

## Seta Oil Test Centrifuge

API 2542, API 2548, ASTM D1290, ASTM D1796, ASTM D1966, ASTM D2273, ASTM D2709, ASTM D2711, ASTM D4007, ASTM D5546, ASTM D893, ASTM D91, ASTM D96 (obs), IP 359, IP 75 (obs), ISO 3734, ISO 9030

- ✓ Specifically designed for testing oils
- ✓ Conforms to safety requirements IEC 1010-1; 1010-2-D
- ✓ 4 place swing out rotor
- ✓ Static, near vertical bucket positioning
- ✓ Universal buckets for 12.5ml, 6 and 8 inch glassware
- ✓ Heated chamber, ambient to 80°C
- ✓ Membrane 'touch' control panel
- ✓ Small footprint & Lightweight design
- ✓ Pre-heat facility to ensure bowl is at test temperature prior to test
- ✓ Optional 'Setafuge' Hazard Reduction System
- ✓ Microprocessor control with 99 memories
- ✓ Optional trolley



The Seta Oil Test Centrifuge is a microprocessor controlled, heated centrifuge which is specifically designed to meet oil test parameters for determining sediment and water in crude oil.

### LARGE CHAMBER SIZE TO ACCOMMODATE ALL CENTRIFUGE TUBES

A four place swing out rotor and universal bucket assembly 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.

### MEMBRANE 'TOUCH' CONTROL PANEL

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 AND COMPLIANCE WITH LABORATORY SAFETY REQUIREMENTS

The use of a centrifuge in conjunction with volatile samples at elevated temperature can result in the production of vapours which may be hazardous (flammable and/or toxic). The Seta Oil Test 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).

The Seta Centrifuge can be fitted with the unique '**Setafuge**' Hazard Reduction System. This optional device is plugged directly into the centrifuge, extracting vapours from the chamber and significantly reducing 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.

### **SPECIFICATIONS**

Seta Product Reference:	90000-3
Maximum Relative Centrifugal Force (RCF):	2214g
Maximum Rotational Speed:	3000 rev/min
Temperature Range:	30 to 80°C (switchable °F)
Timer Range:	10 sec to 100 hours or continuous operation
Control:	Microprocessor with 99 memory capacity
Capacity:	4 Samples
Voltage range:	220/240V, 50/60Hz (Optional transformer for 110/120V)
Power:	950W
Size (HxWxD):	40.1 x 56.4 x 63.9cm
Weight:	72.5kg

*Supplied with: rotor, buckets and cushions*