



Heater Circulator

***Designed and manufactured in Australia by
Thermoline Scientific***



Proudly Family- Owned and Operated

Today, we remain a proud second-generation family business



A family
owned
Australian
business



Heater Circulator

Designed and Manufactured by **Thermoline Scientific**

The Thermoline Heater Circulator is designed and manufactured to provide an accurate, digitally indicated method of maintaining the temperature of a bath to 100°C whilst circulating the water to minimise the temperature variation throughout the volume of water.

With an air cooled long life circulation motor and an incoloy heating element, these robust units provide precise temperature control, circulation, and heat transfer to the fluid, ensuring consistent and uniform heating of the sample.

You'll enjoy greater precision, ease of use, and temperature stability ($\pm 0.2^{\circ}\text{C}$ for temperatures from ambient +5 to 100°C). Easy to use and robust, you can trust the TU3 will control a constant temperature for as long as you need.

With their proven consistency, precision and reliability, our innovative circulators are what your laboratory bath's setup has been missing.

Thermoline has two models, standard (1000 watts) and the higher 2000 watts TU3-2000W. These circulators are designed and developed in-house by our expert Australian engineers, who are committed to helping your lab perform at its peak.

"This product is Proudly Australian Made."

Thermoline Scientific 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 Scientific 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



Thermoline
SCIENTIFIC

MAINS

OVER
TEMP

PV
SV

TEMPERATURE

UNISTAT
HEATER CIRCULATOR

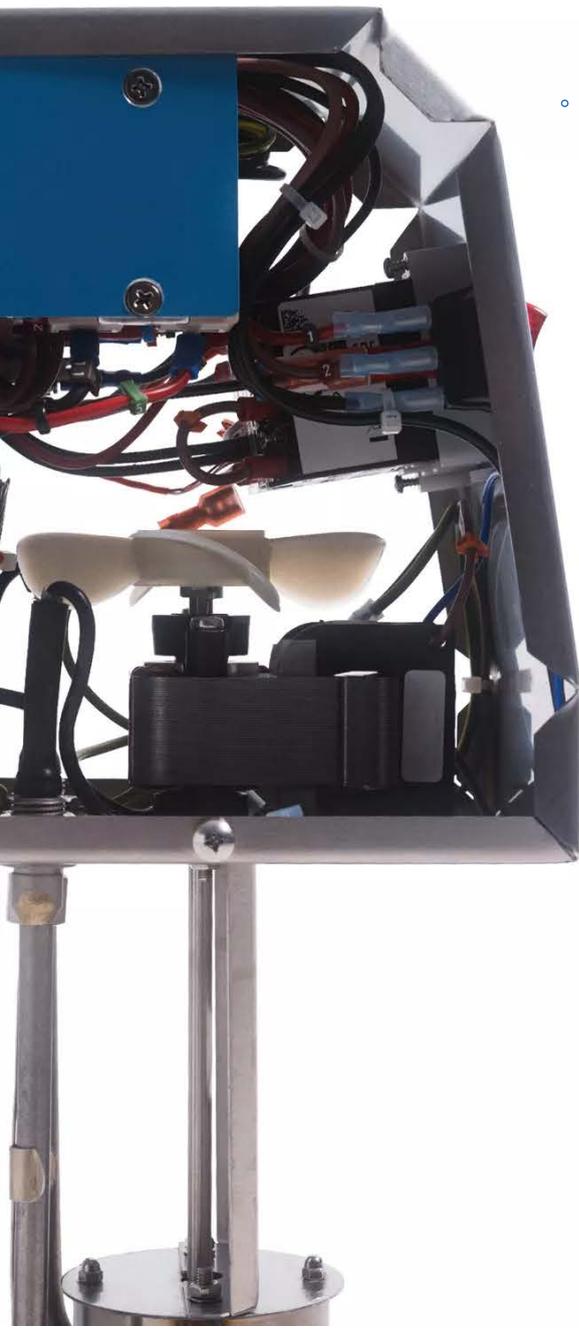
2
YEARS
WARRANTY

Heater Circulator

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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.



- **Australian Made:**

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

The standard 1000 watt heating element is suitable for temperatures up to 100°C in water baths up to 24L capacity. For baths larger than this and applications where temperatures above +80°C are required, we recommend the TU3-2000W with its higher capacity 2000 watt heating element.
- **Digital PID Microprocessor Controller:**

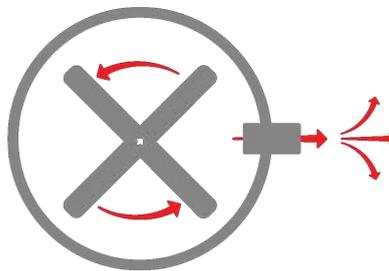
The Omron E5CC uses an automated programmable microprocessor to control the temperature within +/-0.1°C. The bright LED display has a range of functions including high alarm and optional programmable multi-setpoint functions.
- **Mounting Options:**

