

MUFFLE FURNACE



MODEL NO. - ACM-82301



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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.

TECHNICAL SPECIFICATIONS

Working Temperature	900/1150/1400/1600°C
Size	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

OPTIONAL ACCESSORIES

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

OPTIONAL SPECIFICATION

Temperature Control	-	-
Temperature Variation (time)	±°C	0.5
Temperature Deviation (Spatial)	±°C	0.5
Readability / Set ability	°C	0.5
Temperature range***	°C	50°c above ambient to 900/1150/1400/1600°C
Sensor Thermocouple		Type K
Controller		Solid State digital Controller/PID optional
Display		LED/LCD
Adjustable alarm limits (visual and acoustic)		Optional
Safety thermostats	-	-
Temperature variation (time)	±C	3 (With PID Controllers only)
Sensors Thermocouple		Type K
Automatic setting		Yes (With PID Controllers only)
Adjustable limits		Yes (With PID Controllers only)
Light control	-	-
Readability or Set ability	%	7% (Optional Feature)
Light intensity (Middle chamber)	Lux	As Desired (Optional Feature)
Light intensity	Lux	As
Accessories	-	-
Automatic De-icing system	RS232	Optional
Timer (1-999 minutes of hours)	-	Optional
Real Time Program	-	Optional
Printer Report Program	-	Optional
Serial Data Port	-	Optional
Inspection window in door	-	Optional
Shelves	-	-
Standard /max	-	2-6(depending on the internal size)
Dimension w,d	mm	As per the individual model
Max load per shelf	kg	20 kg
Permitted total load	kg	80 kg (Max Internal Size)
Accessories	-	-
Printer Report Program	-	Optional
2 x 24 characters LCD Display	-	Optional
Access Port 30 mm	-	Optional



OPTIONAL SPECIFICATION

Access Port 30 mm	-	Optional
Inspection window in door with cover	-	Optional
Castors, lockable	-	Yes
Power Consumption	-	-
Nominal Power	W	950
Nominal Voltage	V	230, 1~
Frequency	HZ	50 / 60

FEATURES

- 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 analyzes data and enables you to generate records and plot graphs in a variety of ways.



An ISO 9001 : 2208 | ISO 14001 : 2008 | ISO 13485
WHO: GMP Products | GLP Compliant Products

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