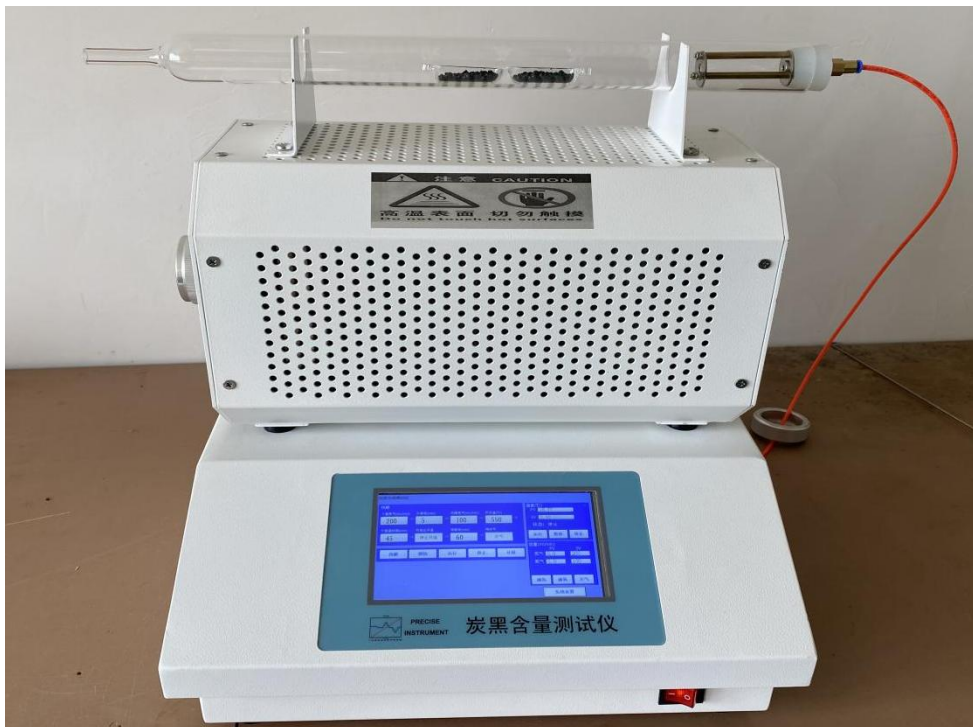


Carbon Black Content Tester TH-9001

Carbon black content tester is suitable for the determination of carbon black content in polyethylene, polypropylene, polybutylene plastics, cable and fiber optic cable insulation and sheath materials, rubber. It complies with the national standards GB/T 3515-2005, GB/T 13021-2019, GB/T 2951.41-2008, IEC60811-4-1:2004. a certain amount of samples will be pyrolyzed at high temperature in nitrogen flow, and the weight of carbon black and ash will be obtained by analyzing the weight of the pyrolyzed samples; it will be put into the heating furnace of the instrument again, and then calcined at high temperature with the passage of oxygen, and calculated to obtain the carbon black and ash content. Carbon black and ash content.



Main features

- Domestic exclusive use of digital gas flow meter control, automatic switching gas
- Unique dual temperature probe design for higher temperature accuracy (TH-9002)
- 7-inch microcomputer touch screen control, full automation, easy operation
- Experimental process, no need for supervision
- End of experiment, beeping reminder
- The diameter of the rubber discharge port can be up to 12mm, so there is no need to worry about clogging.
- Heating zone of 220 mm for simultaneous measurement of three samples
- Quartz tubes can be removed to accelerate cooling and reduce waiting time
- The instrument can communicate with computer via USB to realize remote monitoring.

Technical Parameters

temperature range	RT~1100℃	temperature fluctuation	±0.2℃
heating rate	0.1~40℃/min	Temperature resolution	0.01℃
gas pressure	0.2MPa	Temperature control method	Full automatic control
gas flow	0~300mL/min or 0~2000mL/min	Atmosphere control	Gas Mass Flow Meters
Display mode	24bit color, 7" touch screen	heating zone	Length 220mm
quartz tube	Length 440mm, Inner Diameter 32mm	quartz boat	Length 50mm or 75mm
Overall dimensions (w*d*h)	42*37*40cm	Net weight	25KG
Package size (w*d*h)	Wooden case 61*50*52	gross weight	41KG

Experimental procedure

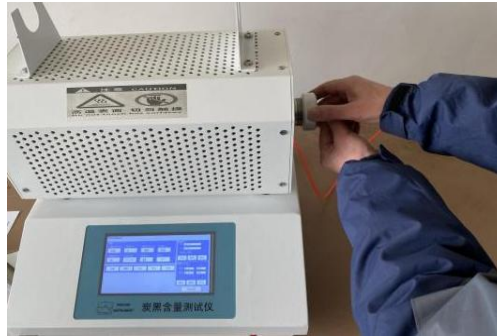
1. Pressure reducing valve connects nitrogen and oxygen cylinders and opens.
2. Put about 1 gram of sample into the center of the quartz tube



