

Technical Specification for Digital Muffle Furnace

- Laboratory benchtop
- Maximum temperature up to 1100 °C, and it can be use full for continues working temperature up to 1000 °C or better
- Heating from two sides from heating elements.
- Heating rate: 0-15⁰c/min.
- Digital advanced PID based-temperature control
- Maintenance-friendly replacement of heating elements and insulation
- Insulation made of non-classified fibre material
- Housing made of sheets of textured stainless steel
- Housing coated in RAL grade colour
- Dual shell housing made of textured stainless steel
- Lifting door
- Exhaust air outlet in rear wall
- Solid state relays provide for low-noise operation
- Controller should be mounted under the door
- Door safety switch
- Safety interlock system, power shuts off when furnace door open, over temperature and sensor broken
- Effective Insulation: Equipped with advanced insulation, the furnace prevents heat from escaping, thereby conserving energy and maintaining a stable internal temperature.
- The design of the Muffle Furnace prioritizes safety, reducing the risk of work injuries by keeping high temperatures contained
- Program entry in steps of 1 °C or 1 min.
- Inner Dimension in mm should be a minimum of (w x d x h) : 220 x 300 x 220
- Volume : 14 Ltr minimum or better
- Connected load should be below 3.5 Kw
- Weight of instrument should be below 40 kg
- Temperature should reach within 30 minutes to 1100 °C
- Membrane waterproof polycarbonate soft touch keypad compliance to UL/ROHS
- NABL certified calibration certificate

- CE certification
- Furnace safety should be assured
- Power Input: 230 V $\pm$ 10 % Single Phase, 50/60 Hz AC

Specific conditions

1. 5 years Warranty for the whole equipment.
2. Comprehensive maintenance contract -5 year with preventive maintenance kits
3. IQ/OQ/PQ Documentation
4. Demonstration of all specifications and sample analysis.
5. Analysis support through application specialist free of cost. Analysis of our samples should be demonstrated during training.
6. Complete System installation, hands-on and in-depth training on the operation and maintenance of the system.
7. Provision for upgrading existing instrument specifications whenever applicable.
8. Good Service and Technical support are essential.
9. Capacity of the instrument should be demonstrated and the lab personnel should be trained.
10. Specifications should be confirmed from the technical Brochure and website of the manufacturer.
11. Catalogue / Brochure of the Model Quoted along with a detailed description of the essential technical and performance characteristics of the goods being offered, with an item by-item commentary on the indented technical specification and documentary evidence of conformity of the

goods and services to the bidding documents demonstrating substantial responsiveness of the goods being offered.

12. Installation, calibration, standardization and commissioning shall be the responsibility of the vendor.

13. Pre-installation requirements, including requirement for water/power supply, should be enclosed along with the tender.

14. The vendor should provide warranty conditions and delivery schedule.