0.5 kg low vacuum melting furnace

1 kg high vacuum melting furnace

1 kg high vacuum melting furnace-Plus

2 kg vacuum melting furnace with slag stripping

3 kg vacuum melting furnace with continuous feeding

10 kg vacuum melting furnace

25 kg vacuum melting furnace

50 kg vacuum melting furnace

100 kg vacuum melting furnace

100 kg semi-continuous vacuum furnace

100 kg semi-continuous vacuum furnace

Parameter

Parameter	Description			
Model	CDO-VIF-0.5	CDO-VIF-1	CDO-VIF-1-G	CDO-VIF-2
Max Capacity	0.5kg(iron)	1kg(iron)	1kg(iron)	2kg(iron)
Max Temperature	1800℃	1800℃	2100℃	1800℃
Power Supply	HF induction power supply	HF induction power supply	HF induction power supply	HF induction power supply
Oscillation frequency	30-80KHZ	30-80KHZ	30-80KHZ	30-80KHZ
Chamber Inner Dia	300mm	400/500mm	400/500mm	500mm
Power Supply	AC/3P/380V/50/60 Hz	AC/3P/380V/50/60 Hz	AC/3P/380V/50/60 Hz	AC/3P/380V/50/60Hz
Max Input Power	15KW	15/25KW	35KW	25KW
Heating Current	2-50A	2-50A	12-70A	2-50A
Cold Ultimate Vacuum	< 5X10 $^{-4}$Pa (Molecular pump）; 5 × 10^{-3} Pa (Diffusion pump)	< 5X10 $^{-4}$Pa (Molecular pump）; 5 × 10^{-3} Pa (Diffusion pump)	< 5X10 $^{-4}$Pa (Molecular pump）; 5 × 10^{-3} Pa (Diffusion pump)	< 5X10 $^{-4}$Pa (Molecular pump）; 5 × 10^{-3} Pa (Diffusion pump)
Chamber Filling Pressure	< 0.05MPa	< 0.05MPa	< 0.05MPa	< 0.05MPa
Pressure Rise Rate	<4Pa/h	<4Pa/h	<4Pa/h	<4Pa/h
Vacuum Pump	Molecular pump/diffusion pump	Molecular pump/diffusion pump	Molecular pump/diffusion pump	Molecular pump/diffusion pump
Control Accuracy	± 1 to 5 ° C	± 1 to 5 ° C	± 1 to 5 ° C	± 1 to 5 ° C

Parameter

Parameter	Description			
Model	CDO-VIF-3	CDO-VIF-5	CDO-VIF-10	CDO-VIF-25
Max Capacity	3kg(iron)	5kg(iron)	10kg(iron)	25kg(iron)
Max Temperature	1800°C	1700°C	1700°C	1700°C
Power Supply	MF induction power supply	MF induction power supply	MF induction power supply	MF induction power supply
Oscillation frequency	1-20KHZ	2KHZ	1-20KHZ	1-20KHZ
Chamber Inner Dia	500mm	600mm	750mm	800mm
Power Supply	AC/3P/380V/50/60Hz	AC/3P/380V/50/60Hz	AC/3P/380V/50/60Hz	AC/3P/380V/50/60Hz
Max Input Power	35KW	80KW	80KW	120-160KW
Heating Current	10-70A	134A	167A	201A
Cold Ultimate Vacuum	< 5X10 $^{-4}$Pa (molecular pump）; 5 × 10^{-3} Pa (Diffusion pump)	< 5X10 $^{-4}$Pa (molecular pump）; 5 × 10^{-3} Pa (Diffusion pump)	5 × 10^{-3} Pa (Diffusion pump)	8 × 10-3Pa (molecular pump)
Chamber Filling Pressure	< 0.05MPa	< 0.05MPa	< 0.05MPa	< 0.05MPa
Pressure Rise Rate	<4Pa/h	<4Pa/h	<4Pa/h	<4Pa/h
Vacuum Pump	Molecular pump/diffusion pump	Molecular pump/diffusion pump	Molecular pump/diffusion pump	Molecular pump/diffusion pump
Control Accuracy	±1 to 5 ° C	±1 to 5 ° C	±1 to 5 ° C	±1 to 5 ° C

Features

1. Laboratory Vacuum Induction Melting Furnace has fashionable appearance and compact structure, covering an area of less than 2 square meters

2. The vacuum furnace can be designed as a side door opening structure, which is convenient for taking and placing materials.

4. The furnace shell adopts double-layer water cooling structure, and the surface temperature does not exceed 40 ℃, which is more safe and reliable

5. An observation window is arranged on the furnace cover to facilitate the observation of material melting. Gas inlet and outlet are installed on the furnace body, and multiple KF interfaces are reserved to facilitate connection to other devices.

6. The electrode can rotate

7. Equipped with a secondary feeding device, other elements can be added in the smelting process to make various alloy materials

8. IGBT special power supply and all digital circuits are adopted. The electrical system is equipped with overcurrent, overvoltage feedback and protection circuit. The electric control panel box is made according to Siemens standard, with high temperature control accuracy and convenient operation.

9. Small vacuum melting furnace can adopt two-stage pump, that is, mechanical pump and molecular pump, and the vacuum degree can reach 8 × 10-4P

Application