

Optima™ range

Heating circulators, heated and refrigerated circulating baths

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 (VWR 89260-838)
amb. +5 to 100°C

TC120 (VWR 89260-840)
amb. +5 to 120°C

TX150 (VWR 89260-842)
amb. +5 to 150°C

TXF200 (VWR 89260-844)
amb. +5 to 200°C



Combine with:

Refrigeration units

Stainless steel or plastic tanks



Optima™ general purpose heating circulators T100 (VWR 89260-838) and TC120 (VWR 89260-840)

3

year warranty

- 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 (VWR 89260-842) and TXF200 (VWR 89260-844)

3

year warranty

- 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 
VWR Catalog number	89260-838	89260-840	89260-842	89260-844
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 with Labwise™	±0.01°C
Integral pump water flow / pump pressure	-	16L/min 210mBar	18L/min 310mBar	22L/min 530mBar
Programmable	-	-	1 program / 30 segments via Labwise™	10 programs / 100 segments

*Cooling accessory required

T-Clamp (VWR 89260-854) 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











Optima™ heated circulating baths

3
year warranty




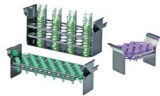



- EFFICIENT** › Efficient circulation for excellent temperature control
- PRACTICAL** › Excellent working area - gabled, hinged lid for tall vessels
- VERSATILE** › Modular format - combine a thermostat with a stainless steel or plastic bath
- RELIABLE** › Intelligent design, robust construction
- CONVENIENT** › 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
								
VWR catalogue numbers	89260-856	89260-858	89260-860	89260-862	89260-864	97025-496	47727-836	47727-838
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 vwr.com)

<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 microtubes 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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VWR part codes for heated circulating baths (thermostat with a tank)

	ST5	ST12	ST18	ST26	ST38	P5	P12	P18
T100	10029-444	10029-446	10029-448	10029-450	10029-452	10029-438	10029-440	10029-442
TC120	10029-460	10029-462	10029-464	10029-466	10029-468	10029-454	10029-456	10029-458
TX150	10029-476	10029-478	10029-480	10029-482	10029-484	10029-470	10029-472	10029-474
TXF200	10029-492	10029-494	10029-496	10029-498	10029-500	10029-486	10029-488	10029-490

Applications

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

Optima™ refrigerated baths and circulators

3
year warranty

- POWERFUL** › Excellent cooling performance
- RELIABLE** › Robust, premium materials and construction
- SIMPLE** › Easy to set up, use and maintain
- QUIET** › Quiet operation
- PRECISE** › Precise temperature control
- QUALITY** › Designed, manufactured and tested in Grant's manufacturing facility in the UK



Specifications

	R1	R2	R3	R4	LTC2	LTC4
VWR Catalog number	10067-590 (T100-R1) 10067-668 (TC120-R1) 10067-694 (TX150-R1) 10067-654 (TXF200-R1)	10067-592 (T100-R2) 10067-682 (TC120-R2) 10067-648 (TX150-R2) 10067-656 (TXF200-R2)	10067-650 (TX150-R3) 10067-658 (TXF200-R3)	10067-646 (T100-R4) 10067-684 (TC120-R4) 10067-652 (TX150-R4) 10067-660 (TXF200-R4)	89260-874 (TC120-R2)	89260-876 (TX150-R4)
Effective operating temperature range (Refrigeration unit and thermostat)	T100 0 to 100°C TC120 -20 to 100°C TX150 -20 to 100°C TXF200 -20 to 100°C	T100 0 to 100°C TC120 -20 to 100°C TX150 -20 to 100°C TXF200 -20 to 100°C	TX150 -30 to 100°C TXF200 -30 to 100°C	T100 0 to 100°C TC120 -20 to 100°C TX150 -30 to 100°C TXF200 -30 to 100°C	-20 to 100°C	-30 to 100°C
Capacity	5L	5L	5L	20L	5L	20L
Working area l x w / mm	110 x 145	110 x 145	110 x 145	230 x 305	110 x 145	230 x 305
Drain tap	-	•	•	•	•	•

Ready to use refrigeration systems

4
year warranty



LTC2

89260-874 (TC120-R2)

The TC120-R2 is available ready assembled with the thermostat mounted on the refrigerator and supplied with insulated tubing* and clips to form a ready-to-use system.

Note: Insulated tubing temperature range -40°C to 80°C.



LTC4

89260-876 (TX150-R4)

The TX150-R4 programmable refrigerated circulator is supplied with a thermostat, refrigerator, insulated tubing* and clips to form a ready-to-use system. Self assembly required.

Note: Insulated tubing temperature range -40°C to 80°C.

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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