

LT ecocool

Energy saving refrigerated and heated circulating baths

The range of innovative, eco-friendly, refrigerated heated circulating baths reduce operating costings and help to protect the environment by achieving energy savings of up to 80%*. A choice of two models, both supplied assembled as ready-to-use kits, complete with accessory tubing*, clips and connectors as standard.

Choice of two models, temperature range -25 to 150°C* (vary on model choice)

Industry leading 4 year warranty with online registration

Active cooling throughout the full temperature range

Energy savings of up to 80% *compared to standard compressor units



The image shows a dark grey Grant LT ecocool 150 circulating bath. It has a control panel on top with a digital display showing 150.00°C and a circular dial. The front panel features a large speaker grille and a single front switch. The unit is compact and rectangular with a carrying handle on top.

4 year warranty  **Built in Britain**

Eco mode for optimising the cooling control needed, enabling rapid cool down when required.

Intuitive user interface

Modern, sleek attractive design.

No-spill valved front drain.

No side vents - located to suit the user, not the unit.

Thermostat and chiller work in harmony - neither will operate alone, eliminating any danger of overheating or freezing.

Full colour five language QVGA TFT display on the LT ecocool 150.

Single front switch for user convenience.

True energy saving against competitor units that only switch the compressor on or off.

* Temperature range of tubing supplied: -40°C to 100°C (can be length as required). Supplied tubing 2 x 1.5m ID 9mm ø

Applications

- Pharmaceutical - mini pilot plant reactors
- Education - immersing small samples, photometry, chromatography systems
- Industrial - QC testing, sample preparation, general cooling, reaction chemistry, temperature control, semi-conductor manufacturing, rheometry
- Food - refractometry
- Life-science - electrophoresis cooling

LT ecocool refrigeration range

Technical specifications



		LT ecocool 100	LT ecocool 150
Dimensions	h x d x w mm	640 x 430 x 245	
Capacity	L	7	7
Temperature range	°C	-20 to 100	-25 to 150
Stability	±°C	0.05	0.02
Flow rate (max)	L/min	17	14-22 (adjustable)
Pump pressure (max)	mbar	250	530
Working area	d x w mm	118 x 154	
Min/max fluid level	mm	85/145	130/145
Calibration points		2	5
Cooling power (mean)	@20°C W	227	415
	@0°C W	190	227
	@-10°C W	115	117
	@-20°C W	41	71
Programmes		-	1 x 30 segments Labwise® required
Communication interface		-	USB
Temperature probe socket		-	6 pin mini DIN
Display		4 digit LED	Full colour QVGA TFT
Languages		-	EN, FR, DE, IT, ES
Timer		1 minute to 99 hours 59 minutes	
Temperature presets		3	
Alarms		High	High and low
Electrical supply (max) A	220-240V	12 (50 or 60 Hz versions available)	12 (50/60Hz)
	110-120V	18.5 (50/60Hz)	18.5 (50/60Hz)
Safety		Adjustable over temperature cut-out	
Ready to use kits		Assembled and supplied with standard tubing, insulation, clips and connectors	
Weight	kg	29	

Fluids

We recommend the following fluids for use in Grant baths:

- 50°C to 50°C: Silicone oil - low viscosity Bayer silicone M3
- 30°C to 70°C: 50% water, 50% antifreeze - inhibited ethylene glycol
- 0°C to 30°C: 80% water, 20% antifreeze - inhibited ethylene glycol
- 5°C to 99.9°C: Water - do not use to boil water
- 70°C to 150°C: Silicone fluid (viscosity ~20cs, flash point ≥230°C, fire point ≥280°C)

Always read the manual and warnings when choosing a fluid.