Showcase 2 – high specification example Model TXF200-ST26* range -15°C to 200°C**, stability ±0.01°C

High specification model with high performance digital thermostat and stainless steel tank for sophisticated applications requiring complex programming and/or ultra precise temperature control.

- Optima[™] high performance digital thermostat (TXF200) for ultra precise temperature control
- Temperature range -15°C to 200°C**
- Stability ±0.01°C
- Uniformity ±0.05°C
- Integral pump for external fluid circulation
- Full colour screen
- Easy to program via interface or remotely via PC / Laptop using Labwise[™] software
- · Key functions easily accessed via home screen icons

Full colour screen – clearly displaying actual and set temperatures, pump speed and clear status icons.

Intuitive screen icons and menus – allow fast and accurate setup.

Socket for optional external probe – allows remote temperature control.

Five-point user calibration facility for optimum accuracy.

Countdown timer with audible alarm alerts when your attention is required.

Drain tap allows easy emptying

Raised feet – for carrying / repositioning and retort stand access.



* see summary table on page 1.6–1.7 for accessories and other models utilising the Grant high performance digital control units.
 ** operation below ambient temperature requires optional accessory cooling.

Applications:

- Industrial labs thermostat calibration, haze analysis (brewing), temperature probe calibration and material testing
 - University research temperature control of external equipment such as spectrophotometers and refractometers. Circulation of temperature control fluid to jacketed vessels



Memory capacity for 10 programs containing 100 segments.

Program via intuitive user interface or connect to PC/ laptop to program via Labwise™ software.

The programming interface includes set target temperature - a choice of time to target temperature or temperature ramp speed. An additional programmable relay for on/off control of ancillary equipment.

High and low temperature alarm settings – visual, audible and programmable.

Powerful integral pump for external fluid circulation – variable speed, 22L/min, 530mbar.

Optional insulated gabled and removable hinged lid designed to improve energy efficiency and prevent evaporation.



Accessory cooling systems allow operation at or below ambient temperature. See page 1.9 for details.

Heated circulating baths » Model options and accessories

Heating circulating baths - models, options and accessories										
Any of the four Grant Optima TM 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 TM heated circulator see, page 1.8.										
Key to symbols		Heating circulators								
adjustable over temperature cutout		General purpose digital		Advanced digital						
 aujustable over tempe display (Prelay visual alarm 5 point recalibration enhanced menu system program storage programmable 	T100	TC120	TX150	TXF200					
audible alarm timer pump external probe USB + RS232 2 point recalibration		h: 333mm d: 172mm w: 120mm weight: 2.1kg	h: 333mm d: 172mm w: 141mm weight: 2.3kg	h: 342mm d: 172mm w: 141mm weight: 2.6kg	h: 342mm d: 172mm w: 141mm weight: 2.6kg					
Heating circulating baths - models, options and accessories										
Capacity (L) Outer tank dimensions	 working area (d x w) Min/max liquid depths Inner tank dimensions (h x d x w) 	२ ७ 2 =	➡ ●2Â ∎ 0 ≧	> ●	੨ @ 2 = ਚ () 5 = ਵਿੰਦੇ ਦ ਟ					
ST5 - 5L stainless steel h: 215mm d: 335mm w: 187mm weight: 2.9kg	• 150 x 150mm • 85/140mm • 300 x 150 x 150mm	T100-ST5 amb.+15°C to 100°C	TC120-ST5 0°C to 120°C*	TX150-ST5 0°C to 150°C*	TXF200-ST5 0°C to 200°C*					
ST12 - 12L stainless steel h: 215mm d: 332mm w: 360mm weight: 4.5kg	• 205 x 300mm • 85/140mm • 325 x 300 x 150mm	T100-ST12 0°C to 100°C*	TC120-ST12 0°C to 120°C*	TX150-ST12 0°C to 150°C*	TXF200-ST12 0°C to 200°C*					
ST18 - 18L stainless steel h: 215mm d: 545mm w: 340mm weight: 7.3kg	• 385 x 300mm • 75/130**mm • 505 x 300 x 150mm	T100-ST18 0°C to 100°C*	TC120-ST18 0°C to 120°C*	TX150-ST18 0°C to 150°C*	TXF200-ST18 0°C to 200°C*					
ST26 - 26L stainless steel h: 270mm d: 535mm w: 340mm weight: 7.7kg	• 385 x 300mm • 125/180**mm • 505 x 300 x 200mm	T100-ST26 0°C to 100°C*	TC120-ST26 -15°C to 120°C*	TX150-ST26 -15°C to 150°C*	TXF200-ST26 -15°C to 200°C*					
ST38 - 38L stainless steel h: 260mm d: 733mm w: 338mm weight: 11.9kg	• 575 x 300mm • 125/180**mm • 690 x 300 x 200mm	T100-ST38 0°C to 100°C*	TC120-ST38 -15°C to 120°C*	TX150-ST38 -15℃ to 150℃*	TXF200-ST38 -15°C to 200°C*					
P5 - 5L plastic h: 180mm d: 323mm w: 220mm weight: 2.2kg	• 120 x 150mm • 85/140mm • 240 x 160 x 155mm	T100-P5 amb.+15°C to 99°C	TC120-P5 amb.+15°C to 99°C	TX150-P5 amb.+15°C to 99°C	TXF200-P5 amb.+15°C to 99°C					
P12 - 12L plastic h: 180mm d: 412mm w: 340mm weight: 3.4kg	• 210 x 280mm • 85/140mm • 325 x 280 x 155mm	T100-P12 amb.+5℃ to 99℃	TC120-P12 amb.+5°C to 99°C	TX150-P12 amb.+5°C to 99°C	TXF200-P12 amb.+5℃ to 99℃					
P18 - 18L plastic h: 180mm d: 589mm w: 340mm weight: 5.1kg	• 375 x 280mm • 85/140mm • 510 x 290 x 155mm	T100-P18 amb.+5°C to 99°C	TC120-P18 amb.+5°C to 99°C	TX150-P18 amb.+5℃ to 99℃	TXF200-P18 amb.+5℃ to 99℃					

*Note: Operation at or below ambient temperatures requires optional accessory cooling (page 1.7) or a refrigeration unit (section 2.1)

Options and accessories										
Labwise TM PC software (optional)										
Allows two-way communication for status display, programming and data capture (see page. 3.1 for more information) USB/RS232 cables provided.		-	-							
External probes (optional) for monitoring and controlling temperature of remote loads										
TXPEP flexible plastic probe, 3m cable		-	-	•	•					
TXSEP stainless steel probe, 3m cable		-	-	•	•					
Remote switching device (optional)										
For switching appliances on and off (up to max. 8 Amps)		-	-	1	1					
Vertical turbine pumps (optional)*										
Low noise, compact design. Supplied with pipe connections and special lid for fitting to tank, pipe bore 12.7mm.										
VTP 1 Max. pressure Max. flow	1000 mbar 9 L/min	-	Required only where application demands a higher pressure than that delivered by the internal pump to maintain flow.							
VTP 1 Max. pressure Max. flow	1650 mbar 12 L/min	-								

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