### SEDIMENT

**16120-2 SETACLEAN TOTAL SEDIMENT TESTER**

ASTM D4870; IP 375; IP 390 (Procedure A); ISO 10307; BS 2000 Part 375; NF M07-063

- Measures sediment up to 0.5% m/m
- Sample viscosities up to 130mm²/s
- 10g sample size
- Two test stations

A compact bench-mounted unit for determining the insoluble material content of distillate and residual fuel oils.

Consists of two filtration cells, heating (steam) and cooling (water) circuits, and a vacuum circuit with Buchner flask and gauge. Each filtration cell comprises a steam heated/water cooled brass cup with a sintered brass disc to support the microfibre filters. Temperature test points are fitted into the steam input lines, and a digital indicator and probe are available as an accessory.

**SUPPLIED WITH:** Buchner flask with safety cover, 2 filtration cells, 100 filters, and instruction manual.

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**SPECIFICATIONS**

- **Test samples:** 10g
- **Waste flask capacity:** 500ml
- **Filters:** 2 per cell 47mm dia., Whatman type GF/A
- **Services:** Steam 100°C
  - Vacuum 40kPa absolute pressure
  - Cooling Water - ambient temperature
- **Connections:** 10mm dia. raffled nozzles
- **Size (HxWxD):** 40 x 47 x 18cm
- **Weight:** 8kg

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**ACCESSORIES – Setaclean Total Sediment Tester**

**REQUIRED**

- 14030-2 AIR PUMP, (for details see page 139).
- 16110-3 SETA STEAM GENERATOR, (for details see page 137).
- 16150-2 THERMOMETER, stirring-type as required by test method, 94 to 106°C.

**THERMOMETER:**

ASTM22C/IP42C

**Note:** Other items which may be required include: Dessicator, Beakers, Syringe, Weighing bottles, Forceps, Hotplate, Solvents, Mixer.

**OPTIONAL**

- 16125-0 DIGITAL THERMOMETER AND PROBE, to monitor steam input temperature.
- 99100-2 ANALYTICAL BALANCE, (for details see page 141).
- 99200-2 LABORATORY OVEN, (for details see page 137).

**OPTIONAL – IP 390 (Procedure A): ISO 10307-2 only**

- 16155-4 SETA FUEL OIL AGING BATH, with 6 air wells for 3 duplicate tests. Microprocessor controlled heater/stirrer is at 120°C ±0.5°C. Features low liquid and over temperature protection.

**SPECIFICATIONS**

- **Size (HxWxD):** 27 x 35 x 35cm
- **Power:** 1500W
- **Weight:** 10.5kg

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**SETAPLUS EXTENDED WARRANTY AVAILABLE**

**21300-0**

**SETA EXTRACTION APPARATUS**

ASTM D473; IP 53; API 2561; ISO 3735; BS 4382 (obs); FTM 791 3002; NF M07-010

- Sediment content of crude and fuel oils

Determines sediment content of crude oil and fuel oils by extraction with toluene. The sample is placed in a refractory thimble and washed with condensed toluene vapours leaving only insoluble matter, the residue is calculated as a percentage of the total mass. Comprises a tinned copper condenser coil, alumina refractory thimble of porous grade and an Erlenmeyer flask of one litre capacity.

**ACCESSORIES – Extraction Apparatus**

**REQUIRED**

- 21310-0 BASKET THIMBLE SUPPORT, ribbon type.
- 21320-0 WATER CUP, glass, pack of 5.

**OPTIONAL**

- 25000-3 SETA-HOT, 1000W, variable heat control, (for details see page 139).
- 21300-001 THIMBLE, with certificate of conformity.
- 99100-2 ANALYTICAL BALANCE, (for details see page 141).

**SPECIFICATIONS**

- **Size (HxWxD):** 20 x 13 x 13cm
- **Weight:** 1.5kg

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**21300–0, 21310–0 and 21320–0**