

Muffle Furnace Manufacturers

Harrier Enterprises (<https://www.harriergroups.com/>) offers high-quality and high-temperature muffle furnaces and is available in the temperature ranges of 1000°C, 1200°C, 1400°C, 1700°C, and 1800°C, etc.

A **muffle furnace manufacturer** (<https://www.harriergroups.com/muffle-furnace/>) or electric muffle oven is extremely important equipment in a laboratory for all kinds of heat treatment experiments. A muffle furnace is very similar to a greenhouse and is used, mainly in chemistry laboratories, when there is a need for very high temperatures to 1800°C in the calcination of substances. The muffle furnace consists of a metallic chamber, its coating being composed of refractory material.

Types of Muffle Furnace (<https://www.harriergroups.com/muffle-furnace/>)



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[temperature-muffle-furnace/](https://www.harriergroups.com/high-temperature-muffle-furnace/))

High Temperature Furnace (<https://www.harriergroups.com/high-temperature-muffle-furnace/>)



(<https://www.harriergroups.com/muffle-furnace-1400-degree/>)

Muffle Furnace 1400°C (<https://www.harriergroups.com/muffle-furnace-1400-degree/>)



(<https://www.harriergroups.com/programmable-muffle-furnace/>)

Programmable Furnace (<https://www.harriergroups.com/programmable-muffle-furnace/>)

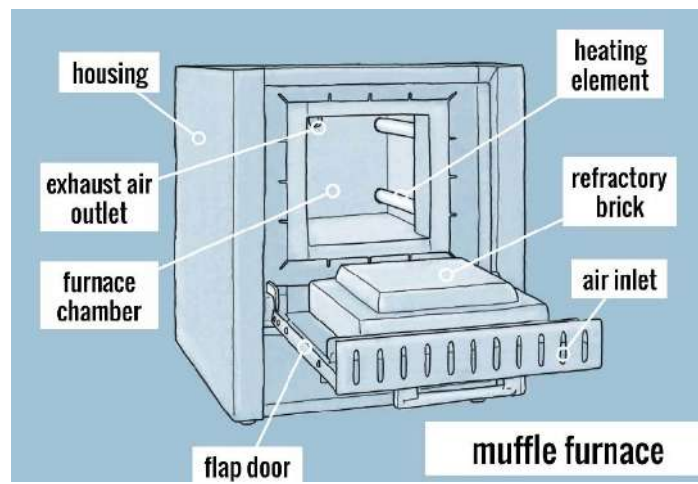
Harrier Enterprises is a top manufacturer of laboratory and industrial muffle furnace supplier, & manufacturers in India. With a decade of expertise in thermal engineering, the company offers a comprehensive selection of furnaces to customers worldwide. Evidence of their dedication to quality design, superior products, and affordability can be seen in the satisfaction of over 30 countries' customers.

Muffle Furnace Price in India

To get the most accurate **muffle furnace price**, it's advisable to request quotes from multiple suppliers and consider factors such as warranty and customer support. When considering a muffle furnace, it's crucial to understand the **muffle furnace hsn code**, muffle furnace cost and the factors that affect its price vary based on several factors, including size, temperature range, and additional features.

Muffle Furnace Use

- **Ashing and Burning:** Removing organic materials from samples for analysis.
- **Sintering:** Heating materials to a temperature just below their melting point to enhance their properties.
- **Fusing Glass:** Melting glass for creating intricate designs or for scientific applications.
- **Heat Treatment:** Hardening or tempering metals and alloys.



Muffle Furnace Diagram

For those interested in the technical aspects, a **diagram of muffle furnace** can provide valuable insights into its design and functionality. Typically, the **muffle furnace diagram** illustrates components such as the heating elements, control panel, insulation, and the muffle itself. This diagram helps in understanding how the furnace operates and how heat is distributed within the chamber.

Features:

- Muffle furnaces are used to produce various metal products, such as low-carbon steel, stainless steel, and copper.
- The stoves in these furnaces have an interior chamber for processing and housing for placing the materials.
- They are made from heat-resistant material with high thermal conductivity, which allows them to maintain the desired temperature inside the chamber.
- The combination of radiant and convection heat transfer provides a homogeneous treatment of the workpieces.
- It consists of a structure designed to retain and uniformly distribute heat in one place, so it is used to perform thermal processes on material samples.
- Most muffle furnaces have high efficiency, are cost-effective, and are easy to operate. It is helpful for a wide range of testing requirements in electronics, automotive engineering, and mechanical engineering.

