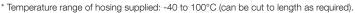
LT ecocoolTM energy efficient refrigerated / heating circulating baths

A new range of innovative, eco-friendly, refrigerated heating circulating baths offering significant running cost savings whilst delivering powerful cooling. Consisting of three models, all products in the LT ecocoolTM range are supplied assembled as ready to use kits, complete with accessory hosing*, clips and connectors as standard.

- n Choice of three models, temperature range -30°C to 200°C+ (model dependent)
- n Industry leading 4 year warranty with Grant renowned service and support, no registration required
- n Active cooling through the whole temperature range
- n True energy saving of up to 80% against standard compressor units



+ LT ecocoolTM 200 230V available 2016







eco mode optimises the cooling control needed, enabling rapid cool down when required

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

Intuitive user interface

No-spill valved front drain

Built in Britain to the highest specifications, 5 day dispatch, 4 year industry leading warranty



Full colour 5 language QVGA TFT display on both the ecocool 150 and ecocool 200 units

Modern, sleek, attractive design

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

Single front switch for user convenience

No side vents, locate to suit the user, not the unit

Applications:

- n Pharmaceutical Mini pilot plant reactors
- n Education Rotary evaporator cooling, replacement of running tap water cooling, immersing small samples, photometry, chromatography systems
- n Industrial QC testing, sample preparation, general cooling, reaction chemistry, temperature control, semi-conductor manufacturing, rheometry
- n Food Refractometry
- n Life-science Electrophoresis cooling
- n High temperature cooling Active up to 200°C

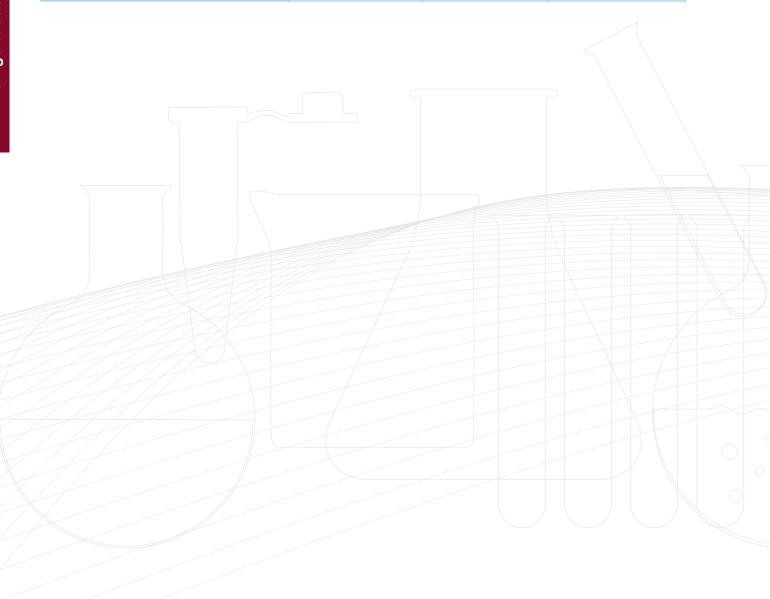
LT ecocool TM refri	geration range -	- technical specifica	tion	
		LT ecocool TM 100	LT ecocool™ 150	LT ecocool TM 200*
		29 kg h: 640 mm d: 430 mm w: 245 mm	29 kg h: 640 mm d: 430 mm w: 245 mm	29 kg h: 640 mm d: 430 mm w: 245 mm
Temperature range	°(-25 to 150	-30 to 200
Temperature stability	±°C	1 11	0.02	0.01
Flow rate (max)	L/mii	17	14 - 22 (adjustable)	
Pump pressure (max)	mba	r 250	530	530
Tank volume	l	5	6	
Calibration points		2	5	
Cooling power (typical)	@ 20°C V	250	350	500
	@ 10°C V	230	330	430
	@ 0°C V	185	230	300
	@ -10°C V	115	109	140
	@ -20°C V	45	50	50
Programs		-	1 x 30 segments via Labwise TM 10 x 100 segments	
Communication interface		-	USB	
Temperature probe socket		-	6 pin mini DIN	
Display		4 digit LED	Full colour QVGA TFT	
Languages		-	5 (EN, FR, DE, IT, ES)	
Weight	k		29	
Timer			1 min to 99 hrs 59 mins	
Temperature presets			3	
Alarms		High	High and low	
Electrical power (max) kW	120V/230\	2.16/2.07 (60/50 Hz)	2.28/2.76 (50-60 Hz)	-/2.76 (50-60 Hz)
Safety		Ac	Adjustable over temperature cut-out	
Ready to use kits		Assembled and supplied with standard tubing, insulation, clips and connectors		
* available 2016				

