

Technotes

Highlighting technical features

Thermo Scientific Thermolyne Muffle Furnace

Key Features

- Fast heat up and outstanding energy efficiency
- Six sizes available, ranging from 1.3 L to 45 L
- Ideal choice for research applications
- CE certified

Why choose a Thermolyne muffle furnace for your lab?

Thermo Scientific™ Thermolyne™ muffle furnaces offer heating solutions for a number of application needs. From general laboratory use to industrial applications, Thermolyne furnaces are ideal for fast heat up and temperature control up to 1200°C.



Muffle furnaces are used by:


- Waste water treatment plants
- Industrial plants
- Pharmaceutical companies
- Environmental labs
- Agriculture labs
- Paper manufacturers
- Cosmetic labs

Typical applications:

- Ashing of organic or inorganic samples
- Heat treatment
- Determination of volatiles
- Chemical analysis
- Material testing

Thermo
SCIENTIFIC

Find the right Thermolyne™ muffle furnace for your lab

-  **Thermolyne Small Benchtop Muffle Furnaces:** Entry level model – temperatures up to 1100°C
- Thermolyne Benchtop Muffle Furnaces:** Great for general lab use – temperatures up to 1200°C
- Thermolyne Premium Large Muffle Furnaces:** Robust design for industrial applications – temperatures up to 1100°C
- Thermolyne Largest Tabletop Muffle Furnaces:** Accommodates larger samples – temperatures up to 1093°C
- Thermolyne Atmosphere Controlled Ashing Furnaces:** Ideal for coal and coke ashing – temperatures up to 975°C

