Envirotherm

Designed and manufactured in Australia by Thermoline Scientific

Thermoline
SCIENTIFIC

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The Humiditherm "Envirotherm" cabinets feature an extended temperature range over the standard Humiditherm cabinets, offering you a greater temperature control envelope. Featuring the ability to store or test your products down to -35°C or as high as +120°C the Envirotherm range comes in our standard 460L and 850L sizes and is most often used for scientific research, product testing, and quality control.

Thermoline has two Envirotherm Temperature and Humidity Cabinets available, both designed and manufactured in Australia. These durable and reliable models make them an ideal choice for all test samples requiring precise humidity and temperature control.

The Envirotherm cabinets feature an extended temperature range over the standard Humiditherm cabinets. These higher-performing cabinets allow for -35°C to +120°C temperatures giving greater flexibility and the opportunity to expose your samples to more extreme environments at a budget-friendly price point.



"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.**

Proudly Family-Owned and Operated

Today, we remain a proud second-generation family business

A family owned Australian business


Thermoline
Humiditherm

Envirotherm

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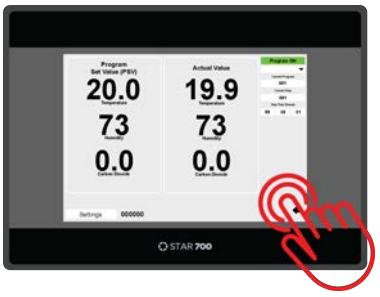
"Providing the new industry standard since 1970."

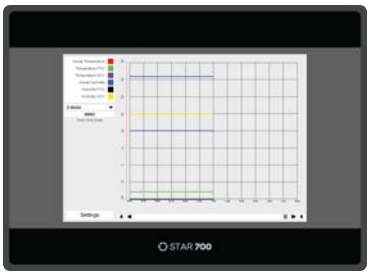
Since 1970, Thermoline lab equipment has been the proven industry standard. Our products appear in thousands of labs across the country and have been trusted for all general or critical research applications.

2 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.
- **Star X 10" Touchscreen:**
  The STAR X touchscreen control system offers easy to program diurnal control of temperature, lighting, humidity and carbon dioxide. The STAR X logs performance data for as long as 800 days. Operators can also download the logged data to a USB and then view data via an Excel spreadsheet.
- **Fully Adjustable Stainless Steel Shelves:**
  Adjustable interior shelves allow for increased storage capacity and organisation by allowing for customisation, flexibility to accommodate different sizes and shapes of items, easy cleaning of interior and cost effective solutions as the unit can be adapted to different needs.
- **Fan Forced Air Circulation:**
  All TEC cabinets feature fan-forced air circulation. This results in a temperature spatial uniformity better than +/-2.0°C (unloaded) and quick recovery times after door openings.
- **Stainless Steel Interior:**
  Stainless steel is durable, easy to clean and resistant to corrosion, making it the perfect choice for high-humidity environments. 316 Stainless steel is used here to ensure the most corrosive-resistant liner.
- **Trough Humidification:**
  The TEC cabinets provide humidification control via a heated water trough and bare pipe evaporator. This provides quick and stable humidity control and avoids the need for ultrasonics which may disturb live samples such as those used in Drosophila research.

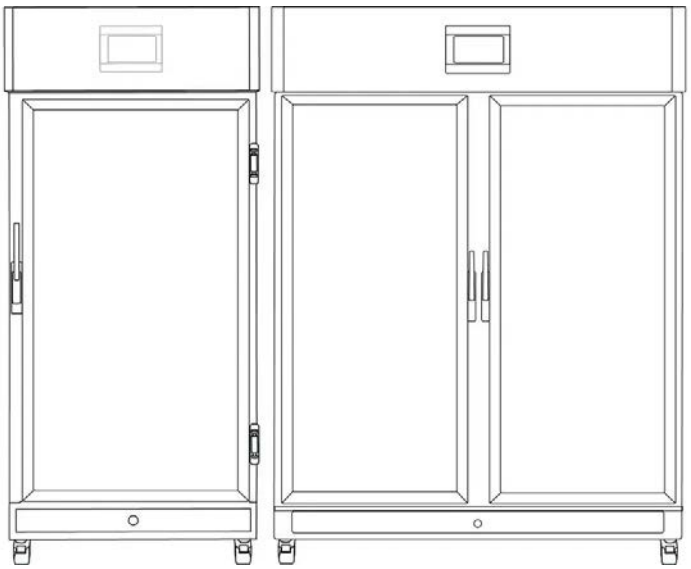




Australian Government | NSW Health | CSIRO | The University of Sydney | Pfizer | Monash University

