## LT ecocool energy efficient Refrigerated/heated circulating baths

A new range of innovative, eco-friendly, refrigerated heated circulating baths offering significant running cost savings whilst delivering powerful cooling. Consisting of two models, the LT ecocool range is supplied assembled as ready to use kits, complete with accessory hosing\*, clips and connectors as standard.

- Choice of two models, temperature range -25°C to 150°C+ (model dependent)
- Industry leading 4 year warranty with Grant renowned service and support, no registration required
- Active cooling through the whole temperature range
- True energy saving of up to 80% against standard compressor units







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



## **Applications:**

- · Pharmaceutical mini pilot plant reactors
- Education rotary evaporator cooling, replacement of running tap water cooling, 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
- High temperature cooling active up to 150°C

## Refrigerated/heated circulating baths » Models, options and accessories

LT ecocool refrigeration range – Models and specifications							
	LT ecocool 100	LT ecocool 150					
	h: 640mm d: 430mm w: 245mm weight: 29kg	h: 640mm d: 430mm w: 245mm weight: 29kg					
Temperature range °C	-20 to 100	-25 to 150					
Temperature stability ±°C	0.05	0.02					
Flow rate (max) L/min	17	14 - 22 (adjustable)					
Pump pressure (max) mbar	250	530					
Tank volume L	5	6					
Working Area (d x w) mm	118 x 154						
Min/Max liquid level mm	85/145	130/145					
Calibration points	2	5					
Cooling power (typical) @ 20°C W	240	385					
@ 0°C W	200	205					
@ -10°C W	100	105					
@ -20°C W	30	60					
Programs	-	1 x 30 segments Labwise <sup>TM</sup> required					
Communication interface	<del>-</del>	USB					
Temperature probe socket	-	6 pin mini DIN					
Display	4 digit LED	Full colour QVGA TFT					
Languages	-	EN, FR, DE, IT, ES					
Timer	1 min to 99 hrs 59 mins						
Temperature presets	3						
Alarms	High	High and low					
Electrical power (max) W	2160/2070 (60/50 Hz)	2160/2070 (60/50 Hz) 2280/2760 (50-60 Hz)					
Safety 120V/230V	Adjustable over temperature cut-out						
Ready to use kits	Assembled and supplied with standard tubing, insulation, clips and connectors						

## Refrigerated/heated circulating baths » Models, options and accessories

Options and accessories						
Labwise <sup>TM</sup> PC software (optional)						
Allows two-way communication for status display, programming and data capture (see page 3.1. for more information). USB cable provided		-				
External probes						
PEP plastic probe SEP stainless steel probe		- -	•	•		
Vertical turbine pumps (d	optional) - when pump is fitted, avai	lable working area is reduced.				
Low noise, compact desig connections and special li 12.7 mm.  VTP1-LT maximum pressure maximum flow  VTP2-LT maximum pressure maximum flow	n. Supplied with pipe d for fitting to tank, pipe bore 1000 mbar 9 L/min 1650 mbar 12 L/min	<b>4</b>	Required only where application demands a higher pressure than that delivered by the internal pump to maintain flow.  Note: The optional VTP pumps will transfer additional heat to the baths and reduce the net cooling power of the refrigeration unit. The above figures must be taken into consideration when choosing the refrigeration unit. when ordering a VTP pump, please specify which refrigeration base unit it is to be used with.  Note: Other sizes of heat exchange coil can be made to your specification, contact Grant for further information.			
Heat exchange coil						
CW5 Other sizes of heat exchange coil can be made to your specification, contact us for further information			Temperature range: 2°C above the temperature of the coolant Coil Øxl: 77x55mm Pipe bore inlet/outlet: 7mm			
Hose Kits						
HOSE100 General purpose hose kit: -40°C to 100°C HOSE200 High temperature hose kit: -50°C to 200°C			Hose kit 2 x 2m, assembled with Optima <sup>™</sup> pump outlet plate and simple hose clips, no tools required.			

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		°C	-	-	2°C above coolant temperature		
Coil Øxl		mm	-	-	77 x 55		