



## **Muffle Furnace**

Light weight with ceramic wool insulation (instead of Brick insulation). The outer casting is made of double walled thick PCRC sheet, duly painted with attractive stove enamel. Heating elements are made of Kanthal A-1 wire and backed by high temperature cerwool insulation, which avoids loss of energy. The temperature control unit consists of Energy regulator, fitted in front of the furnace with two pilot lamps. The apparatus is complete with one pyrometer, thermocouple, silver thermal fuse, and main lead with power plug. To work on 220/230Volts AC or 400/440 Volts AC.

### **Temperature :**

Maximum	Temperature	:
1000/1200/1400/1500		°C
Working	Temperature	:
900/1150/1300/1450		°C

### **Sizes:**

100mm x 100mm x 225mm 1.5kw  
 125mm x 125mm x 250mm 2.0kw  
 150mm x 150mm x 300mm 3.0kw  
 125mm x 175mm x 475mm 4.0kw  
 175mm x 175mm x 475mm 4.5kw  
 200mm x 200mm x 300mm 5.0kw

**Note : Larger sizes can be made against order.**

Optional Accessories :

- Blind controller
- Microprocessor based PID controller.
- Thermal chart recorder.

<b>Temperature Control</b>	-	-
Temperature variation (time)	+/-Â°C	0.5
Temperature deviation (spatial)	+/-Â°C	0.5
Readability/ Set ability	Â°C	0.5
Temperature range ***	Â°C	5Â°C to 60Â°C
SensorÂ thermocouple	-	Type K
Controller	-	Solid State digital Controller/PID
optional		
Display	-	LED/LCD
Adjustable alarm limits (visual and acoustic)	-	Optional
<b>Safety thermostats</b>	-	-
Temperature variation (time)	+/-Â°C	3 (With PID Controllers
only)		
Sensor thermocouple	-	Type K
Automatic setting	-	Yes (With PID Controllers
only)		
Adjustable limits	-	Yes (With PID Controllers
only)		
<b>Light control</b>	-	-
Readability/ Set ability	%	7% (optional feature)
Light intensity in the middle	Lux	As Desired (optional
feature)		
Light intensity in both sides	Lux	As Desired (optional
feature)		
<b>Accessories</b>	-	-
Automatic de-icing system	RS232	Optional
Timer (1-999 minutes or hours	-	Optional
Real Time Program )	-	Optional

Printer Report Program	-	Optional
Serial Data Port	-	Optional
Inspection window in door	-	Optional
<b>Shelves</b>	-	-
Standard/ max size	-	2-6(depending on the internal size)
Dimensions w,d model	mm	As per the individual model
Max load per shelf	Kg	20
Permitted total load (Size)	Kg	80 kg (Max Internal Size)
<b>Accessories</b>	-	-
Printer Report Program	-	Optional
2 x 24 characters LCD Display	-	Optional
Access Port 30 mm	-	Optional
Inspection window in door with cover	-	Optional
Castors, lockable	-	Yes
<b>Power consumption</b>	-	-
Nominal power	W	950
Nominal voltage	V	230, 1~
Frequency	HZ	50/60

**Extra Charges**

**TEMPERATURE MAPPING AND REPORTING AIDS**

**Universal Digital Data Recorder with Computer**





- Accepts Process Data on 2-wire serial port (RS-485) from Multiple Devices (Like process Indicators, Controllers, Scanners etc.)
- Formatted Recording of process Value, Alarm status, and Step-in value with Time, Calendar and date.
- User Programmable Recording Interval from 0 - 250 Minutes (0- pause).
- Continuous for Time Slot ( Hours/ Minutes) recording Modes.
- Facility to view elapsed Time in Time Slot Recording Modes.
- Smart Cable for Direct Interface to 80/132 Column Dot matrix Printer. Online Printing available.
- Huge data storage capacity With Guaranteed data Retention Life of Greater than 10 years in absence of Power.
- Facility to view number of Stored records, Free records and record storage capacity.
- Well formatted Printout of recorded data with comprehensive Header.
- Facility for Page - wise printing with Auto Page numbering and user settable top margin, bottom margin and page Length.
- Automatic Page adjustment to ensure that No record is split on two pages while printing.
- Facility to print Process value alarm conditions with underline.
- Two in-built Independent alarms. Alarm-1 for record management and on-printer/ communication Error. Alarm-2, RTC based, for time bound operations.
- User selectable Baud rate for serial communication.
- PC connectivity
- Front panel smart connector for easy data transfer to Data Carrier . No key operations required.

#### Data Carrier, Data Recorder And PC Software

**Data Carrier-** Zero powered. Pocket Size Device-facilitates extraction of stored records for transportation to remote data reader.

**Data Recorder** - A Sleek, Table Top Device - is provided with one input and two output ports. The inputs port reads data from the attached data carrier. The Printer port facilitates direct hard copy record of the data from data carrier on 80/132 column Dot Matrix printer. The PC communication port (RS 232 C) facilitates downloading data from data carrier to PC.



**PC Software-** A user friendly PC software package reviews and analyze data and enable you to generate records and plot graphs in a variety of ways.

## LABPRO INTERNATIONAL

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*Registration Certificate*

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Carried out at following site:

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for their

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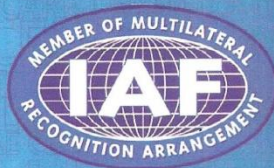
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**MANUFACTURING & SUPPLY OF SCIENTIFIC &  
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REGISTRATION NO. : CCPL/QMS/E1005  
ISSUED ON : 01/01/2011  
VALIDITY DATE : 31/12/2013  
SUBJECT TO SUCCESSFUL SURVEILLANCE ASSESSMENT

A handwritten signature in black ink, appearing to read "M. Asif".

AUTHORISED BY  
CHAIRMAN / DIRECTOR



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