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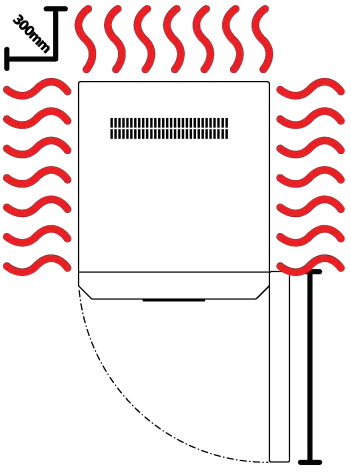


Note: Cabinets positioned side-by-side require at least 500mm between or fitment of ventilation deflectors on exhaust side.

Dimensions

External	TEC-460-SD	TEC-850-SD
WxDxH (mm)	810x960x1950	1330x960x1950
Internal		
WxDxH (mm)	650x650x1140	1170x650x1140

Clearance	TEC-460-SD	TEC-850-SD
Front (mm)	810	650
Back (mm)	300	
Sides (mm)	300	





See our Climatron range!
360L, 520L and 1100L

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Technical Specifications	**TEC-460-SD**	**TEC-850-SD**
Temperature Range	**-35°C to +120°C**	
Temperature Control Stability	**+/- 0.2°C**	
Temperature Uniformity	**+/- 2.0°C**	
Humidity Range	**30% to 95%RH (within +5°C to +80°C temp range) as per Control Envelope**	
Humidity Uniformity	**+/- 5%RH**	
Heat Removal Capacity @ 10°C	**600 watts**	**800 watts**
CO2 Range (Optional)	**Ambient to 3000 PPM**	
Porthole Diameter	**50mm**	
Electrical	**15A/230V**	
Nominal Capacity	**460L**	**850L**
Weight	**250kgs**	**360kgs**
Heat Output	**700 watts to 2700 watts (dependant on operating conditions)**	
Noise Level @ 1 metre (dbA)	**59**	
Refrigerant Type	**R507**	