	* available 2016						
	Options and accessories						
	Labwise [™] PC software (optional)						
	Allows two-way communication for status display, programming and data capture (see p. 3.1. for more information). USB cable provided						
	External probes						
	PEP plastic probe SEP stainless steel probe		0				
	Vertical turbine pumps (optional) - when pump is fitted, avail	ical turbine pumps (optional) - when pump is fitted, available working area is reduced.					
	Low noise, compact design. Supplied with pipe connections and special lid for fitting to tank, pipe bore 12.7 mm. VTP1-LT maximum pressure 1000 mbar maximum flow 9 L/min VTP2-LT maximum pressure 1650 mbar maximum flow 12 L/min Heat exchange coil		Required only where application demands a higher pressure than the delivered by the internal to maintain flow. Note: The optional VTP pumps will transfer additional heat to the bat and reduce the net cooling power of the refrigeration unit. The above figures must be taken into consideration when choosing the refrigerat unit. when ordering a VTP pump, please specify which refrigeration that it is to be used with. Note: Other sizes of heat exchange coil can be made to your specification, contact us for further information				
	CW5 Other sizes of heat exchange coil can be made to your specification, contact us for further information	7	Temperature range: 2°C above the temperature of the cool Coil Øxl (mm): 77x55 Pipe bore inlet/outlet (mm): 7				
	Hose Kits						
HOSE100 General purpose hose kit: -40 to 100°C HOSE200 High temperature hose kit: -50 to 200°C			Hose kit 2 x 2m, assembled with and simple hose clips, no tools				

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Refrigerated / heating circulating baths » Models, options and accessories

High pressure pumps (optional)						
			VTP pumps		Heat exchange coil	
			VTP1-LT	VTP2-LT	CW5	
Maximum pressure	water	mbar	1000	1650	-	
Maximum flow	water	L/min	9	12	-	
Pipe bore	inlet/outlet	mm	12.7	12.7	7	
Electrical connection			10 amp IEC	10 amp IEC	-	
Power consumption		W	30	40	-	
Power output to liquid @ 20°C		W	15	22	-	
Safety			thermal fuse	thermal fuse	-	
Temperature range		οС	-	-	2°C above coolant temperature	
Coil Øxl		mm	-	-	77 x 55	



Optional accessories

Pump conr	nectors (optional)	Part number
17	Replacement plastic pump inlet/outlet connector. Fits tubing 9mm inner dia. Temp range -50°C to 200°C	P-M6
	Replacement plastic pump inlet/outlet connector. Fits tubing 15mm inner dia. Temp range -50°C to 200°C	P-M11
2 40	Metal pump inlet/outlet connector, dual seal super rapid 4mm. Fits semi rigid tubing 4mm outer dia. Temp range -20°C to 100°C	M-SR4
	Metal pump inlet/outlet connector, dual seal super rapid 6mm. Fits semi rigid tubing 6mm outer dia. Temp range -20°C to 100°C	M-SR6
	Metal pump inlet/outlet connector, dual seal super rapid 8mm. Fits semi rigid tubing 8mm outer dia. Temp range -20°C to 100°C	M-SR8
	Metal pump inlet/outlet connector, hose barb 7mm. Fits flexible tubing 7mm inner dia. Temp range -40°C to 120°C	M-HB7
aids.	Metal pump inlet/outlet connector, hose barb 9mm. Fits flexible tubing 9mm inner dia. Temp range -40°C to 120°C	М-НВ9
aids.	Metal pump inlet/outlet connector, hose barb 12mm. Fits flexible tubing 12mm inner dia. Temp range -40°C to 120°C	M-HB12
	Metal pump inlet/outlet plate, 1/4 " BSP/G1/4 female. Temp range -50°C to 200°C	M-UC
	General purpose hose kit, includes 2 x 2m general purpose insulated hosing -40 to 100°C, assembled with LT ecocool TM /Optima TM pump outlet plate and simple hose clips, no tools required	HOSE100
	High temperature hose kit, includes 2 x 2m high temperature insulated hosing -50 to 200°C, assembled with LT ecocool TM /Optima TM pump outlet plate and simple hose clips, no tools required (illustrative image)	HOSE200