

Optima™ range

3
year warranty

- INTUITIVE** › Supreme usability, easy to use and set up
- PRECISE** › Outstanding temperature control
- VERSATILE** › A complete range - heating circulators, heated and refrigerated circulating baths - cover basic to sophisticated needs
- PRACTICAL** › Excellent working area
- RELIABLE** › Robust design. Built and tested in Grant's UK manufacturing facility

Choose your heating circulator:

T100 amb. +5 to 100°C

TC120 amb. +5 to 120°C

TX150 amb. +5 to 150°C

TXF200 amb. +5 to 200°C



Combine with:

Refrigeration units

Stainless steel or plastic tanks



Optima™ general purpose heating circulators - T100 and TC120

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- INTUITIVE** › Rotary dial and function key controls
- CLEAR** › Highly visible LED temperature display
- INTEGRATED** › TC120 integrated pump for external circulation
- RELIABLE** › Intelligent design, robust construction
- PRECISION** › Excellent temperature control
- SAFE** › Fixed and adjustable over temperature cut-out, clear alerts and alarms



Optima™ advanced heating circulators - TX150 and TXF200




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- PRECISE** › Outstanding temperature control
- INTUITIVE** › Icon driven, language independent, full colour screen
- RELIABLE** › Smart design and robust construction
- EASY** › Simple to create profiles/programs
- HIGH SPEC** › USB/RS232, 5pt calibration, external probe socket, relay



Specifications

	T100	TC120	TX150	TXF200
				
Temperature range	ambient +5 to 100°C	ambient +5 to 120°C	ambient +5 to 150°C	ambient +5 to 200°C
Settable temperature range	0 to 100°C	-20 to 120°C*	-50 to 150°C*	-50 to 200°C*
Stability (DIN 12876-3 @70 °C)	±0.05°C	±0.05°C	±0.01°C	±0.01°C
Integral pump water flow / pump pressure	-	16L/min 210mBar	18L/min 310mBar	22L/min 530mBar
Programmable	-	-	1 program / 30 segments	10 programs / 100 segments

*Cooling accessory required

T-Clamp for flexibility

Attach a thermostat to any vertical sided vessel with a maximum wall thickness of 35 mm rectangular tanks and 30 mm circular tanks, capacity up to 50L



ORDER CODE EXAMPLE: T100 or T100T (with clamp)

Optima™ heated circulating baths





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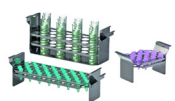



- EFFICIENT** › Efficient circulation for excellent temperature control
- PRACTICAL** › Excellent working area - gabled, hinged lid for tall vessels
- VERSATILE** › Modular format - combine a thermostat with a stainless steel or plastic bath
- RELIABLE** › Intelligent design, robust construction
- CONVENIENT** › Drain tap for emptying, raised feet for repositioning, dual position mounting thermostat



Specifications

	Stainless steel tanks					Plastic tanks		
	ST5	ST12	ST18	ST26	ST38	P5	P12	P18
								
Tank capacity	5L	12L	18L	26L	38L	5L	12L	18L
Temperature range	≤ 200°C	≤ 200°C	≤ 200°C	≤ 200°C	≤ 200°C	≤ 99°C	≤ 99°C	≤ 99°C
Drain tap	-	•	•	•	•	-	-	-
Working area l x w / mm	150 x 150	205 x 300	385 x 300	385 x 300	575 x 300	120 x 150	210 x 280	280 x 325
Outer dimensions l x w x h / mm	330 x 280 x 200	360 x 330 x 200	540 x 330 x 200	540 x 330 x 255	730 x 330 x 255	240 x 330 x 180	415 x 350 x 180	600 x 365 x 180

Accessories (full range available on website)

<p>Lids A choice of lids to help reduce evaporation/heat loss and avoid sample contamination. Recommended when operating at 60°C and above</p> 	<p>Stainless Steel Lid Recommended when bath is being used constantly with water above 90°C</p> 	<p>Polypropylene Spheres Alternative to lids - helps reduce evaporation and heat loss. Recommended when operating at 60°C and above</p> 	<p>Racks Racks for micro-tubes from 0.5ml to 1.5ml and tubes from Ø10mm to Ø30mm to optimise the use of available bath capacity</p> 	<p>Raised Shelves Allows shallow vessels to be accommodated</p> 	<p>Refrigerated Cooling Coils C1G to allow systems to operate from 0 to 40°C and C2G for operation from -15 to 40°C</p> 	<p>Heat Exchange Coil (CW5) Attach to a supply of cooling tap water or refrigerated circulator for operation 2°C above coolant temperature</p> 
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Applications

Media tempering, thawing & incubating samples, water analysis techniques, material testing, temperature probe calibration, thermostat calibration, temperature control of external equipment/vessels

ORDER CODE EXAMPLE: T100-ST12 (T100 thermostat with ST12 tank)