

Automated Cleveland Open Cup Flash Point Tester

ACO-T602



For Large Sample Numbers

Model ACO-T602 automatically carries out Cleveland Open Cup (COC) flash point test of up to 6 samples continuously. For large sample numbers, this carousel model reduces the burden on the laboratory personnel.

HIGHER LAB PRODUCTIVITY: The programmable 6-position carousel improves COC test throughput drastically.

EASY PROGRAMMING: Up to 12 types of sample data can be stored and later recalled for quick and easy programming.

ELECTRIC IGNITION: Reliable and easy-to-handle electric Ignitor is employed. Two pieces of coiled heater are placed near the sample cup rim. The ignitor has an extended period of life.

INNOVATIVE FLASH DETECTOR*: Ionization between the sample cup rim and either of the two electric igniters is detected as a flash occurs. The proven ionization method ensures highly reliable flash detection. Since the electric heater cleans by itself, the need for messy cleaning of ionization detector is minimized.

QUICK COOLING AFTER TEST: High velocity air cooling minimizes the waiting time between tests. The next test cycle is proceeded upon reaching a predetermined cooling time.

AUTO FIRE CONTAINMENT: ACO-T602 is equipped with a fire containment lid which activates automatically to help putting out fire when ACO-T602 detects specimen is burning up heavily.

DATA HANDLING: The unit is equipped to store up to 50 successive test results and export to the printer or to a LIMS through an RS232 port.

*: Patent No. 2610000 ('94 Japan) and No.5834630 ('98 USA)

SPECIFICATIONS:

RELATED STANDARDS:

ISO 2592, ASTM D92, IP 36, etc.

MEASURING RANGE:

Ambient to 400 °C

TEST MODE:

ASTM D92 Flash, Flash + Fire

Fire point must be visually monitored

DISPLAY:

Fluorescent display tube (VFD module)

PRINTER:

Thermal type printer (provided)

TEMPERATUR SENSOR:

PT-100 in stainless steel sheath

FLASH DETECTION:

Ionization between test cup and igniters (Patented)

HEATER:

Nichrome Coil heater: 1kW@100V or 1.2kW@220V

IGNITION SOURCE:

Dual Electric Igniters (platinum coil)

COOLING DEVICE:

Forced air cooling by sirocco fan

BAROMETRIC CORRECTION:

By built-in barometric pressure sensor

DATA OUTPUT:

RS-232C 1 channel

SAFETY MECHANISM:

Fire containment lid which activates automatically to help putting out fire when ACO-T602 detects a specimen is burning up heavily.

If flash is not detected until the temperature reaches EFP+30 °C or 400 °C, the test is terminated and cooling starts.

Automatically shuts off and the problem is reported by buzzer and display, in case:

- (a) Temperature sensor is found defective,
- (b) Flash detector is found defective,
- (c) Thermofuse is blown (Also fire containment lid activates),
- (d) Built-in battery is found drained out,
- (e) Upper arm switch is found defective,
- (f) Lower arm switch is found defective,

(g) Shutter open/close switch is found defective, or

(h) Control computer runs away (no display)

DIMENSION & WEIGHT:

Control unit: 230W x 455D x 110H (mm), 6kg

Test unit: 405W x 515D x 400H (mm), 33kg

Printer: 134W x 180D x 58H (mm), 0.6kg

INSTALLATION SITE:

Ambient temperature: 0 to 40 °C

RH: Less than 90% (no condensation)

POWER SUPPLY:

Single Phase AC100/120V or 220/240V 50/60Hz, (set at the factory) 1.7kW(max.), One line must be grounded.

ORDERING INFORMATION:

STANDARD ACCESSORIES:

- | | |
|--|-------------------|
| 1. Test Cup | 6pcs |
| 2. Tong | 1pc |
| 3. Power Connecting Cable, 0.6m | 1pc |
| 4. Signal Connecting Cable, 0.6m | 1pc |
| 5. AC Power Cord, 3.0m (<AC125V) | |
| | or 2.5m (>AC200V) |
| | 1pc |
| 6. Thermal Insulation (Heating Plate) | 6pcs |
| 7. Spare Electric Ignitor | 2pcs |
| 8. Spare Insulating Collar for Ignitor | 2pcs |
| 9. Spare Thermofuse (pack of 3, w/insulating tube) | 1pk |
| 10. Printer, BS2-80TS with AC Adapter and Connecting Cable, 1.0m | 1set |
| 11. Printing paper | 1pc |
| 12. Instruction Manual | 1copy |

OPTIONAL ACCESSORIES:

- Power Connecting Cable, 3m
- Signal Connecting Cable, 3m

SUGGESTED SPARES:

- | | |
|---|-------|
| 1. Electric Ignitor | 10pcs |
| 2. Insulating Collar for Ignitor | 10pcs |
| 3. Thermofuse (pack of 5, w/insulating tube) | 1pk |
| 4. Printing Paper | 10pcs |
| 5. Temperature Sensor | 1pc |
| 6. Nichrom Heater Coil 1kW@100V or 1.2kW@220V | 1pc |

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Lab-Set doo
Radnička 30a, 21000 Novi Sad, Srbija
Tel. +381 (0) 21 454040
Fax. +381 (0) 21 459933



TANAKA SCIENTIFIC LIMITED

7-10-3 Ayase, Adachi-ku, Tokyo 120-0005 JAPAN

TEL: +81-3-3620-1711 FAX: +81-3-3620-1713

URL: <http://www.tanaka-sci.com>

E-mail: overseas-group@tanaka-sci.com