

## New! LT ecocool Refrigerated / Heating Circulating Baths

### LT ecocool range - Chiller technology designed with you in mind

- ECO-FRIENDLY › Delivers energy savings of up to 80%
- ECONOMICAL › Whole-life cost savings
- EASY TO USE › Intuitive design and interface
- READY TO USE › Assembled and supplied with standard tubing, insulation, clips and connectors
- ACTIVE COOLING › From -25°C to 150°C
- MODERN DESIGN › Sleek, cool, modern



### LT ecocool range - Cool redefined



Shown with Asynt reactor and DrySyn SnowStorm

### Applications

Temperature control of external equipment including: rotary evaporators, spectrophotometers & refractometers. Circulation of temperature control fluid to jacketed vessels, cooling crystallisation vessels, temperature probe calibration, product testing, product QC, temperature control of external equipment.

# New! LT ecocool Refrigerated / Heating Circulating Baths

## LT ecocool features



- › Bright, full colour display QVGA TFT on 150 model
- › 5 languages on the 150 model (EN, FR, DE, IT, ES)
- › Chiller icon showing variable power use
- › Eco icon for energy efficient mode
- › 3 programmable temperature pre-sets

- › Single front switch for user convenience
- › No-spill valved front drain
- › Magnetic closure condenser cover, easily removed for cleaning



- › USB communication interface
- › External temperature probes available
- › Relay control in 150 Grant LT ecocool models
- › Thermostat and chiller work in harmony with data link
- › One power cable for user convenience\*

- › Unit can be assembled at 90° for alternative placement
- › No side vents, locate to suit user, not the unit



\* 2 power cables on 120V versions.

## Accessories for LT ecocool and Optima™

### Labwise™ control software

Makes set-up, programming, monitoring and data logging straightforward (150 only).



### Vertical turbine pump

High pressure pumps up to 1650 mbar.



### Additional Hose kits

-40-100°C and -50-200°C assembled with LT ecocool/Optima™ pump outlet plate and hose clips.



### Remote temperature probes

Plastic flexible temperature probe PT1000 (PEP) and stainless steel temperature probe (SEP).



### Stainless steel and metal connectors,

Hose barb and super seal rapid, optional.



## New! LT ecocool Refrigerated / Heating Circulating Baths

### Specifications

h: 640mm  
d: 430mm  
w: 245mm  
weight: 29kg

LT ecocool 100



LT ecocool 150



		LT ecocool 100	LT ecocool 150
Temperature range	°C	-20 to 100	-25 to 150
Temperature stability	°C	±0.05	±0.02
Typical cooling power at	20°C W	210	378
	0°C	184	189
	-10°C	100	84
	-20°C	21	53
Flow rate	L/min	17	14 - 22 (adjustable)
Pump pressure	mbar	250	530
Programs		-	1 x 30 segments (via Labwise™)
Display		4 digit LED	Full colour QVGA TFT
Languages		-	5 (EN, FR, DE, IT, ES)
Timer		1 min to 99 hrs 59 mins	
Communication / probe		-	USB / 6 pin mini DIN temperature probe socket
Alarms (audible & visual)		High	High and low
Safety		Adjustable over temperature cut-out	
Tank volume	L	4.5 - 6	5.5 - 6

Grant Instruments retain the right to amend or change product information without prior notice.

### Applications

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Further product information:

**Call us:**

+44 (0) 1954 233 161

**Email:**

[sales@camlab.co.uk](mailto:sales@camlab.co.uk)




# Optima™ refrigerated / heating circulating baths

## Optima™ refrigerated / heating circulating baths

- POWERFUL** › Excellent cooling performance and quiet operation
- RELIABLE** › Robust, premium materials and construction
- SIMPLE** › Easy to set up, use and maintain, no-spill front drain
- PRECISE** › Precise temperature control
- CHOICE** › Choose from 4 Optima™ thermostats



## Specifications

Refrigeration Units			R4	R5	LTC4
● = standard			 <p>h: 550mm d: 515mm w: 393mm weight: 40.6kg</p>	 <p>h: 610mm d: 590mm w: 414mm weight: 48.3kg</p>	 <p>h: 755mm d: 515mm w: 390mm weight: 42.9kg</p>
Effective operating temperature range (Refrigeration unit and Optima™ thermostat)			Choose from: T100 0 to 100°C TC120 -20 to 100°C TX150 -30 to 100°C TXF200 -30 to 100°C	Choose from: T100 0 to 100°C TC120 -20 to 100°C TX150 -47 to 100°C TXF200 -47 to 100°C	-30 to 100°C Programmable refrigerated / heating circulating bath supplied with a heating circulator, refrigerator, insulated tubing* and clips to form a ready-to-use system.
Capacity	L		20	12	20
Working area h x l x w	mm		140 x 230 x 305	180 x 260 x 115	140 x 230 x 305
Drain tap			●	●	●
Typical cooling capacity at	20°C	W	900	1100	900
	0°C		500	1050	500
	-20°C		180	580	180
	-30°C		40	370	40
	-47°C		-	25	-

Temperature range of hosing supplied up to -40 to 100°C (can be cut to length as required)

Optima™ thermostats		T100	TC120	TX150	TXF200
					
Integral Pump	(flow rate / pump pressure)	-	16L min / 210 mbar	18L min / 310 mbar	22L min adjustable / 530 mbar
Programs / temperature pre-sets		- / 3	- / 3	1 x 30 (Labwise™) / 3	10 x 100 / 3
Display		4 digit LED			Full colour QVGA TFT
Language		-			5 (EN, FR, DE, IT, ES)

## Applications

Clinical, Microbiology and Pathology labs - media tempering, thawing & incubating samples, University research - temperature control of spectrophotometers & refractometers and jacketed vessels, Industrial labs - temperature probe calibration, water analysis, QC testing product, petrochemical testing, material testing, milk sample testing.

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