Specifications and Ordering Information										
Cat.No.	Model Name	Capacity	Temp. Range	Temp. Stability/Uniformity at 1000°C	Interior D x W x H	Exterior L x W x H	Control*	Electrical	Shipping Weight	
10215522	Small Benchtop	1.3 L 0.04 cu.ft.	100° to 1100°C	±0.3°C ±7.8°C	12.7 x 10.3 x 9.8 cm 5 x 4 x 3.8 in.	33 x 23 x 36 cm 13 x 9 x 14 in.	A1	240 V, 50/60 Hz 1060 w, 4.4 A	9 kg 20 lb.	
10453152	Small Benchtop	2.1 L 0.07 cu.ft.	100° to 1100°C	±0.5°C ±5.0°C	15.2 x 12.7 x 10.8 cm 6 x 5 x 4.25 in.	40 x 25 x 37 cm 15.8 x 10 x 14.5 in.	A1	240 V, 50/60 Hz 1520 w, 6.3 A	12.7 kg 28 lb.	
10728344	Benchtop	2 L 0.07 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C ±5.0°C	15.2 x 12.7 x 10.2 cm 6 x 5 x 4 in.	39 x 28.5 x 47 cm 15.5 x 11.3 x 18.5 in.	A1	240 V, 50/60 Hz 1000 w, 4.2 A	18.5 kg 41 lb.	
10654323	Benchtop	2 L 0.07 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C ±5.0°C	15.2 x 12.7 x 10.2 cm 6 x 5 x 4 in.	39 x 28.5 x 47 cm 15.5 x 11.3 x 18.5 in.	B1	240 V, 50/60 Hz 1000 w, 4.2 A	18.5 kg 41 lb.	
10664513	Benchtop	2 L 0.07 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C ±5.0°C	15.2 x 12.7 x 10.2 cm 6 x 5 x 4 in.	39 x 28.5 x 47 cm 15.5 x 11.3 x 18.5 in.	C1	240 V, 50/60 Hz 1000 w, 4.2 A	18.5 kg 41 lb.	
10674513	Benchtop	2 L 0.07 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C ±5.0°C	15.2 x 12.7 x 10.2 cm 6 x 5 x 4 in.	39 x 28.5 x 47 cm 15.5 x 11.3 x 18.5 in.	D1	240 V, 50/60 Hz 1000 w, 4.2 A	18.5 kg 41 lb.	
10509722	Benchtop	5.8 L 0.2 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C ±4.0°C	25 x 18 x 13 cm 10 x 7 x 5 in.	50 x 34 x 19 cm 19.5 x 13.3 x 49 in.	A1	240 V, 50/60 Hz 1560 w, 6.5 A	27.2 kg 60 lb.	
10768534	Benchtop	5.8 L 0.2 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C 4.0°C	25 x 18 x 13 cm 10 x 7 x 5 in.	50 x 34 x 19 cm 19.5 x 13.3 x 49 in.	B1	240 V, 50/60 Hz 1560 w, 6.5 A	27.2 kg 60 lb.	
10493532	Benchtop	5.8 L 0.2 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C ±4.0°C	25 x 18 x 13 cm 10 x 7 x 5 in.	50 x 34 x 19 cm 19.5 x 13.3 x 49 in.	C1	240 V, 50/60 Hz 1800 w, 6.5 A	27.2 kg 60 lb.	
10684703	Benchtop	5.8 L 0.2 cu.ft.	100° to 1200°C 212° to 2192°F	±0.5°C ±4.0°C	25 x 18 x 13 cm 10 x 7 x 5 in.	50 x 34 x 19 cm 19.5 x 13.3 x 49 in.	D1	240 V, 50/60 Hz 1800 w, 6.5 A	27.2 kg 60 lb.	
11597304	Premium Large	14 L 0.5 cu.ft.	100° to 1200°C 212° to 2192°F	±1.5°C ±4.5°C	25 x 33 x 18 cm 10 x 12.8 x 6.8 in.	51 x 48.5 x 53.3 cm 20.1 x 19.1 x 21 in.	B1	240 V, 50/60 Hz 18.3 A, 4400 w	60.8 kg 134 lb.	
12431892	Premium Large	14 L 0.5 cu.ft.	100° to 1200°C 212° to 2192°F	±1.5°C ±4.5°C	25 x 33 x 18 cm 10 x 12.8 x 6.8 in.	51 x 48.5 x 53.3 cm 20.1 x 19.1 x 21 in.	C1	240 V, 50/60 Hz 18.3 A, 4400 w	60.8 kg 134 lb.	
12441892	Premium Large	14 L 0.5 cu.ft.	100° to 1200°C 212° to 2192°F	±1.5°C ±4.5°C	25 x 33 x 18 cm 10 x 12.8 x 6.8 in.	51 x 48.5 x 53.3 cm 20.1 x 19.1 x 21 in.	D1	240 V, 50/60 Hz 18.3 A, 4400 w	60.8 kg 134 lb.	
11840730	Largest Tabletop	45 L 1.6 cu.ft.	100° to 1093°C	±1.2°C ±3.5°C	36 x 36 x 36 cm 14 x 14 x 14 in.	64.7x54.6x74.9 cm 25.5x21.5x29.5 in.	B1	240 V, 50/60 Hz 22.9 A, 5500 w	117.9 kg 260 lb.	
11830730	Largest Tabletop	45 L 1.6 cu. ft.	100° to 1093°C	±1.2°C ±3.5°C	36 x 36 x 36 cm 14 x 14 x 14 in.	64.7x54.6x74.9 cm 25.5x21.5x29.5 in.	C1	240 V, 50/60 Hz 22.9 A, 5500 w	117.9 kg 260 lb.	
11766359	Largest Tabletop	45 L 1.6 cu.ft.	100° to 1093°C	±1.2°C ±3.5°C	36 x 36 x 36 cm 14 x 14 x 14 in.	64.7x54.6x74.9 cm 25.5x21.5x29.5 in.	D1	240 V, 50/60 Hz 22.9 A, 5500 w	117.9 kg 260 lb.	
10091692	Atmosphere Cntrl. Ashing Furnace	14 L 0.5 cu.ft.	100° to 975°C	depends on airflow	25 x 33 x 18 cm 10 x 12.8 x 6.8 in.	51 x 49 x 53 cm 20 x 19.1 x 21 in.	B1	240 V, 50/60 Hz 18.3 A, 4400 w	60.8 kg 134 lb.	
10403732	Atmosphere Cntrl. Ashing Furnace	14 L 0.5 cu.ft.	100° to 975°C	depends on airflow	25 x 33 x 18 cm 10 x 12.8 x 6.8 in.	51 x 49 x 53 cm 20 x 19.1 x 21 in.	C1	240 V, 50/60 Hz 18.3 A, 4400 w	60.8 kg 134 lb.	
10386482	Atmosphere Cntrl. Ashing Furnace	14 L 0.5 cu.ft.	100° to 975°C	depends on airflow	25 x 33 x 18 cm 10 x 12.8 x 6.8 in.	51 x 49 x 53 cm 20 x 19.1 x 21 in.	D1	240 V, 50/60 Hz 18.3 A, 4400 w	60.8 kg 134 lb.	
11800750	Atmosphere Cntrl. Ashing Furnace	45 L 1.6 cu.ft.	100° to 975°C	depends on airflow	36 x 36 x 36 cm 14 x 14 x 14 in.	65 x 55 x 75 cm 25.5 x 21.5 x 29.5 in.	C1	240 V, 50/60 Hz 22.9 A, 5500 w	117.9 kg 260 lb.	
11830750	Atmosphere Cntrl. Ashing Furnace	45 L 1.6 cu.ft.	100° to 975°C	depends on airflow	36 x 36 x 36 cm 14 x 14 x 14 in.	65 x 55 x 75 cm 25.5 x 21.5 x 29.5 in.	D1	240V , 50/60 Hz 22.9 A, 5500 w	117.9 kg 260 lb.	

*Control
 A1 – Digital single setpoint control.
 B1 – Digital single setpoint control with single ramp to set point and a dwell; includes mechanical over temperature protection.
 C1 – Digital programmable control with one stored program of 8 segments; includes mechanical over temperature protection.
 D1 – Digital programmable control with 4 stored programs, 16 segments per program; includes RS232 communications and mechanical over temperature protection.



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