

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.

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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.



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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

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.

Further product information:

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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					
			h: 550mm d: 515mm w: 393mm weight: 40.6kg	h: 610mm d: 590mm w: 414mm weight: 48.3kg	h: 755mm d: 515mm w: 390mm weight: 42.9kg
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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