CL, BJ Технические характеристики

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Recirculating Chillers



Stand-alone closed circulators providing powerful, accurately controlled cooling for analytical techniques and instruments where an optimum operating temperature is required. In addition, RC1400G can be used as heated circulators.

- Precise temperature control
- Low coolant consumption*
- Settable high and low alarm levels with lamp and buzzer
- Over/under temperature cut-outs
- Flow fail device cuts power if no liquid in system
- Digital temperature display

*Use: Water for range +5 to +60°C Water/glycol mixture for -10 to +5°C

Recirculating Chillers

As specified. Mounted on lockable wheels. For 220-240V 50Hz single phase supplies

CL110-25 Model RC1400G **CL110-30** Model RC3000G

Catalogue No		CL110-25	CL110-30
Model		RC1400G	RC3000G [†]
Temperature range	°C	-10 to +60	-10 to +60
Typical cooling power at 20°	C W	1100	3000
Heater power	kW	1.50	†
Stability at 20°C (DIN58966)			
(using water)	±°C	0.25	0.5**
Maximum liquid flowrate	litres/minute	15	15
Pump head pressure			
at 1 litre/minute	bar	0.62	1.60
Dimensions D	mm	630	840
W	mm	380	490
Н	mm	590	640
Weight	kg	53	88
Inlet/outlet connections	mm	9.5 diameter — both m	nodels
Reservoir capacity	litres	2.5	1.1
Operational ambient			
temperature range	°C	+5 to +35 — both mod	els
EMC emissions	class	Α	В
Supply requirements		220-240V 50Hz single p	phase supplies — both models

[†]Note: The RC3000G has no heater and therefore is designed for cooling applications only. It can control to +60°C where the temperature of the exothermic reaction or process is above +60°C; this is achieved by switching the cooling on and off.

*With 10 litres of water in the system. **With 25 litres of water in the system.

Accessories

Bypass RC BYP

Ensures that the flow through the chiller is always at least 1 litre/minute so that the chillers' flow-fail device does not engage. This maintains temperature control and system integrity if narrow tubing or small cooling cells are used in an external circuit.

CL110-85 RC BYP

Pressure gauge RC PR

Indicates output pressure from the chiller.

CL110-89 RC PR

CL110-93 PRES Priming reservoir



Refrigeration Units, LT ecocool



Benchtop refrigeration units with built-in thermostatic controllers, stainless steel tanks and pumps providing a source of temperature controlled, refrigerated liquid for cooling applications, or as low temperature baths.

- Choice of model ranges:-
 - -20 to +100°C or -25 to +150°C
 - Tank volumes: 5 or 6 litres
- Active cooling throughout the whole temperature range
- High power (up to 500W) cooling available if required
- Controller includes digital display of set/actual temperature, three temperature pre-sets, 1 minute to 99 hour 59 minute timer and high (and low – CL120-70 only) temperature alarm settings
- "Eco" mode operation provides up to 80% energy saving compared to standard chillers with compressor on/off modes
- High pressure pumping up to 2 bar
- Adjustable overtemperature cut-out
- Model LT ecocool 150 additionally has a USB interfaces for remote control via the user's computer using accessory Labwise software and DIN sockets for connection to external temperature probes

	61430.45	61420.70
	*	CL120-70
	LT ecocool 100	LT ecocool 150
°C	-20 to +100	-25 to +150
W	250	350
±°C	0.05	0.02
res/minute	17	14 to 22 (adjustable)
mbar	250	530
	2	5
	-	1 (30)
	3	3
	High	High and low
	-	USB
	-	6-pin mini DIN
	LED	Colour QVGA TFT
mm	430	430
mm	240	245
mm	640	640
kg	28	28
mm	Super seal, 9.5 diameter tubing ferrule, M16 of	or BSP— both models
litres	5	6
na cs		<u> </u>
	±°C es/minute mbar mm mm mm mm kg mm	W 250 ±°C 0.05 es/minute 17 mbar 250 2 - - 3 High - - - LED mm 430 mm 240 mm 640 kg 28 mm Super seal, 9.5 diameter tubing ferrule, M16 do



CL120-45

Refrigeration units, LT ecocool

As described. Supplied with built-in controller and pump, stainless steel tank, lid and connectors and adapters for super seal, tubing ferrule, M16 or BSP connections. For 230V 50Hz single phase supplies.

CL120-45 LT ecocool 100 **CL120-70** LT ecocool 150

Accessories

Labwise software

Allows remote set-up and programming of the thermostat controllers from the users' PC, real-time temperature/time profiles, graphical representation of process to be displayed, logging of profiles and programme storage to disk. Requires WindowsTM software. Supplied with connection cable.

BJ189-75 Labwise software

Remote Temperature Probes

Pt1000 external temperature probes for use with thermostat controllers in remote heating/cooling applications. With 3 metres of cable.

BJ242-20 TXPEP, fast response, nylon, 100mm x 4.5mm length x diameter TXSEP, robust, stainless steel, 125mm x 5mm length x diameter

Racks

If used as conventional low temperature baths the refrigeration unit tanks will accept 1 x QR series rack - see BJ188-10 to BJ188-23.

Refrigeration Units

▼PolyScience®

Integrated refrigeration units with built-in thermostatic controllers and insulated, stainless steel bath tanks to ensure economical operation with high accuracy and stability.

