



**Chongqing TOP Oil Purifier Co.,LTD**

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## TP-4530Z Automatic Carbon Residue Analyzer



### Application

The instrument is designed and manufactured according to the requirements of the People's Republic of China GB/T 17144 "Measurement method for residual carbon in petroleum products (micro method)" and ASTM D4530 for the determination of carbon residue in petroleum products. The range of residual carbon measured by the instrument is: 0.10% (m/m) to 30.0% (m/m). The holding product of carbon residue exceeding 0.10% (m/m) is equivalent to the measurement result of Kang's carbon residue method (GB/T 268). This instrument is also suitable for petroleum products whose residual carbon value is less than 0.10% (m/m) and consists of distillate oil. However, 10% (V/V) distillation residue should be prepared by gb/6536 method first, and then used. This instrument is measured.

### Main Technical Indicators and Parameters

1. Power supply: AC220V  $\pm$ 10%、50Hz;
2. Instrument power consumption:  $\leq$ 1600W;
3. Coke box temperature: 500°C
4. Coke box size:  $\phi$ 85mm $\times$ 105mm (Diameter X Height)
5. Temperature control accuracy:  $\pm$ 2°C
6. Heating power: 1500W
7. Quantity of samples available: 12
8. Flow adjustment range: 100ml~1000ml/min; 150ml/min and 600 ml/min automatic switching.
9. Environment temperature: 5°C~35°C;

### Overview of Working Principle

The instrument adopts a single-chip control system to command the coordinated operation of each component according to a preset procedure. The machine can receive the balance data; it can automatically control the experiment process according to the standard requirements: the temperature is raised at a constant rate of 10 ° C ~ 15 ° C and finally the temperature is constant within the range of 500 ° C  $\pm$  2 ° C; Automatically adjust the flow of nitrogen as required; Automatically perform various actions according to the timing, and each step will have different sounds, prompting the user to progress the experiment. The instrument is designed as a full Chinese interface. At the bottom of each interface, there



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are current operation prompts. The user does not even need to read the manual. Just press the current prompt to test.

### System Composition

- (1) Main control board: Single-chip system, which controls the coordinated operation of all parts of the whole machine.
- (2) Temperature control system: control the temperature of the coke box, automatically increase at a constant speed according to the standard and finally constant in the range of  $(500 \pm 2) ^\circ\text{C}$ .
- (3) Nitrogen control system: Automatically adjust two different nitrogen flows according to standard requirements, 150ml/min or 600ml/min.
- (4) LCD: It is the interface of man-machine dialogue. All the information in the instrument communicates with the user through the display, providing the current working status of the instrument at any time, prompting the user to perform the current operation.

### Packing List

Serial number	Name	Specifications	Quantity	Remarks
1	Trace Charcoal Analyzer		1	
2	Test Tube	2ml	20	
3	Test Tube	4ml	20	
4	Test Tube Rack		1	
5	Test Tube Rack Hook		1	
6	Furnace Cover		1	
7	Waste Oil Collection Bottle		1	(including O-ring)
8	Gas Source Tube		2 Meters	
9	Nitrogen Decompression Table		1	