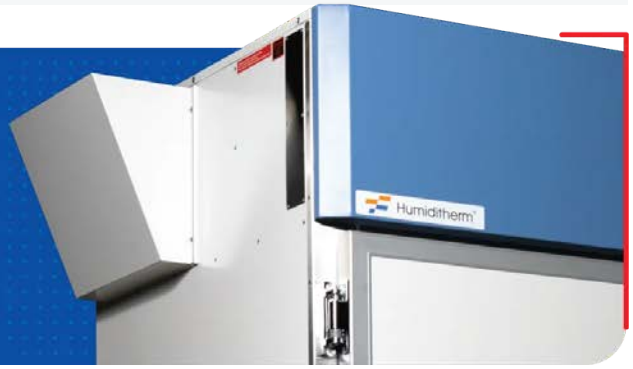


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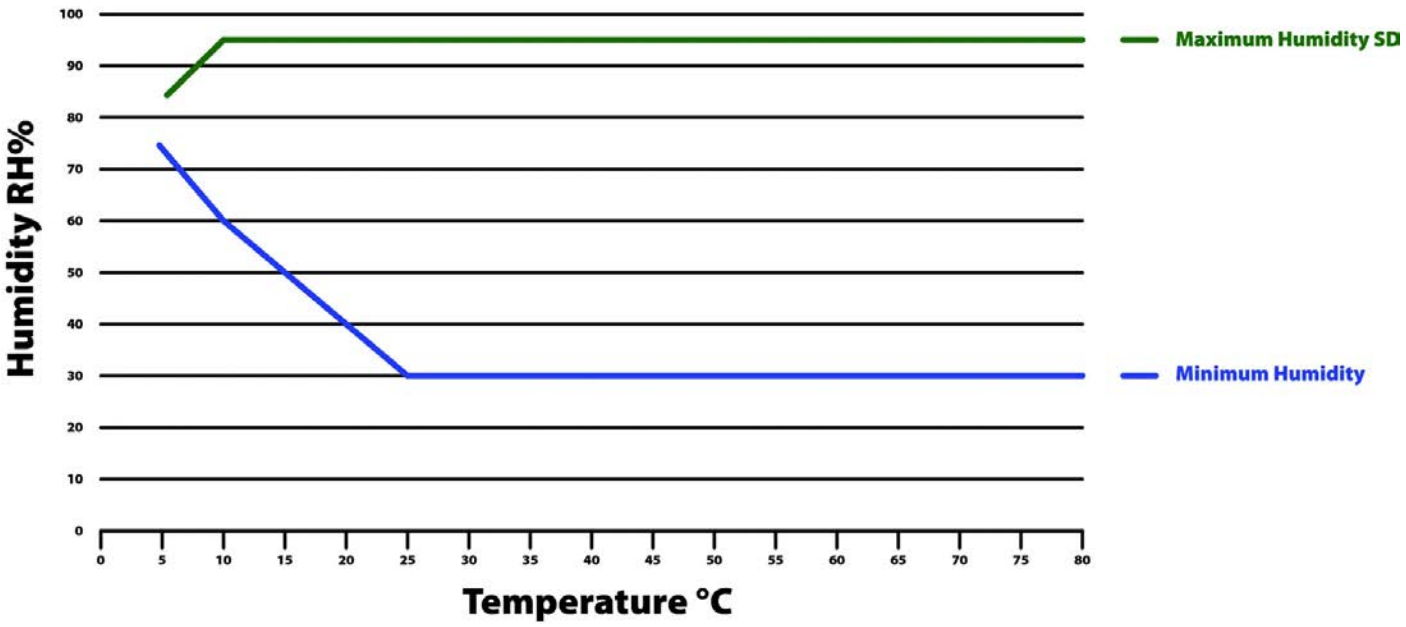
Features	**TEC-460-SD**	**TEC-850-SD**
Shelves	**4**	**4 levels**
Lockable Castors	✔	✔
Star 700 Touch Screen	✔	✔
Ethernet Port	✔	✔
Download data to USB	✔	✔
Battery Backed-up Alarms	✔	✔
Trough Humidification	✔	✔
BMS	✔	✔
Supply Line Water Filters 1x Carbon, 1x Sediment	✔	✔
Fibreglass Insulation	✔	✔
Safety		
Over Current Protection	✔	✔
Over Temperature Safety	✔	✔
Element Safety Cut Out	✔	✔
Options		
Additional Shelves	**Additional stainless steel shelves and clips can be supplied**	
Heavy Duty Shelves	**Update to allow for higher loads on shelves (limits total number of shelves possible for use)**	
Door Locks	**Door latches can be replaced with key lockable versions**	
25L Gravity Water Feed Tank	**Gravity feed water supply where mains water is unavailable**	
55L Pump Water Feed Tank	**Pump feed water supply where mains water is unavailable**	
CO2 Control	**Set Point Control of CO2 Between Ambient and 3000ppm**	
Additional Portholes	**Additional 50mm port holes can be added to the side walls**	

"NEW! The deflector allows for side by side positioning of the temperature and humidity cabinets."

Thermoline Ventilation Deflectors work by redirecting the flow of warm air exhausted from the refrigeration system upwards. This allows for side by side positioning of the cabinets, avoiding exhausted air being drawn into the next cabinet that may initiate overheating.



Control Envelope for TEC cabinets.



Please note: Humidity is not controlled lower than +5°C and above +80°C.

Customisation

A lot of the products we manufacture can be customised to suit your space or samples. Speak to our friendly customer service team about customising your environmental chamber in a way to suit your needs.





See our Door Lighting range!

460L and 850L



We are proudly Australian owned

We will continue to invest in Australian manufacturing.

AUSTRALIAN MADE®