- Choice of four thermostatic controller levels; MX, Standard Digital (SD), Advanced Digital (AD) and Advanced programmable (AP)
- Temperature ranges from -40°C up to +200°C, dependent on the controller chosen and bath fluid chosen
- All controllers feature pumped, closed-circuit circulation with AD and AP units additionally offering open-circuit circulation with return suction and remote monitoring/control using accessory Pt100 temperature probes
- Safety features include high/low temperature limits with alarms and indicators, low liquid level safety cut-out and power outage reset

Thermostatic Controllers

Ref.		MX	SD	AD	AP
Maximum temperature,	°C	+135 (MX controller), +200	0 (rest of range)		
Stability	±°C	0.07	0.04	0.01	0.005
Display (backlit), resolution	°C	LCD, 0.1	LCD, 0.1	LCD, 0.01	Colour LCD, 0.01
Pump max. pressure (water)	mbar	120	200	250	250
Max. pump flow rate	l/min.	11.9	10.2	16.7	16.7
Max. suction flow rate	l/min.	_		12.2	12.2
Pump speed		single	two	variable	variable
Temperature calibration point	S	1	1	1	10
Programming capability?		_	_	_	Yes
Timer?		_	_	Yes	Yes
Interfaces		_	RS232	RS232/RS485, USB, ethernet - be	oth models
Inlet/outlet tubing bores	mm	13 - all models			
Supply requirement		240V 50Hz single phase - a	all models		

Catalogue no.,	MX controller	CL123-05	_	CL123-10
	SD controller	CL123-20	_	CL123-25
	AD controller	CL123-30	CL123-35	CL123-40
	AP controller	CL123-45	CL123-50	CL123-55
Minimum temperat	ture °C	-20	-40	-30
Refrigerant		R134A	R404A	R404A
Tank capacity	litres	7	7	15
Working access Lx	(W x D, mm	157 x 142 x 127	157 x 142 x 127	212 x 276 x 140
Inlet/outlet tubing	bores mm	13 - all models		
Overall L x W x H,	mm	541 x 221 x 645	541 x 221 x 617	569 x 368 x 683
Weight,	kg	38.1	40.8	53.5

Other ranges are available - details on request

Refrigeration Units, Polyscience

As described. For 240V 50Hz single phase supplies.

CL123-05 MX07R-20, 7 litres, -20 to +135°C CL123-10 MX15R-30, 15 litres, -30 to +135°C CL123-20 SD07R-20, 7 litres, -20 to +200°C

CL123-25 SD15R-30, 15 litres, -30 to +200°C **CL123-30** AD07R-20, 7 litres, -20 to +200°C

CL123-35 AD07R-40, 7 litres, -40 to +200°C **CL123-40** AD15R-30, 15 litres, -30 to +200°C

CL123-45 AP07R-20, 7 litres, -20 to +200°C **CL123-50** AP07R-40, 7 litres, -40 to +200°C

CL123-55 AP15R-30, 15 litres, -30 to +200°C

Bath fluids, PolyScience

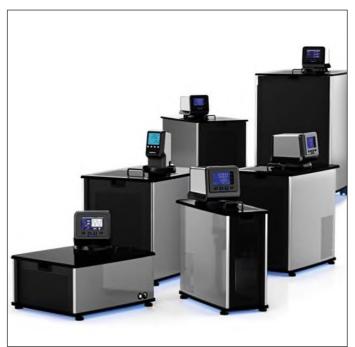
Supplied in packs of one gallon (3.8 litres).

BJ464-03 -50 to 100°C, viscosity 3cSt at 25°C -50 to 150°C, viscosity 50cSt at 25°C 100 to 200°C, viscosity 125cSt at 25°C 150 to 250°C, viscosity 500cSt at 25°C 150 to 250°C, viscosity 500cSt at 25°C

Accessory Pt100 Temperature Probes

For use with AD/AP controllers only when monitoring/controlling the contents of remotely heated vessels in open-circuit operation.

BJ443-92 Pt100 probe, 0.6m cable Pt100 probe, 2m cable Pt100 probe, 8m cable



Refrigerated Circulator Baths

Zestuart

- Choice of model:
 - SRC4, benchtop with compact footprint
 - SRC14, larger capacity, floor-standing unit mounted on castors for mobility
- Integral digital controller, display and overtemperature cut-out
- Tank drain for easy emptying and cleaning

Catalogue No.		CL140-15	CL140-25
Model		SRC4	SRC14
Range	°C	-20 to +30	-20 to +30
Stability	±°C	2	2
Tank capacity	litres	3	14
Pump capacity (zero head)	litres/minute	9	18
Extraction rate at	0°C W	400	1000
Overall W x D x H	l mm	232 x 497 x 490	354 x 384 x 851
Weight, net	kg	25	41

Refrigerated Circulator Baths, Stuart

As specified. With integral controller, overtemperature cut-out and tubing inlet/outlet ferrules for 9mm bore tubing. For 230V 50Hz single phase supplies.

CL140-15 SRC4 **CL140-25** SRC14



Catalogue No.		CL160-07
Model		RB5A/TE10D
Range	°C	-20 to +100
Stability	±°C	0.01
Thermoregulator		TE10D digital
Tank capacity	litres	7
Pump capacity 145	litres/minute (zero head)	10 mBar
Extraction rate at	0°C W	145
Power rating	kW	1
Overall W x D x H	mm	235 x 430 x 566
Weight, net	kg	31

Refrigerated Circulator Bath, RB5A

As specified. With integral controller which includes an overtemperature cut-out. For 230V 50/60Hz single phase supplies.

CL160-07 RB5A/TE10D digital







CL140-15 CL140-25 CL160-07

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