

# 1-Ton Induction Furnace for Copper Melting

This induction melting furnace is designed for melting copper and copper alloys. It offers high melting efficiency, energy savings, and precise temperature control.



## Overview

### High-Efficiency Copper Melting Furnace

This 1-ton induction melting furnace is engineered specifically for copper and copper alloy processing. It features a robust steel frame and advanced water-cooled induction coil technology for reliable performance. Designed for industrial casting applications, it offers rapid melting times, high energy efficiency, and precise temperature control to ensure uniform metal composition.

## Technical Specifications

### Core Performance Metrics

<b>1 T</b> Rated Capacity	<b>600 KW</b> Rated Power	<b>1.2 T/H</b> Melting Rate	<b>50 Min/batch</b> Melting Time
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### Electrical Requirements

Parameter	Value
Power Input Voltage	380 V
MF Output Voltage	1500/2200 V
MF Frequency	0.6 KHZ
Transformer Capacity Required	750 KVA

## Performance & Efficiency

### Efficiency Data

- Electricity Consumption: 380 KWH/T
- Water Cooling Consumption: 12 T/H
- Operating Temperature: 1300 °C

## Safety & Operation

### Operational Advantages

- Constant power output for consistent melting
- Zero-voltage sweep-frequency start style
- Suitable for frequent start requirements
- Easy to operate for various casting processes

### Safety & Protection

Overcurrent Protection, Overvoltage Protection, Current-limiting Protection, Voltage-limiting Protection, Water-break Protection, Default Protection