

0.5 kg low vacuum melting furnace



1 kg high vacuum melting furnace



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



Parameter

Model	VIF-1	VIF-2	VIF-3	VIF-5	VIF-10	VIF-25
Voltage	380V, 3P, 50/60Hz					
Capacity(liquid iron)	1 KG	2 KG	3 KG	5 KG	10 KG	25 KG
Max temperature	1900°C	2000°C	1700°C	1700°C	1700°C	1700°C
Power supply	HF induction power supply			IF induction power supply		
Oscillation frequency	30-80KHZ	30-80KHZ	30-80KHZ	1-20KHZ	1-20KHZ	1-20KHZ
Max input power	15 KW	15 KW	35 KW	45 KW	60KW (can be changed according to material)	80KW (can be changed according to material)
Heating current	2~50A	2~52A	12~70A	15~95A	10~90A	20~130A
Cold ultimate vacuum	1 Pa	8×10^{-4} Pa	8×10^{-4} Pa	8×10^{-4} Pa	8×10^{-3} Pa	8×10^{-3} Pa
Cooling water	≥ 0.2 MPa ≥ 6 L/m				≥ 10 P(Change according to different requirements)	
Power supply weight	35KG	35KG	68KG	45KG	70KG	80KG

The parameters are for reference only, we can customize according to demand

50 kg vacuum melting furnace



100 kg vacuum melting furnace



100 kg semi-continuous vacuum furnace

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100 kg semi-continuous vacuum furnace



Parameter

Model	CDO-VIF500
Voltage	380V, 3P, 50/60Hz
Power	0-500 KW
Rated frequency	1500~2500HZ
Power frequency	50HZ
Capacity	0-500 KG
Effective Volume of crucible	0-8L
Cold ultimate vacuum	$6.7 \times 10^{-3}\text{Pa}$
Max temperature	1800°C
Pressure rise rate	$\leq 0.05\text{Pa/min}$
Pump down time	$\leq 15\text{min}$

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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 °C, 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 $8 \times 10^{-4}\text{P}$

Application

