

### CARBON & ASH RESIDUE

#### 97400-2 MICRO CARBON RESIDUE TESTER

ASTM D4530; IP 398; BS 2000 Part 398; ISO 10370

- Carbon residue range 0.1% to 30.0% (m/m)
- 12 sample capacity
- Automatic temperature ramp and gas control
- Equivalent to ASTM D189; IP 13
- Temperature range ambient to 500°C

An automatic airtight furnace that is pre-programmed to run tests to determine the Micro (Conradson) Carbon residue of petroleum products.

The digitally controlled furnace has a temperature range of ambient to 500°C. Temperature, flow and pressure values are automatically controlled and values are displayed on the control panel. The test cycle includes an audible 'end of test' alarm. A 6 place holder for 16ml sample tubes and a 12 place holder for 2ml or 4ml sample tubes are supplied with the instrument (for sample tubes see the Accessories box).

The instrument has an integral condensate trap and an exhaust outlet connection that allows fumes to be vented remotely if testing is not carried out under a fume hood. Low pressure and dual over-temperature cut-outs ensure safe operation. Fan assisted air cooling minimises time between tests.

**SUPPLIED WITH:** 12 place holder, 6 place holder, removal tool, condensate trap, oven lid, braided hose for N<sub>2</sub> gas (3m), rubber exhaust hose (5m), mains lead and instruction manual.



97400-2 (Sample Tubes supplied separately)

#### SPECIFICATIONS

Temperature range:	Ambient to 500°C ±2°C
Ramp rate:	10 to 15°C/min
Thermocouple:	Iron - constantan
Pressure controller:	20 to 750kPa
Primary pressure:	1400kPa max
Flowmeter:	0.1 to 1l/min
Flow rate:	Automatic, 150ml/min or 600ml/min
Consumption:	Approx. 40l/N <sub>2</sub> per test
Power:	1.6kW
Voltage:	110/120V, 50/60Hz 220/240V, 50/60Hz
Size (HxWxD):	46 x 35 x 39cm
Weight:	21kg

#### ACCESSORIES - Micro Carbon Residue Tester

##### REQUIRED

- 97401-0 GLASS SAMPLE TUBE, 2ml, pack of 100.  
 97402-0 GLASS SAMPLE TUBE, 16ml, pack of 100.  
 97403-0 GLASS SAMPLE TUBE, 4ml, pack of 100, for ISO 10370, for use with carbon residues below 0.2%.

*Note: Other items which may be required include: Nitrogen.*

##### OPTIONAL

- 97410-0 HOLDER, for mixed sample tubes (2 or 4ml x 6 and 16ml x 3).  
 99100-2 ANALYTICAL BALANCE, (for details see page 141).

#### 99220-2 SETA ASH FURNACE

ASTM D482; D874; IP 4; IP 163; EN 7; ISO 6245; NF M07-045; NF T60-143

Pre-heated airflow system and extended chimney. Maximum temperature 1100°C with over temperature cut-out and door safety power cut off switch.

**SUPPLIED WITH:** laboratory tongs, gloves, 5 x 100ml and 5 x 120ml tall form Porcelain Crucibles.



BIO-FUEL TESTING

#### ACCESSORIES -Ash Furnace

##### OPTIONAL

- 99100-2 ANALYTICAL BALANCE, (for details see page 141).  
 99200-2 LABORATORY OVEN for sample pre-conditioning, (for details see page 137).  
 99205-0 DESSICATOR, 200ml and disc.  
 99223-0 PLATINUM DISH, 90ml.  
 99224-0 ULTRA STIRRER AND STAND with dispersing element for sample pre-conditioning.

#### SPECIFICATIONS

Capacity:	7 litres
Chamber size (HxWxD):	9 x 17 x 46cm
Power:	3.9kW
Voltage:	220/240V, 50/60Hz
Size (HxWxD):	65 x 43 x 74cm
Weight:	63kg