

# REFRIGERATED TEMPERATURE AND HUMIDITY CABINETS

(+10°C TO +60°C) (10% TO 90% RH)

Image: TRH-460 and TRH-850



## Refrigerated Temperature and Humidity Cabinets

- Models available from 150 to 850 litres
- Precise control of temperature and humidity
- Digital indication of internal temperature and set values
- Quiet running CFC free refrigeration system
- Fully insulated to help maintain temperature values
- Humidity control via in built dew point water trough
- Monitoring or cable point access port
- Fully adjustable open wire shelves
- Fitted with castors to allow for easy moving

**Thermoline Scientific**  
Office Phone (02) 9604 3911  
Office Fax (02) 9725 1706

Email [info@thermoline.com.au](mailto:info@thermoline.com.au)  
Web [www.thermoline.com.au](http://www.thermoline.com.au)

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# PRODUCT DETAILS

The TRH series manufactured by Thermoline offer accurate and precise control of temperature and humidity. These high performance models have the ability to perform heating, cooling, humidification and dehumidification functions. This range is available in four standard capacities from 150 litres to 850 litres.

Thermoline also has the ability to customise each unit to meet unique applications. All models are internally constructed from stainless steel and are externally constructed from an attractive PVC coated steel. Solid and glass doors are available for all models.

Features
Microprocessor controlled with heat/cool outputs
Fan forced air supply via long life self cooling motors delivers conditioned air throughout for precise internal conditions
Temporal accuracy at set point better than $\pm 0.2^{\circ}\text{C}$ and 1%RH (unloaded chamber)
Spatial accuracy measured to be better than $1^{\circ}\text{C}$ and 3%RH (unloaded chamber)
Dehumidification via purpose built refrigeration system with air cooled condenser
Heating and humidification provided through electric stainless steel heating element
Cooling provided via evaporator coils with in air handling system and electronic switching of solenoid valves
High grade electronic temperature and humidity sensor
50mm Monitoring or cable port access point (additional ports available)
Convenient manual or log book holder on side of cabinet
Easy installation with optional gravity feed water tank
Built in condensate drain system to single exit point-allows easy cleaning of internal trough generator
Optional ramp to set point functions

Safety Features
Over current protection
Auto over temperature safety (Failsafe)
Built in electric element safety cut out
Positive door closure
Lockable castors
Water trough with automatic water level detection and low water safety cut out
Controller error codes

Optional Accessories
Available with solid or glass doors
Extended temperature range of $+10^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ (solid door model only) Code: 80DEG
Programmable controllers with computer interface
Retransmission of process variables
Deviation alarms with remote contacts
Internal glass viewing window
Additional cable port entry holes

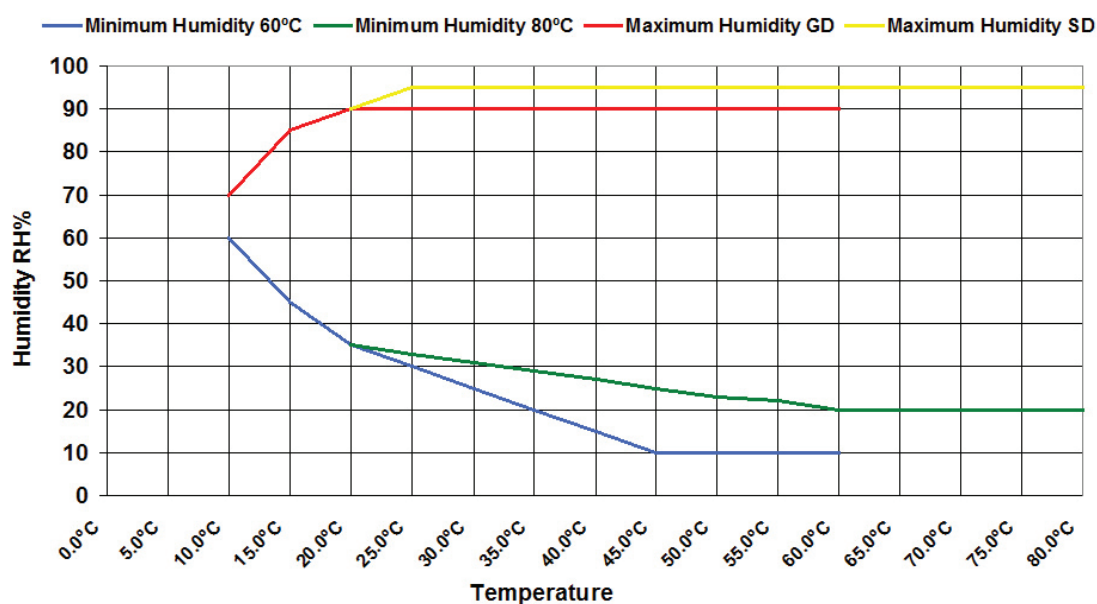
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# SPECIFICATIONS

