



## Thermo Scientific Lindberg Blue M Ovens

Superior performance  
and accuracy for your most  
demanding applications



advanced performance, innovative  
functionality and superior accuracy

## Thermo Scientific Lindberg Blue M Ovens



The new Thermo Scientific Lindberg Blue M ovens series delivers the advanced performance, innovative functionality and superior accuracy required for a host of demanding applications – from chemical and pharmaceutical, to electronics and automotive.

Our Lindberg Blue M family includes a complete range of gravity and mechanical convection ovens for your industrial heating and drying process requirements.

LINDBERG BLUE M

*Visible indicator lights  
provide instant notification*



*Digital display with intuitive  
menu options deliver superior  
temperature control*

## The Global Leader in Quality and Reliability

For more than 50 years, Thermo Scientific products have been trusted by the world's leading biotechnology, pharmaceutical, academic, industrial and clinical laboratories. Our solutions deliver the performance, quality and reliability required by researchers and clinicians worldwide.

### **Lindberg® Blue M® Deluxe Ovens**

*Sophisticated design,  
programmable controls* *pg. 2-3*

### **Lindberg Blue M Performance Ovens**

*Mechanical convection for  
fast, efficient heating* *pg. 5-6*

*Gravity convection for  
gentle, uniform drying* *pg. 7-8*



# Thermo Scientific Lindberg Blue M Deluxe Ovens



## Advanced Programmable Controls

Featuring programmable controls and sophisticated functionality, our Lindberg Blue M deluxe ovens are ideal for demanding drying and heating processes that require temperature sequences and exceptional accuracy with a temperature range from 50°C to 325°C.

### Applications:

High-Temperature  
Drying and Heating

Temperature Programs

Fast Drying Processes

Quality Control

Aging Processes

Materials Testing

### Precise Heating with Mechanical Convection

Mechanical convection provides uniform heating, precise temperature control and fast drying using a blower that circulates heated air in a horizontal airflow pattern.

### Excellent Temperature Stability and Recovery

- Temperature uniformity at 200°C equal to  $\pm 2^\circ\text{C}$ <sup>1</sup>
- Excellent recovery time of 1.5 to 2.5 minutes (depending on size)<sup>2</sup>
- High rate of air changes per hour for fast removal of humidity

<sup>1</sup> average value performed at ASTM E 145

<sup>2</sup> door open 1 minute at 200°C

### Advanced Programmable Controls

Programmable microprocessor controls feature detailed settings, intuitive menu, visible indicator lights and automatic restart. Set temperature ramps according to defined process specs with up to 12 ramp and 12 soak periods.

### Safety and Protection

Alarm indicator warns of over temperature and built-in safety backup keeps temperature at 5°C above set-point if the primary control fails.

Efficient wall and door insulation maintain safe exterior temperature on outer door and handle to prevent burns while saving energy.

Fiberglass gasket with stainless-steel mesh core prevents heat loss to ensure energy efficiency. A circuit breaker protects the oven from power surges.

# Blue M Deluxe Ovens

## Robust, Reliable Construction

Enamel-painted steel exterior and corrosion-resistant stainless-steel interior ensure easy cleaning and durability. Doors open 180° for unhindered access.

Non-slip rubber feet offer exceptional stability and low-density heating elements ensure long life.

## Three Convenient Sizes

- 2.5 cu. ft. (71L) holds five adjustable shelves (two included\*)
- 3.75 cu. ft. (106L) holds eight adjustable shelves (two included\*)
- 5.0 cu. ft. (142L) holds 11 adjustable shelves (four included\*)

(\*Additional shelves are sold separately)



