

ISO 9001-2015,WHO, FDA,  
European CE Nortified &  
ISO-13485 Certified



**ALPHA<sup>R</sup>**  
SUDARSHAN

**CE**  
European CE  
Nortified



ASE-148 & 149

#### ASE-148 Muffle Furnace Rectangular ALPHA<sup>TM</sup>

Light weight with creamic fibre wool insulation. The outer & inner casing is made of double walled thick Stainless Steel sheet, reattached with thick perforated sheet on the bottom portion. Heating elements are made of Silicon Carbide and backed by high temperature wool insulation, which avoids loss of energy. Temperature control unit consists of Energy Regulator, fitter in front of furnace with two pilot lamps. The apparatus is complete with thermocouple, silver thermal fuse, main lead with power plug. To work on 220/230 volts or 400/440 volts A.C. Temperature Control Through microprocessor Based PID controller Digital with double display with an accrucy of  $\pm 1^{\circ}\text{C}$ . This marking does not indicate temperature. It indicates control level i.e. at Position '100' maximum electricity is allowed to flow to Furnace. Maximum Temp. is  $550^{\circ}\text{C}$  and Working Temp.  $500^{\circ}\text{C}$ . For model of higher temperature the maximum temp. is  $950^{\circ}\text{C}$  and working temp  $900^{\circ}\text{C}$ . Complete with long wire & three pin socket. **Other changes will be done on request or as per user specification.**

Muffle Size (W x D x H)	Rating (Working $500^{\circ}\text{C}$ )	Rating Working $950^{\circ}\text{C}$	WORKING $900^{\circ}\text{C}$
(a) 100x100x225mm.	1.5	3.0	
(b) 125x125x225mm.	2.0	4.0	
(c) 125x125x300 mm.	2.5	5.0	
(d) 150x150x300mm.	3.5	7.0	
(e) 200x200x300mm.	5.0	10.0	
(f) 300x300x300mm	5.0	10.0	
(g) 175x175x475mm.	5.0	10.0	

#### OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller in lieu of Energy Regulator.
- (b) Digital Temperature Indicator-cum-Controller.

#### ASE-149 Muffle Furnace (Industrial Grooved Type) ALPHA<sup>TM</sup>

Light weight with ceramic fibre wool insulation (instead of Brick Insulation). The outer casing is made of double walled thick P.C.R.C. Sheet, reattached with thick perforated sheet on the bottom portion, painted with attractive stove enamel. Heating elements are made of KANTHAL "A-1" wire and inside chamber is made of GROOVED REFRACTORY for supporting the heating elements on four sides and backed by high temperature cerwool insulation, which avoids loss of energy. Temperature control unit consists of Energy Regulator, fitted in front of furnace with two pilot lamps. The apparatus is complete with power plug. TO work in 220.230 volts or 400/440 volts A.C. The energy regulator dial is arbitrarily marked 0-100 position, This marking does not indicate temperature. In indicates control level i.e., at Position '100' maximum electricity is allowed to flow to Furnace. At Position 'O' minimum electricity is allowed to flow to Furnace. At Position 'O' minimum electricity is allowed flow to Furnace. The unit has a working temperature of  $100^{\circ}\text{C}$  with maximum upto  $1200^{\circ}\text{C}$ . and working temp  $1100^{\circ}\text{C}$  or  $1150^{\circ}\text{C}$  Complete with long wire & three pin socket. **Other changes can be done on request or as per user specification..**

MUFFLE SIZE (W x D x H)	RATING	WORKING $1100^{\circ}\text{C}$	WORKING $1150^{\circ}\text{C}$
(a) 125x125x300mm.	4.0 KW		
(b) 150x150x150mm.	4.5 KW		
(c) 200x200x300mm.	6.0 KW		
(d) 300x300x300mm.	10.0 KW		

#### OPTIONAL ACCESSORIES

- (a) Solid State Electronic Blind Controller
- (b) Digital Temperature Indicator-cum-Controller.

**Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018**

**CE, ISO 9001:2015, WHO, FDA & ISO-13485 CERTIFIED**  
**With first prize awarded at Haroti Udyog Mela year 2003**

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Nortified



**ASE-148**

### **ASE-148 Muffle Furnace Rectangular** ALPHA<sup>R</sup>

Double Walled with double insulation for minimum heat leakage & faster temp. System is ideal use for baking glass wares or any other material, organic and inorganic samples. Light weight with ceramic fibre wool insulation (instead of Brick Insulation). Heating from two sides by ceramic heating plates to avoid fumes and splashing. Furnace chamber made of textured stainless steel with multilayer ceramic insulation with fiber plates. Dual shell to have low external temperature. A high quality ceramic insulation between ceramic chamber and outer body. Heating elements are made of KANTHAL "A-1" wire and inside chamber is made of GROOVED REFRACTORY for supporting the heating elements on four sides and backed by high temperature cerwool insulation, which avoids loss of energy. Microprocessor controlled for maintaining temperature, include device for auto cut-off with time set option and alarm signals, fitted in front of furnace with two pilot lamps. It provision of exhaust outlet in rear wall. Low noise operation, The apparatus is complete with power plug. Include chimney with fan and installed at the site. Include heat-resistant gloves to work at higher temperature beyond 500 °C. TO work in 220.230 volts single phase A.C. Opening door flap type as working platform. The unit has a working temperature of 100°C with maximum upto 1100°C. and working temp 1100°C Complete with long wire & three pin socket. Chamber capacity approx. 14-15 Litre. With compatible stabilizer. **Other changes can be done on request or as per user specification.**

#### **OPTIONAL ACCESSORIES**

- (a) Solid State Electronic Blind Controller in lieu of Energy Regulator.
- (b) Digital Temperature Indicator-cum-Controller.
- (c) Dilution Process System.
- (d) Cyclone Process System.
- (e) Cyclone cum Scrubbing unit.
- (f) Scrubbing unit.
- (g) Chimney (per running feet) (Does not include any masonry or civil work and foundation laying etc.

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