Muffle Furnace for Laboratory (<https://www.harriergroups.com/muffle-furnace/>)



Muffle Furnace Image

Call Now
(tel:+91%209278334734)

Brand	Harrier Enterprises
Material Loading Capacity	600 Kg
Chamber Size (mm X mm X mm)	4 inch x 4 inch x 9 inch
Max Temperature (C)	1100 Deg C
Type of Model	Laboratory
Features	Digital Display
Power Source	Electric
Voltage	240 V
Power	5000 Watt
Minimum Order Quantity	1

Enquiry Now

Name *

Phone *

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What is a Muffle Furnace?

A muffle furnace is an industrial and laboratory device designed to heat materials to extremely high temperatures while isolating them from combustion byproducts and external contaminants. This isolation is achieved through a chamber that contains the material being heated, which is separated from the heat source, allowing for a controlled heating environment.

A muffle furnace is a specialized type of laboratory furnace designed to heat materials to high temperatures in a controlled environment. It is characterized by its insulated chamber, known as a muffle, which separates the heating elements from the material being processed. This design prevents contamination of the samples by combustion products, ensuring a clean heating process.

Muffle Furnace Principle

The muffle furnace operates by converting energy (usually electrical) into heat, which is then transferred to the workpiece. The chamber is typically lined with refractory materials to retain heat and prevent energy loss. Modern muffle furnaces utilize various heating methods, including conduction, convection, and radiation, to achieve temperatures often exceeding 1800°C. This high-temperature capability makes them suitable for processes such as smelting, casting, and heat treatment of metals and ceramics.

Applications

- **Metallurgy:** Used for heat treatment processes like annealing and hardening metals.
- **Ceramics and Glass:** Ideal for sintering and melting processes.
- **Biomedical:** Employed in the analysis of materials and drug testing.
- **Pharmaceuticals:** Used for ashing and quality control of samples.
- **Environmental Testing:** Analyzing ash content in materials and conducting water quality assessment.

Benefits

- **Energy Efficiency:** They are designed to minimize energy consumption while providing high-temperature capabilities.
- **Uniform Heat Distribution:** The design ensures consistent heating throughout the chamber, which is crucial for accurate results in experiments and manufacturing.
- **Durability:** Constructed from high-quality materials, muffle furnaces are built to withstand extreme conditions, ensuring a long service life.

Harrier Enterprises is a prominent manufacturer of muffle furnaces, offering a range of models with varying maximum temperatures and specifications tailored for laboratory and industrial applications. Choose Harrier Enterprises for your muffle furnace needs and experience unparalleled service and superior products that drive success in your applications.

1800 Degree Muffle Furnace



(<https://www.harriergroups.com/high-temperature-muffle-furnace/>)

High Temperature Muffle Furnace (Ambient to 1800°C) (<https://www.harriergroups.com/high-temperature-muffle-furnace/>)



(<https://www.harriergroups.com/programmable-muffle-furnace/>)

High Temperature Muffle Furnace (Ambient to 1500°C)
(<https://www.harriergroups.com/programmable-muffle-furnace/>)



(<https://www.harriergroups.com/muffle-furnace-1200-degree/>)

furnace-1200-degree/)

Muffle Furnace (Ambient to 1200°C) (<https://www.harriergroups.com/muffle-furnace-1200-degree/>)



(<https://www.harriergroups.com/split-tube-furnace-three-zone/>)

Three Zone Split Tube Furnace(1800°C/1400°C/1200°C) (<https://www.harriergroups.com/split-tube-furnace-three-zone/>)



(<https://www.harriergroups.com/muffle-furnace/>)

furnace/)

Muffle Furnace (<https://www.harriergroups.com/muffle-furnace/>)



(<https://www.harriergroups.com/hot-air-oven/>)

Hot Air Oven (Programmable) (<https://www.harriergroups.com/hot-air-oven/>)



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Fume Hood (<https://www.harriergroups.com/fume-hood/>)



(<https://www.harriergroups.com/vacuum-oven/>)

Vacuum Oven (<https://www.harriergroups.com/vacuum-oven/>)

ABOUT US



Harrier Enterprises is an Indian private firm that specialized in producing advanced conductive coating, TCOs, Nanotechnology, Environmental solutions and Solar Energy products. Since 2018, the company has been extending its reach worldwide.

QUICK LINKS

High Temperature Muffle Furnace (1800°C)

Two Zone High Temp. Tube Furnace 1700°C

Hot Air Oven (Programmable)

Hydrothermal Autoclave

Programmable Spin Coating Unit

Our Location

FIND US ON MAP



REACH US



Address

House No. 210, 1st Floor, Block-I, SDV Lakkarpur, Pole Factory, Faridabad, Haryana-121009, INDIA



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