevent repeatable results from being obtained.

### Advanced Safety Features

The Centrifuge meets the safety requirements of BS 4402; DIN 58970; IEC 1010-1; IEC 1010-2-D; EN 61 010-1; BGR 500; Chapter 2.11; Part 3; UVV VBG4; and VDE 0871.

Safety features include a motor driven lid latch with a safety interlock to prevent centrifuge operation while the lid is unlocked, imbalance detection, and over-temperature protection for both the motor and the chamber. The centrifuge is almost silent in operation with measured noise levels below 55 dB (A).

An optional 'Setafuge' Hazard Reduction System can be fitted directly into the centrifuge to extract vapours from the chamber and significantly reduce vapour hazards.

The instrument is designed for high throughput operation and for ease of service. Integral self-diagnostic mode allows rapid identification of operating performance and/or trouble shooting.

## Centrifuge Tubes

- 100ml Long & Short Cone, Trace Sediment, and 12.5ml Finger Tubes
- Manufactured in strict compliance to test methods
- Permanently etched graduations
- High visibility white lined markings
- Optional factory certified, 7 point, long cone tubes



• 4 Place Centrifuge (90000-3)



• 6 Place Centrifuge (90100-0)



• Centrifuge Tubes

Product Reference:	90000-3 (4-place) or 90100-0 (6-place)
Maximum RCF:	2214
Maximum RPM:	3000
Temperature Range:	30 to 80°C (± 1°C) (86 to 176°F)
Timer Range:	1 to 60 minutes in 1 minute steps, Continuous Operation
Rotor Capacity:	4 or 6 place samples (order reference 90100-0 for 6 place)
Power Requirement:	230Vac (110V transformer option) 50/60Hz / 1kW
Size (HxWxD) / Weight:	40.1 x 56.4 x 63.9cm / 86kg