## **Pre-installation Checklist**

## Conditions for installation:

- 1. The ambient temperature:5 35  $^\circ$ C, and the relative humidity:  $\leq$  80%.
- 2. The laboratory should be free of violent vibration, airflow, strong electromagnetism and corrosive gases.
- 3. Equip the laboratory with proper work surface: 700 mm(W)×2000 mm(L)×600 mm(H).
- 4. Equip the laboratory with stable power supply of 220 V ± 22 V / 50 ± 1 Hz (grounded well). Two groups of power supply in different phases: Controlling power ≥ 1 kW, and heating power ≤ 5 kW. Reserve locations for one air switch and one three-core socket (20 A,220 V).

## Preparation:

- 1. Prepare Magnesia (HG/T2573): A purity of industrial products, grinded into powder with the particle size<0.1mm.
- 2. Dextrin: A purity of chemical pure, 100 g/l solution for use.

No.172 Kaiyuan Road Changsha Economic & Technological Development Zone Changsha 410100, P. R. China www.ckic.net 3. Please prepare the substances as follows (you can select either one) for the experiment using reducibilityatmospherecondition:

(1) Carbon Substance: The ash content < 15%, industrial particle size <0.5mm graphite and active carbon (unnecessary in case of non-envelope carbon analysis)

(2) Hydrogen and Carbon Gas Cylinder or the Mixture Cylinder of Carbon Monoxide and Carbon Dioxide.

- 4. For the gas method, please confirm connectors of the cylinder are consistent withChinese 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 by yourself.
- 5.. Porcelain and glass: For the regulation, incineration and placement of ash pyramid.
- 6. Mortar: For grinding the samples.
- 7. Beaker: For preparing the dextrin solution.
- 8. Standard ash.

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