2. Plug the rubber plug with the air tube into the quartz tube.



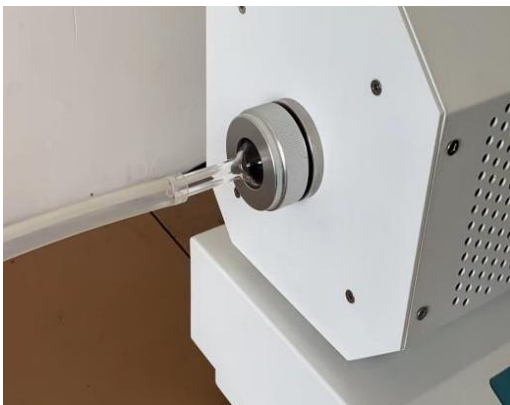
4. Stone the quartz tube into the furnace chamber and tighten the flange.



5. Connect the exhaust hose with the quartz tube.

6. End of pyrolysis or calcination, wait for the temperature to drop to about 200 degrees, take out the

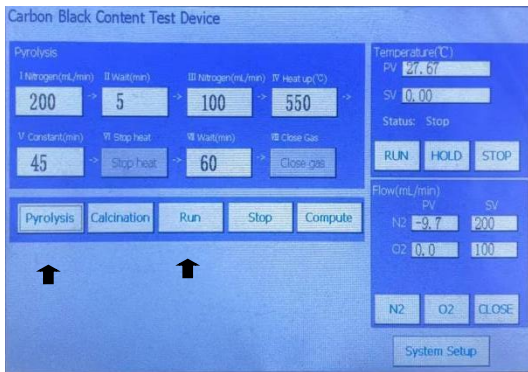
Quartz tubes are placed on a pallet to cool.
(Cooled and weighed at room temperature)



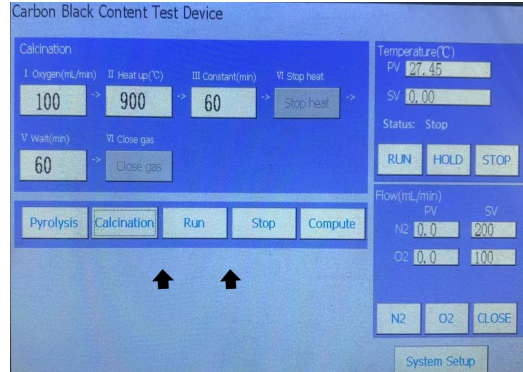
Flowchart of software operation (plastic pipes as an example)

The whole process of heating, waiting, ventilation and air exchange is automatically controlled without human intervention.

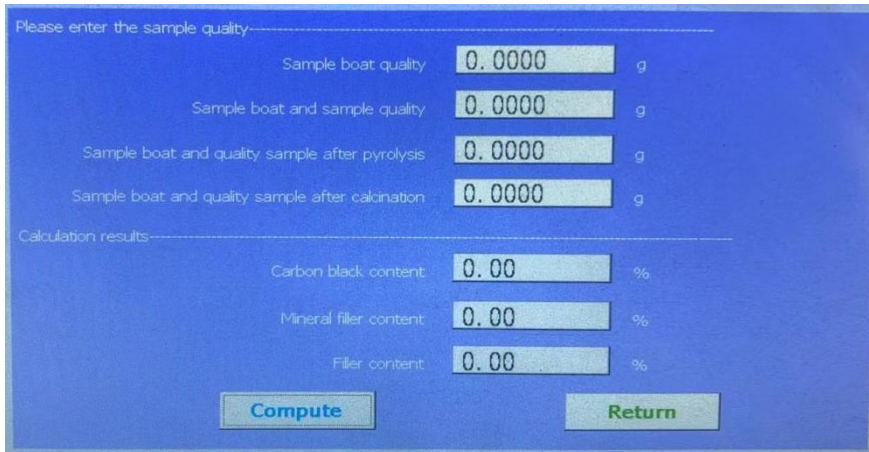
1. Pyrolysis



2. Calcination



3. Calculations



Carbon Black Content Tester Accessories

serial number	Name	quantities
1	Carbon Black Content Tester Heating Furnace and Main Chassis	1 unit
2	Carbon Black Content Tester Instruction	1 copy
3	power cable (of an appliance etc)	1 root
4	prototype boat	5 pieces
5	Glass tube fuse (10A)	4
6	Ventilation plastic tube (blue)	3 meters
7	Ventilation plastic tube (orange)	3 meters
8	certificate of conformity	1 copy



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9	Pressure Reducing Valve Fitting	2 pieces
10	air vent	4
11	Sample Hooks	1 handle
12	Sample boat catching spoon	1 handle
13	φ38 quartz tube	1 stick
14	exhaust hose	1.5 meters
15	stylus	1 stick
16	crucible tongs	1 handle