



## DIGIQUAL SYSTEMS

144/1, Ramakrishna Avenue Easwaran Koil street,  
Madipakkam, Chennai-600 091. TN, INDIA.  
Line1: 044-22582122, Line2: 044-22582314

Mobile: 9677299582 / 9444346180 . GST: 33AAAFD5073E1ZX

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### 1. DIGIQUAL ELECTRIC MUFFLE FURNACE 900 \* C :- ( Laboratory Model )

Digiqual Muffle Furnace comprises of an Outer chamber fabricated out of thick cold rolled mild steel sheets, Rectangular in shape placed horizontally with opening in the front. Refractory Muffle of required size forms the inner chamber. This is surrounded by ceramic fibre blankets on all the four sides and the rear to reduce heat losses to a minimum.

The chamber is provided with a single door with 100mm thick ceramic fibre insulation mounted on heavy duty hinges and provided with latch. The furnace is heated by Kanthal A1 heating coils wound in spiral form on the muffle embedded in high grade refractory cement and backed by ceramic fibre blankets.

The temperature inside is maintained at any desired level within the operating range by a Digital Automatic Temperature Indicator-cum- controller working in conjunction with a Cr/Al thermocouple housed in the hot zone.

Control panel : Consists of temperature controller, Air break magnetic contactor, indicating lamps, isolator. The furnace is finished in attractive powder coat finish.

#### Technical Specification

Operating Temp	:	Ambient 5 – 850 °C
Max. Temperature	:	900 °C.
Temp Accuracy	:	1 % of Set Temperature
Power supply	:	230 volts AC, Single phase.





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## 2. DIGIQUAL GROOVED MUFFLE FURNACE 1100 \* C :- ( Laboratory Model )

Digiqual High Temperature Muffle furnace is Double walled chamber inner made of 4 nos. siliminite refractory slabs and outer made of cold rolled mild steel sheets finished in powder coating. Insulation by Ceramic fibre blankets to minimize radiation heat loss. Double walled insulated door mounted on heavy-duty hinges is provided with effective locking arrangements.

For High Temperature Muffle furnace Heating elements will be Kanthal A1 coils suspended in the grooves of the refractory. Temperature is maintained and controlled by Digital temperature controller working in conjunction with Cr/Al thermocouple placed in the hot zone. Supplied complete with control panel. We Supply High Temperature Muffle Furnace in Complete Satisfaction to User.

### Technical Specification

Operating Temperature	:	Ambient 5* C to 1100 °C.
Max. Temperature	:	1150 °C.
Temp Accuracy	:	1 % of Set Temperature
Power supply	:	230 volts AC, Single phase

### Inner Chamber size

### Power Rating kw

5" x 5" x 10"	2.5 Kw
6" x 6" x 12"	3.0 Kw
8" x 8" x 12"	4.0 Kw
12" x 12" x 12"	5.0 Kw



- Digiqual -

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### 3. DIGIQUAL HIGH TEMP MUFFLE FURNACE 1400 \* C :- ( Laboratory Model )

Digiqual 1400 \* Muffle Furnace construction comprises of double walled chamber, outer made of cold rolled mild steel sheets and finished in powder coating paint. inner chamber formed by High temperature withstand zirconia vacuum board followed by ceramic fibre blankets on all the sides. double walled door mounted on heavy-duty hinges in the front is provided with effective locking arrangements. optionally, the door can be provided with door limit switch to cut off the power supply whenever the door is opened and to restart when the door is closed.

The 1400 \* C Muffle Furnace will be heated by means of HIGH QUALITY SILICON CARBIDE RODS. Temperature is maintained and controlled by Digital PID temperature controller with SSR output. Alternatively a Microprocessor based PID Controller auto tuned with Thyristor control Device working in conjunction with Pt/Pt/Rh 13% Thermocouple.

1400 \* C Muffle Furnace Control Panel:

- compact control panel accommodating the following will be provided along with the furnace:
- PID/Programmable Controller
- Pilot Indicating Lights
- SSR
- Thyristor Power Control Device
- Voltmeter & Ammeter
- Main Isolating switch



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### Technical specification

Continuous operating Temperature	:	1350°C
Maximum Temperature	:	1400°C
Temp.Accuracy	:	±1%
Operating Voltage	:	230 volts single Phase 50 cys

### Inner Chamber size

### Power Rating kw

100 × 100 × 225 mm	6.0 Kw
125 × 125 × 250 mm	6.0 Kw
150 × 150 × 300mm	6.0 Kw
200 × 200 × 300 mm	8.0 Kw 3 phase
300 × 300 × 300 mm	9.0 Kw 3 phase