Chamber Volume	cu.ft./liters	2.5 / 71	3.75 / 106	5 / 142
Convection		Mechanical	Mechanical	Mechanical
Temperature	Range Uniformity @200°C Sensitivity	50°C to 325°C ±2°C ±0.25°C	50°C to 325°C ±2°C ±0.25°C	50°C to 325°C ±2°C ±0.25°C
Recovery Time	Minutes (Door open 1 minute at 200°C)	1.5	1.5	2.5
Air Changes	Max (per hour)	61	41	31
Dimensions D x W x H in (cm)	Chamber	18 x 18 x 13.5 (46 x 46 x 34)	18 x 18 x 20 (46 x 46 x 51)	18 x 18 x 26.5 (46 x 46 x 67)
	Exterior	23.5 x 25.8 x 26 (60 x 65 x 66)	23.5 x 25.8 x 33 (60 x 65 x 84)	23.5 x 25.8 x 39.3 (60 x 65 x 100)
Electrical Specs	Volts Watt / Amp	120 1800 / 15	240 (60 Hz) 3300 / 14	240 (60 Hz) 3300 / 14
BTU Output		2650	3380	3950
Shelves	Supplied / Max*	2 / 5	2 / 8	4 / 11
Shipping Weight	lb (kg)	115 (52)	130 (59)	145 (66)
Shipping Dimensions (domestic)	L x W x H in. (cm)	30 x 31.5 x 34 (76 x 80 x 86)	30 x 31.5 x 41 (76 x 80 x 104)	30 x 31.5 x 47 (76 x 80 x 119)
Catalog Number		LB305745M	LB305750M	LB305760M

\* Additional shelves for all Lindberg Blue M models can be ordered — Catalog Number **13247S**. All units come with a 24 month warranty (parts and labor) and are UL and cUL approved.

# Thermo Scientific Lindberg Blue M Performance Ovens



## *Mechanical Convection for Fast, Efficient Drying and Heating*

Our Lindberg Blue M performance ovens with mechanical convection are ideal for demanding drying and heating processes that require quick and uniform heating with a temperature range from 50°C to 275°C .

### *Applications:*

*Fast-Drying Processes*

*Quality Control*

*Aging Processes*

*Moisture Testing*

*Baking*

*Materials Testing*

### **Fast Drying and Heating, Excellent Temperature Recovery**

Mechanical convection provides uniform heating, precise temperature control and fast drying using a blower that circulates heated air in a horizontal airflow pattern.

- Temperature Uniformity at 200°C as good as  $\pm 3^{\circ}\text{C}$  <sup>1</sup>
- Great recovery time of 1 to 2.5 minutes (depending on chamber size) <sup>2</sup>

<sup>1</sup> average value performed at ASTM E 145

<sup>2</sup> door open 1 minute at 200°C

### **Advanced Microprocessor Controls**

An easy-to-use microprocessor control panel displays detailed information on current temperature, set-point, heater condition and over temperature alarm.

Setting the oven temperature is simple with no tuning required and settings are stored in memory when oven is off.

### **Safety and Protection**

Built-in safety backup maintains temperature control at 5°C above setpoint if the primary control fails. A circuit breaker protects the oven from power surges.

Efficient wall and door insulation maintain safe exterior temperature to prevent burns while saving energy.

Silicone gasket on the oven door prevents heat loss and ensures energy efficiency. Doors open 180° for unhindered access.

# Blue M Performance Ovens

## Robust, Reliable Construction

Enamel-painted steel exterior and corrosion-resistant stainless-steel interior ensure easy cleaning and durability. Low-density heating elements ensure long life.

## Three Convenient Sizes

- 2.5 cu. ft. (71L) holds five adjustable shelves (two included\*)
- 3.75 cu. ft. (106L) holds eight adjustable shelves (two included\*)
- 5.0 cu. ft. (142L) holds 11 adjustable shelves (four included\*)

(\*Additional shelves are sold separately)



