

**AUTOMATIC  
CONRADSON  
CARBON  
RESIDUE  
TESTER  
ACR-6**



**ACR-6** automates the evaporation process of the amount of carbon residue left after evaporation and pyrolysis of an oil. The carbon residue test is intended to provide some indication of relative coke-forming propensities.

The microprocessor controlled oven requires less experience to conduct the tedious process and therefore yields more consistent test result.

**EASY OPERATION:** Optimum heater output for prescribed burning process is programmed with ease prior to a test. Once a test starts, no further adjustment needs to be done.

**TEMPERATURE MONITORING SYSTEM:** As needed, with a thermocouple placed at the crucible, temperature can be monitored to obtain a constant temperature during the last 7min of process.

**EASY-TO-CLEAN:** Oven unit cover, control unit cover, hood and large Iron crucible with cover are made of stainless steel. Not only easy-to-clean but also durable.

**MODULAR DESIGN:** Oven and controller are separated so that only oven unit can be installed in fume hood. (Optional connecting cable is required.)

### SPECIFICATIONS:

#### CONFORMING STANDARDS:

ISO 6615, ASTM D189, IP 13, etc.

#### PROCESS CONTROL:

By built-in micro processor

#### HEATING DEVICE:

Nichrome coil heater, side and bottom,  
1.3kW@100V or 1.3kW@220V

#### IGNITING DEVICE:

Pilot burner system. LP gas or city gas,  
Pilot burner is ignited manually before each test

#### FLAME DETECTOR:

Sample vapor is ignited and extinguished by  
detecting temperature by means of sheath type  
thermocouple

#### COOLING DEVICE:

Forced air cooling by sirocco fan

#### TIME MONITOR:

Indicated by digital display:

\*Ignition time (from start to ignition)

\*Burning time (from ignition to heating start)

#### DIMENSION & WEIGHT:

Control unit: 250W × 360D × 190H (mm), 7.5kg

Oven unit: 190W × 260D × 440H, 5.5kg

#### UTILITY AND OTHERS:

##### POWER SUPPLY:

AC100/120V or 220/240V 50/60Hz 1.5kW(max.)

##### GAS SUPPLY:

LP gas or Natural gas (Max. pressure<9.8kPa)

##### OTHERS:

An analytical balance (not included)

### ORDERING INFORMATION:

#### STANDARD ACCESSORIES:

- |   |       |
|---|-------|
| 1. Porcelain Crucible                               | 10pcs |
| 2. Skidmore Iron Crucible with Cover                | 1set  |
| 3. Large Iron Crucible with Cover (stainless steel) | 1set  |
| 4. Large Iron Crucible Cover for Temperature Check  | 1pc   |
| 5. Crucible Temperature Checking Thermocouple       | 1pc   |
| 6. Hood   | 1pc   |
| 7. Power Connecting Cable, 1.0m                     | 1pc   |
| 8. Signal Connecting Cable, 1.0m                    | 1pc   |
| 9. AC Power Code, 3.0m (<AC125V) or 2.5m (>AC200V)  | 1pc   |
| 10. Gas Hose, 9 × 16 × 1500mm                       | 1pc   |
| 11. Gas Hose Band                                   | 2pcs  |
| 12. Instruction Manual                              | 1copy |

#### OPTIONAL ACCESSORIES:

Power Connecting Cable, 3m

Signal Connecting Cable, 3m

#### SUGGESTED SPARES:

- |  |       |
|--|-------|
| 1. Porcelain Crucible                          | 10pcs |
| 2. Skidmore Iron Crucible                      | 1pc   |
| 3. Skidmore Iron Crucible Cover                | 1pc   |
| 4. Large Iron Crucible (stainless steel)       | 1pc   |
| 5. Large Iron Crucible Cover (stainless steel) | 1pc   |
| 6. Heater Assembly, Side                       | 1set  |
| 7. Heater Assembly, Bottom                     | 1set  |
| 8. Thermocouple for Flame Detection            | 1pc   |
| 9. Pilot Burner                                | 1pc   |

Specifications subject to change without prior notice.

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