

Operation Instruction

Operation

1. Switch on heating power and power switch of infrared sulfur analyzer in sequence. Then turn on computer and printer.
2. Run analysis program and click Setting, check if parameters are in compliance with analysis requirements. Set high temperature furnace to 1300°C and thermostatic chamber to 50°C, it starts to heat.
3. Check if reagent used for drying is effective. If not, replace it immediately.
4. Turn on oxygen cylinder and adjust regulator to (0.25 ± 0.01) MPa. Switch on oxygen purging and vacuum pump. Adjust oxygen flow meter to (4.0 ± 0.1) L/min and pumping flow meter to (3.0 ± 0.1) L/min. Then turn off oxygen purging and vacuum pump.
5. Weigh samples. Each analysis sample is required to be (300 ± 10) mg, record sample mass and moisture content. Spray sample evenly on sample boat. Do not pile up samples in the same location.
6. After weighing all samples, click Start Analysis, it comes to operation menu. Click Add Samples, the first two samples defaults to waste samples. Then input mass, moisture and other related information about sample.
7. After high temperature furnace and thermostatic chamber heat to setup temperature (about 30 min) and keep it for over 1h, start the analysis.
8. When Ready indicator light on analysis interface turns green, Start button on front panel turns red and it

indicates "Ready", then samples can be analyzed.

9. Press Start or F4. When Start indicator light flashes rapidly or buzzes continuously, put sample boat (round head forward) loaded with coal sample on sliding door and push rear sample boat forward with sample puller into furnace until boat stopper position. After analysis, pull sample boat out with sample puller from furnace.
10. For more analysis of samples, repeat the above steps.
11. When all analysis samples are complete, set report format according to operator requirements. Print analysis data and click Exit.
12. Turn off oxygen cylinder and click Diagnostics on Function menu. Set high temp. furnace and thermostatic chamber to 0°C. Exit analysis program, then switch off printer and computer. When temperature in furnace drops below 0°C, turn off analyzer and main power switch.