

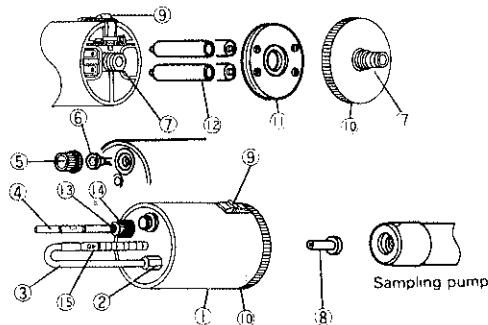
PYROTEC PYROLYZER MODEL 840

Pyrotec Pyrolyzer has been designed to measure the chemically stable substances that cannot be detected by the standard aspiration type gas detector tube system. This system can pyrolyze the stable substances like halogenated hydrocarbons and can convert the gases to be measured by the standard aspiration detector tube system.

1. SPECIFICATION:

Battery Life: 2 continuous hours
 Warming-up time: 2 minutes
 Operating Temperature Range: 0~40°C (32~104°F)
 Dimensions: 150 mm (L)×68 mm (dia)
 Net Weight: 250 grams
 Power Requirement: 4 pcs. size "AA" dry cell batteries

2. DESCRIPTION:



- | | |
|---|---|
| (1) Pyrotec body | (8) Rubber tube holder |
| (2) Clamping nut connecting
teflon tube | (9) On-Off switch with pilot
lamp |
| (3) Teflon U-tube | (10) Back plate |
| (4) Moisture control
primary tube | (11) Electrode board |
| (5) Filament protect cover | (12) Dry cell batteries |
| (6) Filament | (13) Rubber tube holder |
| (7) connector screw with
gas sampling pump | (14) Inlet clamping nut of
detector tube |
| | (15) Analyzer tube |

3. OPERATING PROCEDURE:

1. Installation of dry cell batteries :
 Unscrew the back plate Pyrotec Pyrolyzer and remove the plate and electrode board.
 Insert four (4) fresh dry cell batteries (size "AA") into the battery chamber ensuring the correct polarity.
 Replace the electrode board and back plate to the Pyrotec Pyrolyzer.
2. Connection of Pyrotec Pyrolyzer with Gas Sampling Pump : Remove the inlet clamping nut from the pump then connect the Pyrotec Pyrolyzer to sampling pump. Connect inlet clamping nut with rubber tube holder to the Pyrotec Pyrolyzer.
 After connecting the Pyrotec system, check leak-tight of the Pyrotec Pyrolyzer with sampling pump.
3. Put the power switch to ON. Confirm that the switch lamp will light. Wait 2 minutes for warming up the filament of the Pyrotec Pyrolyzer.
4. Connecton of detector tube and sampling procedure:
 - (1) Halogenated Hydrocarbon Tubes are consisted of a primary and an analyzer tubes. Break tips off the both tube ends.
 - (2) Connect the primary tube securely into the rubber inlet of the Pyrotec Pyrolyzer with the arrow on the tube pointing toward Pyrotec body. Also connect the analyzer tube to the rubber inlet of the sampling pump positioned on the center of the pyrotec Pyrolyzer with the arrow on the tube pointing toward the pump.
 - (3) Assemble the Teflon U-Tube with plastic hexagon screw and analyzer tube.
 - (4) Make certain the pump handle is all the way in. Align the guide marks on the handle and pump body.
 - (5) Pull the handle out desired stroke volume. Handle can be locked on either 1/2 pump stroke (50 cc). or 1 pump stroke (100 cc).
 - (6) To unlock the pump, turn the handle 1/4 turn in either direction.
 - (7) After sampling, remove the tubes from the Pyrotec Pyrolyzer and read concentration at the interface of the stained-to-unstained reagent.

(8) After sampling put the power switch to OFF. To remove the remaining gas in the Pyrotec Pyrolyzer, connect used tubes with it and take 4 pump strokes in the fresh air.

4. PRECAUTION

- (1) Note that the Pyrotec Pyrolyzer must be kept at cool and clean place for preservation of the performance. Do not keep at the place where the temperature will suddenly be changed. It will cause to damage the performance of the Pyrotec Pyrolyzer.
- (2) Put the power switch to OFF and confirm that the switch light is off after use the Pyrotec Pyrolyzer.
- (3) Battery life of the Pyrotec Pyrolyzer is 2 continuous hours. When the battery voltage is deteriorated, switch light of the Pyrotec Pyrolyzer will be OFF.
- (4) Life of filament of the Pyrotec Pyrolyzer is 1,000 times of 6,000 ppm R-113* sampling. When the life of filament comes, the filament will be short and pilot lamp of the Pyrotec Pyrolyzer will be OFF.
- (5) Prior to sampling, check the gas sampling pump to leak tight.
- (6) Do not disassemble the Pyrotec Pyrolyzer since it will cause the leakage from the airway of the system.

NOTE: R-113 is called Trichlorotrifluoroethane.

5. MAINTENANCE

When the switch of Pyrotec Pyrolyzer is on but does not light the pilot lamp of the switch, this must be the reason:

- (1) batteries are placed incorrect polarity
- (2) batteries were exhausted
- (3) filament was damaged
- (4) electric circuit was damaged.

If one of the aboves, replacement of part is needed. If not, contact with your supplier, distributor or manufacturer for repair immediately.

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