Chamber Volume	cu.ft./liters	2.5 / 71	3.75 / 106	5 / 142
Convection		Mechanical	Mechanical	Mechanical
Temperature	Range Uniformity @200°C Sensitivity	50°C to 275°C ±3°C ±0.5°C	50°C to 275°C ±3°C ±0.5°C	50°C to 275°C ±3°C ±0.5°C
Recovery Time	Minutes (Door open 1 minute at 200°C)	2	2	2.5
Air Changes	Max (per hour)	43	29	22
Dimensions D x W x H in (cm)	Chamber	18 x 18 x 13.5 (46 x 46 x 34)	18 x 18 x 20 (46 x 46 x 51)	18 x 18 x 26.5 (46 x 46 x 67)
	Exterior	23.5 x 25.8 x 26 (60 x 65 x 66)	23.5 x 25.8 x 33 (60 x 65 x 84)	23.5 x 25.8 x 39.3 (60 x 65 x 100)
Electrical Specs	Volts Watt / Amp	120 1300 / 11	120 1800 / 15	120 1800 / 15
BTU Output		2750	2925	3095
Shelves	Supplied / Max*	2 / 5	2 / 8	4 / 11
Shipping Weight	lb (kg)	120 (54)	127 (58)	135 (61)
Shipping Dimensions (domestic)	L x W x H in. (cm)	30 x 31.5 x 34 (76 x 80 x 86)	30 x 31.5 x 41 (76 x 80 x 104)	30 x 31.5 x 47 (76 x 80 x 119)
Catalog Numbers		LB305645M	LB305655M	LB305665M

\* Additional shelves for all Lindberg Blue M models can be ordered — Catalog Number **13247S**.  
All units come with a 24 month warranty (parts and labor) and are UL and cUL approved.

# Thermo Scientific Lindberg Blue M Performance Ovens



## *Gravity Convection for Gentle Heating and Drying*

Featuring gravity convection and precise controls, our Lindberg Blue M performance ovens are ideal for gentle heating and drying applications requiring minimal air turbulences and temperatures from 50°C to 275°C.

### *Applications:*

*Aging Processes*

*Quality Control*

*Baking*

*Gentle Drying*

*Electronic Parts Drying*

*Powder Drying*

*Granulates Drying*

### **Uniform Drying and Heating**

Gentle drying with gravity convection that moves air vertically through the oven chamber to heat samples.

### **Advanced Microprocessor Controls**

An easy-to-read microprocessor control panel displays detailed information on current temperature, set-point, heater condition and over temperature alarm.

Setting the oven temperature in 1°C increments is simple with no tuning required. Settings are stored in memory when oven is off.

### **Safety and Protection**

Built-in safety backup maintains temperature control at 5°C above setpoint if the primary control fails. A circuit breaker protects the oven from power surges.

Efficient wall and door insulation maintain safe exterior temperature to prevent burns while saving energy.

Silicone gasket on the oven door prevents heat loss and ensures energy efficiency. Doors open 180° for unhindered access.

### **Robust, Reliable Construction**

Enamel-painted steel exterior and corrosion-resistant stainless-steel interior ensure easy cleaning and durability. Low-density heating elements ensure long life.