The Thermoline TWBC water baths feature a bridge especially suited to the TU3. Also available is a universal clamp to allow you to fix the TU3 to your existing water bath.
- **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 water heaters.
- **Stainless Steel Structure:**

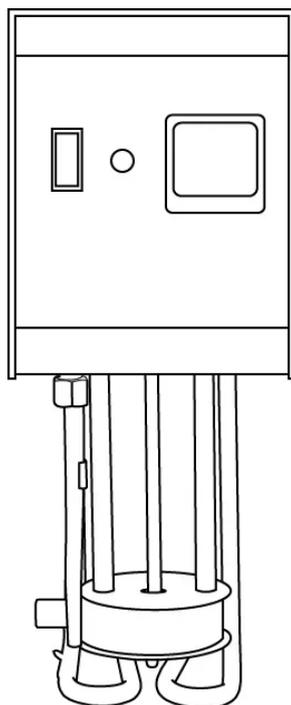
Stainless steel is durable, easy to clean and corrosion-resistant, making it the perfect choice for high heat tasks. 316 marine-grade stainless steel is used here to ensure the most corrosive-resistant liner possible.
- **Circulated Heating:**

A long life motor pumps water throughout the bath, providing a consistent temperature and excellent uniformity.



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Dimensions

TU3

Overall WxDxH (mm)

130x160x340

Bottom Heating Section Only
WxDxH (mm)

90x110x150

Clearance

TU3

Front (mm)

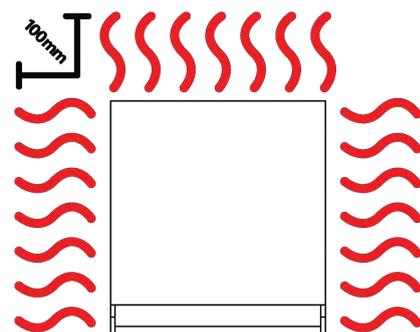
100

Back (mm)

100

Top (mm)

100



See our
TWB range!
12L and 24L

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Technical Specifications

	TU3	TU3-2000W
Temperature Range	Ambient +5°C to 100°C (max temp with bath lid on)	
Bath Capacity	Up to 24L (Up to 48L max temperature dependant)	48L to 80L (Up to 80L max temperature dependant)
Temperature Stability	+/- 0.1°C	
Display Accuracy	+/- 0.1°C	
Electrical	1020W/230V	2020W/230V
Heating Power	1000 watts	2000 watts
Min. Filling Height Below Bath Top	85mm	
Min. Bath Depth Below Bath Top	130mm	
Weight	4kg	

Features

Omron E5CC Controller	✓	✓
Air Cooled Motor	✓	✓
Whisper Quiet Operation	✓	✓
Incoloy Heating Element	✓	✓

Safety

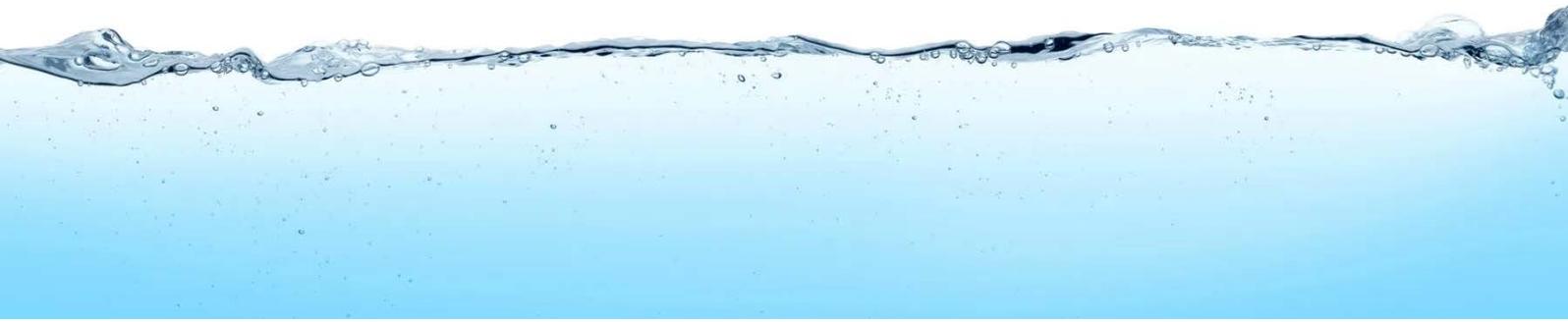
Over Current Protection	✓	✓
Over Temperature Safety	✓	✓

Options

Mounting Bracket	Universal Mounting Bracket to fix TU3 to the wall of an existing bath/tank
Programmable Controller (MSP)	(E5CC-MSP) Upgraded Omron Controller features 256 ramp and/or dwell segments

Warranty:

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





Thermoline
SCIENTIFIC

Circulated Water Bath

DANGER
HOT SURFACE
DO NOT TOUCH



AUSTRALIAN MADE

UNISTAT
HEATER CIRCULATOR

We are proudly Australian owned

We will continue to invest in Australian
manufacturing.

