

# Small Form Ashing Muffle Furnace (+1100°C)

## **LABEC Small Form Ashing Muffle Furnaces**

are a light-weight, compact solution for laboratories where space is limited. These universal furnaces are designed for ashing and burn-off processes up to 1100°C.

These furnaces are constructed of powder-coated steel exteriors with a one-piece high thermal efficiency vacuum formed ceramic fibre chamber, with heating elements embedded within four sides.

The furnaces feature a fan-assisted chimney mounted to the rear of the unit to extract smoke and humidity during processing.

The fan allows for continuous air exchange within the chamber at the rate of 0.8 cbm per hour at 600°C and 0.6 cbm per hour at 1100°C.



All models feature a lift up safety door with safety cut-off when the door is opened during operation, and a ceramic bottom plate. Microprocessor temperature control provides good stability and uniformity, and the low thermal mass construction ensures fast heating times and low power consumption.

### **Additional options**

To suit your requirements the addition of a process observation window, additional hearth plates, buzzer, data recorder and RS232/RS-485/USB interface are also available.

Serving the Scientific, Medical and Research industries since 1945

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## SPECIFICATIONS

# Small Form Ashing Muffle Furnace (+1100°C)

Model	SF-3-SD-1038	SF-8-SD-1038	SF-13-SD-1038	SF-22-SD-1038	SF-39-SD-1038
Capacity (litres)	3	8.2	13	22	39
Int. Dim. (mm) WxDxH	125 x 200 x 115	200 x 300 x 133	225 x 360 x 180	275 x 500 x 155	315 x 515 x 225
Ext. Dim. (mm) WxDxH	340 x 470 x 430	440 x 560 x 510	500 x 700 x 550	600 x 890 x 610	648 x 899 x 739
Temp. Controller	Digital PID Controller				
Temp. Min.	+300°C				
Temp. Max	+1100°C				
Temp. Stability	±1°C				
Temp. Uniformity	±10°C				
Air Exchange	0.8 cbm per hour at 600°C, 0.6 cbm per hour at 1100°C				
Interior Material	Ceramic Fibre Muffle				
Exterior Material	Powder Coat Steel				
Options	Observation window (Ø35mm), Additional ceramic hearth plates, Buzzer, Data Recorder, RS232/RS-485/USB interface				
Safety Features	Over temperature protection cut off, earth leakage breaker (ELB).				
Max Heating Time	35 min	50 minutes			
Power Supply	240v / 50Hz				415V Three Phase
Power (W)	1700W/10AMP	1800W/10AMPS	1800W/10AMPS	3000W/15AMPS	7200W 10AMPS/phase
Weight (kg)	18	28	38	58	74

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