



Muffle Furnace



DESCRIPTION & SPECIFICATION

Furnace type

Working chamber dimension.

Insulation Type

Casing

Type and number of Heating Elements

Maximum temperature Continuous temperature Furnace KW rating

No. of control zone

Number and location of the thermocouples

Type of temperature control

: CHAMBER TYPE FURNACE .

: 125mm W X125mm H X150mm D

: High-quality fiber material for furnace Chamber, selected for the high working temperature. Fiber Boards of Various grades like 1600,1400,1200

of MMTCL

Non-rust Textured Stainless sheet steel casing.

Double-walled casing for low external

temperatures and high stability GLP & GMP

compliant

: Number of Heating Element – 6nos MoSi2,Dia:

4/9mm

: 1650deg C

: 1600deg C.

: 3.5 KW(Approx)

: One

: One number of "R" Type thermocouple will be

provided in the furnace. : PID based Microprocessor temperature controller with clear LCD display with datainput by numeric pad.

will have facility for 9Programs with 40 Steps each; Temperature & time value entry insteps of 1°C &1 minute respectively; Status messages not as codes

but as clear texts. With features start time

configurable; Operating hour counter; auto tune

function; Temperature variable as °C & °F; kWh meter;

Real time clock; Skip-button for segment jump.





Safety features	 :- Excess temperature protection. :- Limit switch to cut off heaters while opening door. :- Earthling terminal to avoid electrical current leakage. :- Fuse Unit / Circuit breaker to cut off the supply in case of circuit faults.
Skin Temp.	:- 30-40DegC
Voltage	:230 volts +/- 10%, 50 Hz, +/- 5%, 1-phase supply.

>>> 3.1 Furnace casing:-

The furnace casing will be fabricated from SS sheet of suitable thickness and will be polised for superior finish from outside. The furnace will have a suitable vent at the back / top for exhaust. Non-rust Textured Stainless sheet steel casing. Double-walled casing for low external temperatures and high stability GLP & GMP compliant

>>> 3.2 Insulation:-

The Hot Face insulation of the furnace has been done with the help of Fiber Boards of suitable grades viz. FB-1700,FB-1600, FB-1400, FB-1200 from MMTCL. These insulation will give the furnace good thermal efficiency.

>>> 3.3 Heating Element:-

The furnace will be provided with MoSi2 1700 -4/9 Heating Elements. These elements are dense cermet material consisting of Molybdenum Disilicide and a protective oxide outer component. Long life of these elements even in oxidizing atmosphere and the ease of replacement of failed elements contributes to high degree of utilization of High Temperature furnaces as well as low maintenance costs. Since there is no decay of used elements, new elements can be easily connected in series with old elements. Suitable transformer will be provided to feed proper voltage to the elements. We have proposed air cooled type transformer with class H insulation.

>>> 3.4 Temperature control system:-

Our furnace will be provided with single zone automatic Temperature control system consisting of following equipment.

- One Automatic Programmable PID type Temperature Indicating Controller Make:
- One Safety Controller.
- One 'R' type thermocouple.
- ▶ Thyristor for power control is provided.

>>> 3.5 Electricals:-

The furnace will be provided with one no. Instrument cum Control panel. The panel will house all the temperature control instruments as stated above as well as switch gear components for supply power to heating elements. There will be one step down transformer, thyristor, Temp. controller, and other reputed(Like L&T or Seimens) switch gear item.

HPLC Servicing, Validation, Trainings and Preventive Maintenance:

:We have team of service engineers who can attend to any make of HPLC **HPLC Servicing**

promptly @the most affordable cost.

:We also take up preventive Maintenace to reduce downtime of HPLC's **Trainings**

AMC's/CMC :We offer user training both in-House and at customer sites on HPLC

principles, operations, troubleshooting.

:We have protocols for carrying out periodic Validations as per GLP/GMP/U **Validations**

SFDA norms

Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.





About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO: 9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

About Analytical Technologies



Fully Automated

NOVA Basic Semi -Auto Chemistry Analyzer

PCR/Gradient PCR/ **RTPCR**

Blood Gas Analyzer



Random access Analyzer for immunoassay Proteins & clinical chemistry



Corporate Social Responsibility



Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:

- 1.Research & Innovation Scientist's awards / QC Professional Award: Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org
- 2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.
- 3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @





HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Company reserves rights to add/delete/modify the contents / technical specificationsof the catalogue without prior