

# Pre-installation Checklist

## Conditions for installation:

1. The ambient temperature:  $5\text{ }^{\circ}\text{C} - 35\text{ }^{\circ}\text{C}$ , 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:  $700\text{ mm(W)} \times 2500\text{ mm(L)}$  for single bucket or  $700\text{ mm(W)} \times 3000\text{ mm(L)}$  for double buckets. Or lay the calorimeter on the ground.
7. Equip the laboratory with stable power supply of  $220\text{ V} \pm 22\text{ V} / 50 \pm 1\text{ Hz}$  (grounded well). Otherwise, provide UPS

or regulated power supply with a superior performance (power  $\geq 1000$  W)

## Preparation:

1. Prepare cooled oxygen (pressure:  $\geq 5$  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 is equipped, if not, please prepare the reducing valve (guage for cylinder is 0-25MPa, guage for outlet is 0-6MPa) by yourself.
3. At least 50kg / 100 kg distilled water for one control part/ double control parts respectively.
4. Two measuring vessels (10 ml), two cleaning bottles, two beakers (500 ml), one pair of tweezers.
5. Aelectric 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 oxygen bomb.
9. one desicator.