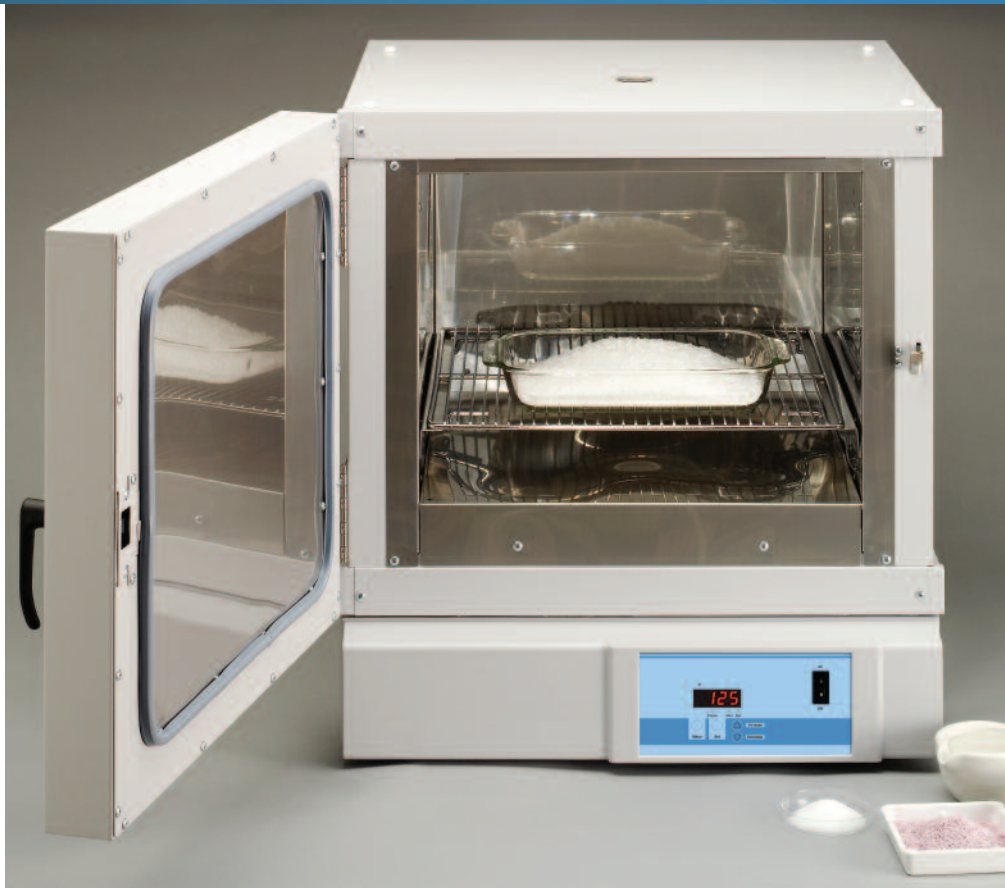


# Blue M Performance Ovens

## Three Convenient Sizes

- 2.5 cu. ft. (71L) holds five adjustable shelves (two included\*)
- 3.75 cu. ft. (106L) holds eight adjustable shelves (two included\*)
- 5.0 cu. ft. (142L) holds 11 adjustable shelves (four included\*)

(\*Additional shelves are sold separately)



Chamber Volume	cu.ft./liters	2.5 / 71	3.75 / 106	5 / 142
Convection		Gravity	Gravity	Gravity
Temperature	Range Uniformity @200°C Sensitivity	50°C to 275°C ±4°C ±0.5°C	50°C to 275°C ±4°C ±0.5°C	50°C to 275°C ±4°C ±0.5°C
Recovery Time	Minutes (Door open 1 minute at 200°C)	2	3	4
Air Changes	Max (per hour)	24	16	12
Dimensions D x W x H in (cm)	Chamber	18 x 18 x 13.5 (46 x 46 x 34)	18 x 18 x 20 (46 x 46 x 51)	18 x 18 x 26.5 (46 x 46 x 67)
	Exterior	23.5 x 25.8 x 26 (60 x 65 x 66)	23.5 x 25.8 x 33 (60 x 65 x 84)	23.5 x 25.8 x 39.3 (60 x 65 x 100)
Electrical Specs	Volts Watt / Amp	120 1300 / 11	120 1800 / 15	120 1800 / 15
BTU Output		1325	2025	2140
Shelves	Supplied / Max*	2 / 5	2 / 8	4 / 11
Shipping Weight	lb (kg)	115 (52)	130 (59)	145 (66)
Shipping Dimensions (domestic)	L x W x H in. (cm)	30 x 31.5 x 34 (76 x 80 x 86)	30 x 31.5 x 41 (76 x 80 x 104)	30 x 31.5 x 47 (76 x 80 x 119)
Catalog Number		LB305545G	LB305555G	LB305565G

\* Additional shelves for all Lindberg Blue M models can be ordered — Catalog Number **13247S**.  
All units come with a 24 month warranty (parts and labor) and are UL and cUL approved.



**North America:** USA/Canada +1 866 984 3766

**Europe:** Austria +43 1 801 40 0, Belgium +32 2 482 30 30, France +33 2 2803 2000, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 02 95059 434-254, Netherlands +31 76 571 4440, Nordic countries +358 9 329 100, Russia/CIS +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

**Asia:** China +86 21 6865 4588 or +86 10 8419 3588, India +91 22 6716 2200, Japan +81 45 453 9220, Other Asian countries +852 2885 4613

**Countries not listed:** +49 6184 90 6940 or +33 2 2803 2000

[www.thermo.com/ovens](http://www.thermo.com/ovens)

© 2008 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

BRO--LBMOVENS-1008

**Thermo**  
SCIENTIFIC