## Control Envelope for 150, 300,460 and 850 Litre Cabinets



Model	TRH-150	TRH-300	TRH-460	TRH-850
Temperature Range	+10°C to +60°C (Option to 80°C with Solid Door)			
Humidity Range	10% to 90% (Option to 95% with Solid Door)			
Internal Dimensions (HxWxD mm)	640x500x500	990x600x500	1140x650x650	1140x1170x650
External Dimensions (HxWxD mm)	1350x660x760	1750x760x760	1900x810x910	1900x1330x910
Capacity (litres)	150	300	460	850
Shelf Positions	Multiple			
Shelves Supplied	2	3	4	8
Electrical Supply	10A	15A		
Temperature Control Stability	±0.2°C			
Temperature Spatial Variation	±1.0°C			
Humidity Control Stability	1% RH			
Humidity Spatial Variation	3% RH			
Approx Weight (kg)	90	120	150	200
Packed Dimensions (HxWxD mm)	1570x870x910	1980x960x910	2100x1050x1100	2100x1540x1100
Packed Weight (kg)	220	260	250	420

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, with our equipment being used in small and large Hospitals, Universities and Research Laboratories across Australia and the Asia Pacific region.

We're proud to say that we are 100% Australian owned and operated.

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# LARGE CAPACITY REFRIGERATED TEMPERATURE AND HUMIDITY CABINETS

(+10°C TO +60°C) (20% TO 90% RH)

Image: TRH-1250



## Refrigerated Temperature and Humidity Cabinets

- Large capacity models available from 1250 to 2000 litres
- Precise control of temperature and humidity
- Digital indication of internal temperature and set values
- Quiet running CFC free refrigeration system
- Fully insulated to help maintain temperature values
- Humidity control via in built dew point water trough
- Monitoring or cable point access hole
- Fully adjustable open wire shelves
- Fitted with castors to allow for easy moving

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# PRODUCT DETAILS

Thermoline's large capacity Temperature and Humidity cabinets differ from the standard TRH-Series being designed for the long-term storage of samples where high volume capacity are needed along with precise control of all parameters. Two large capacity models are available in 1250 and 2000 litres.

Features
Precise temperature control between 10°C and 60°C and humidity control between 20% to 90% RH
Solid lockable front doors with internal glass view windows
Microprocessor controlled with heat/cool outputs
Built in condensate drain system
Fan forced air supply via long life self cooling motors delivers conditioned air throughout for precise internal conditions
Temporal accuracy at set point better than $\pm 0.2^{\circ}\text{C}$ and 1%RH (unloaded chamber)
Spatial accuracy measured to be better than 1°C and 3%RH (unloaded chamber)
Dehumidification via purpose built refrigeration system with air cooled condenser
Heating and humidification provided through electric stainless steel heating element
Cooling provided via evaporator coils with in air handling system and electronic switching of solenoid valves
High grade electronic temperature and humidity sensor
50mm Monitoring or cable port access point (additional ports available)
Convenient manual or log book holder on side of cabinet
Easy installation with optional gravity feed water tank
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Safety Features
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# SPECIFICATIONS

Model	TRH-1250	TRH-2000
Temperature Range	+10°C to +60°C	
Humidity Range	20% to 90%	
Internal Dimensions (HxWxD mm)	1300x1520x650	1600x1520x820
External Dimensions (HxWxD mm)	2020x1700x820	2320x1700x990
Capacity (litres)	1250	2000
Shelf Positions	Multiple	
Shelves Supplied	6	
Electrical Supply	15 Amps / 240 V	
Temperature Control Stability	±0.1°C	
Temperature Spatial Variation	±1.0°C	
Humidity Control Stability	±1% RH	
Humidity Spatial Variation	±3% RH	
Approx Weight (kg)	300	400
Packed Dimensions (HxWxD mm)	2220x1940x1020	2530x1940x1200
Packed Weight (kg)	400	520

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