High Vacuum Experimental Electric Arc Furnace

Introduction of High Vacuum Experimental Electric Arc Furnace

High vacuum experimental electric arc furnace is mainly used for smelting high melting point metals/alloys, for smelting special steels, active and refractory metals such as titanium, molybdenum, and niobium, and for preparing bulk amorphous materials by vacuum suction casting.

Application Fields of High Vacuum Experimental Electric Arc Furnace

It is suitable for scientific research and small batch preparation of new materials for vacuum smelting in universities and research institutes.

Features of High Vacuum Experimental Electric Arc Furnace

The system is mainly composed of arc melting vacuum chamber, arc gun, arc melting power supply, five-station water-cooled copper crucible, turning manipulator, vacuum suction casting device, magnetic stirring, working gas circuit, system exhaust, vacuum measurement and electrical control system, installation machine Table and other parts. The device adopts a desktop structure and occupies a small space.

Technical parameters of high vacuum experimental electric arc furnace

1. Ultimate vacuum: 2.0x10-4Pa
2. System leak rate is less than 5.0x10-8Pa.l/S
3. The system pumps air from the atmosphere, and it can reach 5x10-3Pa in 20 minutes
4. Vacuum degree ≤ 6Pa after stopping the pump for 12 hours
5. One set of arc melting vacuum chamber assembly
6. Horizontal cylindrical vacuum chamber size: Φ350mmX350mm, front door, double-layer water-cooled structure, made of stainless steel, argon arc welding, surface electrochemical polishing, the interface is sealed with metal gaskets or fluororubber rings.

www.chinaequips.com
E-mail: Yalei.equips.com
Tel: +86 18173379676