

Heated circulating baths » T100-P12 budget showcase

showcase 3 – budget example

Model T100-P12\* range ambient +5°C to 99°C, stability ±0.05°C

Economy model with digital thermostatic control unit and plastic tank for straightforward applications requiring accurate temperature control.

- Optima™ digital thermostat (T100) for accurate temperature control
- Cooling/heating range ambient +5°C to 99°C
- Stability ±0.05°C
- 3 programmable temperature presets
- Low liquid protection and fixed over temperature cut-out



T100-P12 model shown

**Visual alarm** – alerts you when your attention is required

**Simple-to-use rotary dial and two function keys** for quick temperature setting and menu navigation

**Optional removable flat lid** to minimise evaporation of fluid and avoid contamination of samples

Choice of **120 V and 230 V models**

**User calibration facility** for optimum accuracy at the required operating temperature

**Low liquid protection and fixed over temperature cut-out**

Operating setpoint plus **3 adjustable preset temperatures** for convenience

**Wide range of optional accessories** for different applications, including test tube racks and raised shelves

**Robust plastic construction**, double-walled for rigidity, easy to clean

\* see summary table on p. 1.6 for accessories and for other models utilising T100 control units and/or plastic tanks

- Applications:**
- Clinical, Microbiology and Pathology labs - media tempering, thawing & incubating samples
  - Teaching labs, higher education/universities - practical demonstration/experimentation, sample preparation

## Heated circulating baths » Models, options and accessories

### Heated circulating baths – models, options and accessories

Any of the four Grant Optima™ digital thermostats can be combined with any of the Grant stainless steel and plastic tanks. The colour-coded summary table shows you the temperature range of each combination. For more details of Grant Optima™ thermostats see, p 1.8

Key to symbols	Heating circulators			
	General purpose digital		Advanced digital	
	T100	TC120	TX150	TXF200
<ul style="list-style-type: none"> <li> fixed over temperature cutout</li> <li> adjustable over temperature cutout</li> <li> display</li> <li> audible alarm</li> <li> timer</li> <li> pump</li> <li> external probe</li> <li> USB + RS232</li> <li> 2 point recalibration</li> <li> relay</li> <li> visual alarm</li> <li> 5 point recalibration</li> <li> menu system</li> <li> program storage</li> <li> programmable</li> </ul>	 <p>h: 335mm d: 172 mm w: 120 mm 2.5 kg</p>	 <p>h: 335 mm d: 172 mm w: 120 mm 2.5 kg</p>	 <p>h: 345 mm d: 172 mm w: 120 mm 3 kg</p>	 <p>h: 345 mm d: 172 mm w: 120 mm 3 kg</p>

