

SINCE 1969

HOLY SCIENTIFIC

THE ULTIMATE SOLUTION FOR LAB INSTRUMENTS

MUFFLE FURNACE

INTRODUCTION:

HOLYSCIENTIFIC is one of the leading science equipment manufacturer & exporter of science equipments, science instruments, lab equipments, lab instruments, testing equipments, testing instruments, like Digital bio-safety cabinet, vertical & horizontal laminar air flow cooling & heating instruments like ultra low temperature deep freezers, BOD incubators, hot air oven, muffle furnace, microscope, fume hood environmental test chamber, water distillation plant, SDI kit, ocean grapy meter, water testing kit, PH meter, soil samplers & all types of laboratory & science instruments.

This laboratory & scientific instruments used for laboratory sterilization, clean room, microbiology, pathology, bio technology, pharmaceuticals, seed & soil testing, metallurgical, food processing, customized instruments

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WITH FAST SERVICE

LAB INSTRUMENTS

SCIENTIFIC INSTRUMENTS

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SCOPE:

Many experiments and procedures taken in the lab are requiring the extreme heat environment. For this purpose, the high temperature muffle furnace steps in as the necessary part of laboratory equipment. RASAYAN providing the muffle furnace at a affordable cost. The sizes of the muffle furnace are various from the smaller furnaces which are conveniently placed on a workbench, to the larger ones that has a coveted capacity and competent for all duties.

APPLICATION:

Our furnace are usually heated for achieve desired temperature by conduction convection or upper body radiation from electrical heating elements. Therefore there is no combustion involved in the temperature controlled in the system which allows much greater control of temperature uniformity & assure isolation of the material being heated from the by product from the fuel combustion

CONSTRUCTION:

Rasayan muffle furnace is double walled convection heated unit. Outer body of the unit are made of heavy gauge CRC sheet duly pretreated with primers rust free well finished powder coated. The inner chamber made of special design ceramic material. The gap between both chambers filled with high density sera wool for super fast heating & reduces heat loss & power consumption.



- Reliable
- High density sera wool insulation.
- MICRO-PROCESSOR BASED CONTROLLERS
- Aesthetically designed
- Energy efficient

USEFUL FOR BIOMEDICAL, PATHOLOGY, MICROBIOLOGY, PHARMACEUTICALS, FOOD PROCESSING ETC.



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- Precise control of environmental parameters
- Corrosion resistant interior & exteriors
- Sturdy construction
- Low maintenance.

Heating:

Indirect heating system provided in our units compressing of air heater made of heavy gauge A-1 grade nicrom wire of suitable wattage (silicon carbide rod heating also available at optional.)

Front panel:

Front panel of our unit comprise of ON/OFF switch, temperature controller, main cord, heater indication lamp etc.

Features:

- Microprocessor based four digit seven segment Dual digital display type PID controller for accurate temperature controlling.
- Dual display upper display shows actual temperature & lower display shows set point
- High density sera wool insulation permits faster heat up, reducing heat loss & energy consumption
- Embedded heating element on top, bottom and both sides improves temperature uniformity
- Side opening door doubles as a shelf for loading and unloading
- Door safety switch stops power to heating elements when door is opened. (Optional)
- Thermocouple break protection cuts power to heating elements, preventing a thermocouple failure runaway condition
- 0.95 cm (0.38 in) diameter port in chamber rear for monitoring temperatures with independent measuring devices
- Includes: Thermocouple, line cord and plug

Alarm:

Audio visual alarm facility when process complete at optional

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MUFFLE FURNACE

RASAYAN

Temperature Control / Range:

Temperature Range: +5°C from ambient to 1000°C or 1100°C or 1200°C (with Nicrom wire)
Up to 1400°C (with silicon carbide rod)
+5°C from ambient to 1600°C (with Nicrom wire)

Temperature Sensitivity: +/- 2° c or better.

Optional:

PPI PID based programmable controller with original sensor Temperature Accuracy: < 0.5 °C: -Rate: 5800/- nett extra

Images shown in the catalog is for reference only due to the continuous gradation original unit may be differ from it

MFG.BY

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