

# ULTRA LOW FREEZERS

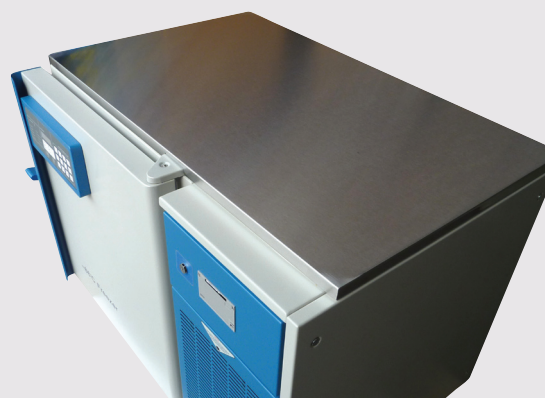
(-86°C)

Image: DW-HL100



## Ultra Low Under Bench Freezers

- Wide temperature range between -10°C to -86°C
- Temperature accuracy within 1°C
- BMS Connection for Building Management System
- 7 day chart recorder
- Digital temperature display with key pad
- Audible and visual alarms
- 72 hour battery back up for controller display
- 3 years warranty on parts
- Quality certificates: ISO9001, ISO14001 and ISO13485



Shown with optional stainless steel bench top

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# PRODUCT DETAILS

This robust 100 litre bench / under bench -86 degree freezer is ideal for small laboratories where space is minimal. Due to its compact size, it can be placed on top of, or under a bench. This model can also be supplied with an optional stainless steel top plate which allows users to store items on top of the freezer without damaging the cabinet.

The refrigeration system features an advanced single stage compressor with CFC free refrigerant to achieve temperatures down to -86 degrees within four hours of operation.

Standard features include a front lockable door, four castors for easy moving, vacuum release port, two adjustable inner shelves with two inner doors and a printer to easily report temperature changes over a seven day period.

## Safety Devices

Over temperature alarms

Over current protection

External connection for BMS (in-house building management system)

72 hour battery back up for alarms and printer

High and low temperature alarms, door open alarms, filter block alarm and system failure alarm

## Optional Accessories

CO2 BACKUP, CO2 backup system

Inventory racks with boxes - 50mm or 75mm high boxes each with 81 cells

# SPECIFICATIONS

Model	DW-HL100
Internal Dimensions (DxWxH mm)	450x450x500
External Dimensions (DxWxH mm)	730x1030x810
Capacity (litres)	100
Temperature Range	-10°C to -86°C
Internal Material	Stainless steel
External Material	Powder coated steel
Style	Bench
Power (Amps)	4.2
Weight (kg)	250

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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# ULTRA LOW FREEZERS

(-86°C)

Image: DW-HL538



## Ultra Low Upright Freezers

- Wide temperature range between -10°C to -86°C
- Temperature accuracy within 1°C
- BMS Connection for Building Management System
- 7 day chart recorder
- Digital temperature display with key pad
- Audible and visual alarms
- 72 hour battery back up for controller display
- 3 years warranty on parts
- Quality certificates: ISO9001, ISO14001 and ISO13485



Stainless steel storage racks with 81 cell cardboard boxes available (see table below for configurations)

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# PRODUCT DETAILS

Thermoline's new range of upright -86 degree ultra low freezers are ideal for busy laboratories where large quantities of products are required to be stored at ultra low temperatures. This range of upright freezers suit a wide variety of research fields such as medical research in universities and hospitals plus automotive, electronic and military industries.

The refrigeration systems used feature advanced single or dual stage compressors which are powered by world renowned brands such as Danfoss and Copeland. The technology used provides efficiency and quietness while operating. All models use CFC free refrigerant and can reach temperatures down to -86 degrees within four hours of operation.

Standard features include front lockable doors, four castors for easy moving, vacuum release port, adjustable inner shelves with inner doors and a printer to report temperature over a seven day period. A circular chart recorder is also fitted standard for additional monitoring.

Models DW-HL328 and DW-HL538 have CE conformity and are manufactured to ISO 13485:2003 which makes them suitable for medical applications such as plasma storage.

Voltage fluctuation compensation equipment is fitted to all freezers as standard to allow normal operation even when voltages fluctuate between 176V to 262V.

Safety Devices
Over temperature alarms
Over current protection
External connection for BMS (in-house building management system)
72 hour battery back up for alarms and printer
High and low temperature alarms, door open alarms, filter block alarm and system failure alarm

Optional Accessories
CO2 BACKUP, CO2 backup system
Inventory racks with boxes

## SPECIFICATIONS

Model	DW-HL218	DW-HL328	DW-HL538	DW-HL668
Internal Dimensions (WxDxH mm)	585x470x768	582x470x1200	650x600x1345	815x667x1200
External Dimensions (WxDxH mm)	940x840x1552	940x840x1999	940x840x1999	996x1075x1997
Capacity (litres)	218	328	538	668
Temperature Range	-10°C to -86°C			
Internal Material	Stainless steel			
External Material	Powder coated steel			
Style	Upright			
Power (Amps)	4.2	6.3	8.4	11.3
Weight (kg)	250	280	350	420

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# INVENTORY SYSTEMS

Stainless steel inventory racks are available for all upright ultra low freezers. These racks are supplied with cardboard boxes which are available in sizes 133x133x50mm or 133x133x75mm.

50mm High Boxes for Model	DW-HL218	DW-HL328	DW-HL538	DW-HL668
Rack Dimensions (WxDxH mm)	140x414x244	140x414x280	140x414x280	140x555x280
Total Racks Per Cabinet	9 x 12 boxes	12 x 12 boxes	16 x 12 boxes	20 x 20 boxes
Total Boxes Per Cabinet	108	144	192	400

75mm High Boxes for Model	DW-HL218	DW-HL328	DW-HL538	DW-HL668
Rack Dimensions (WxDxH mm)	140x415x321	140x415x238	140x550x238	140x550x238
Total Racks Per Cabinet	12 x 8 boxes	12 x 9 boxes	16 x 12 boxes	20 x 12 boxes
Total Boxes Per Cabinet	96	108	192	240

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