Tanks					
Capacity (L)	Outer tank dimensions	Working area (l x w)			
		Min/max liquid depths			
		Inner tank dimensions (l x w x h)			
		Overall dimensions incl. controller (l x w x h)			
<b>ST5 – 5 L</b> stainless steel 3 kg h: 200 mm l: 330 mm w: 180 mm	<ul style="list-style-type: none"> <li>150 x 150 mm</li> <li>85/140 mm</li> <li>300 x 150 x 150 mm</li> <li>330 x 180 x 395 mm</li> </ul>	T100-ST5 amb.+15 to 100°C	TC120-ST5 0 to 120°C	TX150-ST5 0 to 150°C	TXF200-ST5 0 to 200°C
<b>ST12 – 12 L</b> stainless steel 4.5 kg h: 200 mm l: 360 mm w: 330 mm	<ul style="list-style-type: none"> <li>205 x 300 mm</li> <li>85/140 mm</li> <li>325 x 300 x 150 mm</li> <li>360 x 330 x 395 mm</li> </ul>	T100-ST12 0 to 100°C	TC120-ST12 0 to 120°C	TX150-ST12 0 to 150°C	TXF200-ST12 0 to 200°C
<b>ST18 – 18 L</b> stainless steel 7 kg h: 200 mm l: 540 mm w: 330 mm	<ul style="list-style-type: none"> <li>385 x 300 mm</li> <li>75/130** mm</li> <li>505 x 300 x 150 mm</li> <li>540 x 330 x 395 mm</li> </ul>	T100-ST18 0 to 100°C	TC120-ST18 0 to 120°C	TX150-ST18 0 to 150°C	TXF200-ST18 0 to 200°C
<b>ST26 – 26 L</b> stainless steel 7.5 kg h: 255 mm l: 540 mm w: 330 mm	<ul style="list-style-type: none"> <li>385 x 300 mm</li> <li>125/180** mm</li> <li>505 x 300 x 200 mm</li> <li>540 x 330 x 405 mm</li> </ul>	T100-ST26 0 to 100°C	TC120-ST26 -15 to 120°C	TX150-ST26 -15 to 150°C	TXF200-ST26 -15 to 200°C
<b>ST38 – 38 L</b> stainless steel 11 kg h: 255 mm l: 730 mm w: 330 mm	<ul style="list-style-type: none"> <li>575 x 300 mm</li> <li>125/180** mm</li> <li>690 x 300 x 200 mm</li> <li>730 x 333 x 405 mm</li> </ul>	T100-ST38 0 to 100°C	TC120-ST38 -15 to 120°C	TX150-ST38 -15 to 150°C	TXF200-ST38 -15 to 200°C
<b>P5 – 5 L</b> plastic 2.5 kg h: 180 mm l: 240 mm w: 330 mm	<ul style="list-style-type: none"> <li>120 x 150 mm</li> <li>85/140 mm</li> <li>240 x 160 x 150 mm</li> <li>390 x 200 x 380 mm</li> </ul>	T100-P5 amb.+15 to 99°C	TC120-P5 amb.+15 to 99°C	TX150-P5 amb.+15 to 99°C	TXF200-P5 amb.+15 to 99°C
<b>P12 – 12 L</b> plastic 3.5 kg h: 180 mm l: 415 mm w: 350 mm	<ul style="list-style-type: none"> <li>210 x 280 mm</li> <li>85/140 mm</li> <li>325 x 280 x 150 mm</li> <li>415 x 350 x 380 mm</li> </ul>	T100-P12 amb.+5 to 99°C	TC120-P12 amb.+5 to 99°C	TX150-P12 amb.+5 to 99°C	TXF200-P12 amb.+5 to 99°C
<b>P18 – 18 L</b> plastic 5 kg h: 180 mm l: 600 mm w: 365 mm	<ul style="list-style-type: none"> <li>280 x 325 mm</li> <li>85/140 mm</li> <li>510 x 290 x 150 mm</li> <li>600 x 350 x 380 mm</li> </ul>	T100-P18 amb.+5 to 99°C	TC120-P18 amb.+5 to 99°C	TX150-P18 amb.+5 to 99°C	TXF200-P18 amb.+5 to 99°C

Note: operation at or below ambient temperatures requires accessory cooling or a refrigeration unit on page 2.6

### 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/RS232 cables provided	-	-		
<b>External probes</b> (optional) for monitoring and controlling temperature of remote loads				
<b>TXPEP</b> flexible plastic probe, 3m cable	-	-		
<b>TXSEP</b> stainless steel probe, 3m cable	-	-		
<b>Remote switching device</b> (optional)				
For switching appliances on and off (up to max. 8 Amps)	-	-	1	1
<b>Vertical turbine pumps</b> (optional)*				
Low noise, compact design. Supplied with pipe connections and special lid for fitting to tank, pipe bore 12.7 mm				
<b>VTP 1</b> max. pressure 1000 mbar max. flow 9 L/min  <b>VTP 2</b> max. pressure 1650 mbar max. flow 12 L/min	 	Required only where application demands a higher pressure than that delivered by the internal pump to maintain flow		

\* when pump is fitted, available working area is reduced \*\* maximum depth can be increased by 10 mm, by removing the circulation tray in 18, 26, 38 litre baths, with slight loss of performance