

Pre-installation Checklist

Conditions for installation:

1. The ambient temperature: 5°C-35°C, and the relative humidity: $\leq 80\%$.
2. The laboratory should be free of violent vibration, airflow, strong electromagnetism and corrosive gases.
3. The test room should be a separate room. Do not do other tests in the same room.
4. Keep the room temperature as constant as possible with a temperature change of no more than 1 in each test. Keep the air-conditioner open all the time.
5. There should be no strong air convection indoors, nor strong heat source or fan. Do not open the door or windows during the test. The test room preferably faces north lest it should be exposed to sunshine.
6. Work surface: 700mm (W) \times 1800 mm(L) \times 600 mm(H) for one control part and 700mm (W) \times 2200 mm(L) \times 600 mm(H) for double control parts.
7. Equip the laboratory with stable power supply of 220V \pm 10%/50 \pm 1Hz (grounded well) and a power of no less

than 1.5 kW. Otherwise, provide UPS or regulated power supply with a superior performance (power ≥ 1000 W).

Preparation:

1. Prepare cooled oxygen (pressure: ≥ 5 MPa, purity: $> 99.5\%$). Do not use any electrolytic oxygen.
2. Please confirm connectors of the cylinder are consistent with Chinese standard (G5/8"-RHF) (the screw thread is on the outside) to make it match with the reducing valve the instrument equipped with, if not, please prepare the reducing valve (gauge for cylinder is 0-25MPa, gauge for outlet is 0-6MPa) by yourself.
3. At least 80kg distilled water for double control parts.
4. Two measuring vessels (10 ml), two cleaning bottles, two beakers (500 ml) and one pair of tweezers.
5. A electric balance with a resolution of 0.1 mg.
6. Two ordinary mercury thermometers.
7. Lens wiping paper: Measure the calorific before using, as the additives (Optional, used for coal samples of a high volatile content).
- 8) A bucket for washing the bomb.
- 9) One desicator.