



# Natural Convection Ovens

*Designed and manufactured in Australia by  
Thermoline*

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# Proudly Family- Owned and Operated

Today, we remain a proud second-  
generation family business



A family  
owned  
Australian  
business



# Natural Convection Ovens

Designed and Manufactured by **Thermoline**

The Thermoline natural convection laboratory ovens are a type of laboratory oven that uses natural air currents to circulate heated air within the oven chamber. This type of oven does not use any fans to circulate the air. The natural convection laboratory ovens operate through the natural convection process, which relies on the movement of air caused by the difference in density between the heated and unheated air.

Thermoline has two natural convection lab ovens, both designed and manufactured in Australia. These models are economical and very easy to use, making them an ideal choice for applications where air flow may be disruptive to delicate samples or powders.

"This product is Proudly Australian Made."

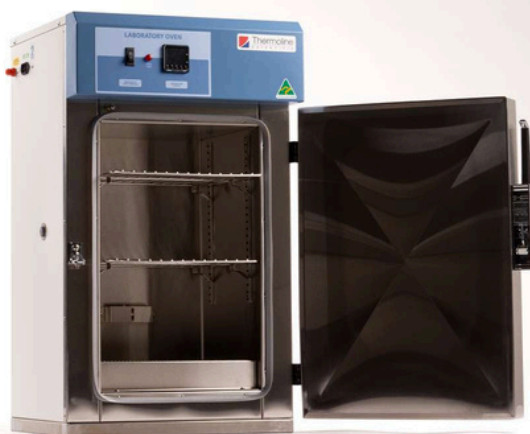
Thermoline have been manufacturing and distributing high quality laboratory and scientific testing equipment since 1970. Over this time, Thermoline has grown to be a leading brand in the science industry.



"Built to last using the best materials."

Thermoline uses the best materials that are able to withstand prolonged use and maintain their structural integrity. Materials such as Galvanised Steel, Aluminium, Zinc and Stainless Steel are commonly used in products that are subject to wear and tear. Benefits of these materials include:

- **Corrosion resistance.**
- **Lightweight.**
- **High load stress resistance.**
- **Low Maintenance.**



**Our difference is  
in our commitment**

For over 50 Years we have provided industry leading equipment and service



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"Providing the new industry standard since 1970."

Since 1970, Thermoline lab equipment has been the proven industry standard. Our products appear in thousands of labs across the country and have been trusted for all general or critical research applications.

# 2

## 2 Year Warranty!

Thermoline offers a comprehensive two years parts and labour warranty on all Australian Made products.



- **Australian Made:**

This range is designed and manufactured by Thermoline. We proudly promote and support the Australian Made logo.
- **Proven Reliability:**

With Thermoline's long standing track record of consistent performance through the use of durable materials and rigorous testing, you can trust in our products dependable performance.
- **False Floor:**

The heating element is mounted below a perforated false floor protecting the operator and their samples from coming into contact with the hot surface.
- **Natural Air Circulation:**

The heat source is located at the bottom of the oven, and the heated air rises towards the top, creating a convection current. The natural convection process results in slower heating rates and longer drying times compared to forced convection ovens, and the spatial temperature uniformity is unlike in a fan forced oven.
- **Incoloy Heating Element:**

Incoloy is a type of superalloy that is renowned for its exceptional ability to withstand high temperatures, resist oxidation, and other forms of high-temperature corrosion. Given these characteristics, Incoloy is used in all Thermoline ovens.
- **Stainless Steel Interior:**

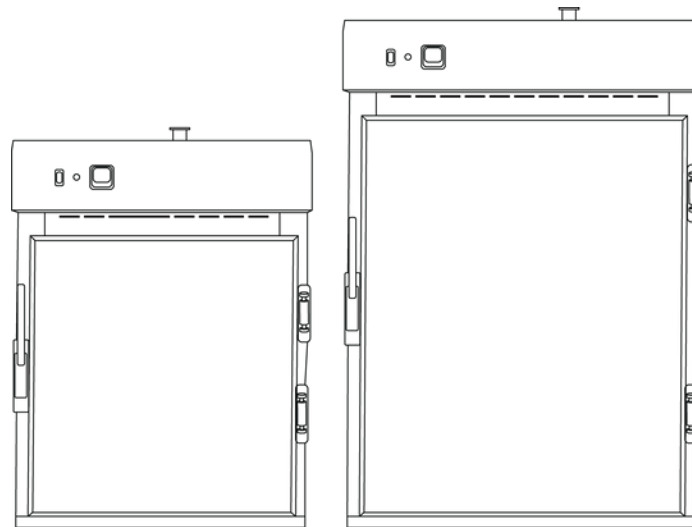
Stainless steel is durable, easy to clean and corrosion-resistant, making it the perfect choice for high heat tasks. 316 marine-grade stainless steel is used here to ensure the most corrosive-resistant liner possible.
- **Digital PID Microprocessor Controller:**

The Omron E5CC-T uses an automated programmable microprocessor to control the temperature within  $\pm 0.1^{\circ}\text{C}$ . The bright LED display has a range of functions including high alarm and programmable multi-setpoint functions.



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## Dimensions

### External

WxDxH (mm)

	TO-30G	TO-150G
External WxDxH (mm)	430x400x730	630x660x1010

### Internal

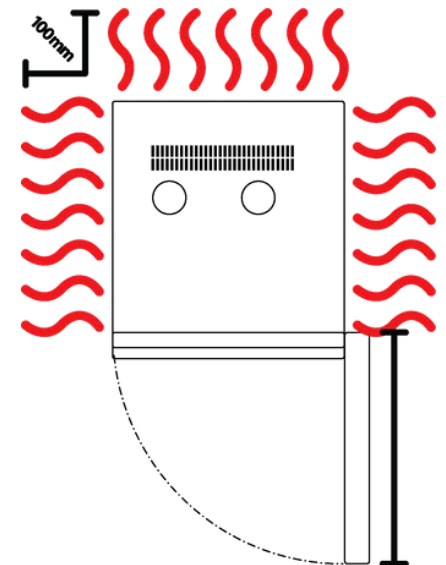
WxDxH (mm)

	TO-30G	TO-150G
Internal WxDxH (mm)	300x280x440	500x510x600

### Clearance

Front (mm)

	TO-30G	TO-150G
Front (mm)	430	630
Back (mm)	100	
Sides (mm)	100	



**See our Drying Oven Range.**

80L, 150L, 250L, 500L, 700L and 630L



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## Technical Specifications

	TO-30G	TO-150G
Temperature Range	Ambient +10°C to 200°C	
Temperature Uniformity	+/-2°C @ 100°C	+/-4°C @ 100°C
Heater Power	500 watts	900 watts
Electrical	2.5A/230V	4A/230V
Nominal Capacity	30L	150L
Porthole Diameter	13mm	
Weight	50kg	100kg

## Features

Shelves (max @100mm spacing)	2 (max 3)	3 (max 4)
Lockable Castors	No	✓
False Floor covering heater	✓	✓
Fibreglass Insulation	✓	✓
Omron E5CC-T	✓	✓

## Safety

Over Temp Safety	✓	✓
Over Current Protection	✓	✓

## Options

BMS Plug	No volt contact closure plug and socket connection to a Building Management System
Additional Shelves	Additional Stainless Steel shelves to suit
Door Locks	Key lockable door locks







# We are proudly Australian owned

We will continue to invest in Australian  
manufacturing.

