

The thermostats

There are five models, each available in two versions. Without clamp for use with Grant S stainless steel and P plastic tanks or with clamp, for use with almost any type of vessel.

Temperature range

The temperature range is dependent on the type of bath used: see the specification table for details. Accessory cooling is required around and below ambient temperature.

Analogue control for simple, effective performance, model GA100

- ambient + 5°C to 99°C
- setting dial with analogue scale, resolution better than 1°C (20 to 80°C)
- a reference thermometer is required (not supplied) for accurate temperature setting
- dual position fitting in S tanks for convenient access
- stirred circulation within the tank for good temperature stability and uniformity
- low liquid protection by float switch
- visual alarm

dual position fitting in S tanks for convenient access



GA100-P12

Specification comparison table

		GA100	GD100	GD120	GR150	GP200
Temperature range ¹ – without tank	°C	20 to 99	0 to 100 ¹	0 to 120 ¹	-50 to 150	-50 to 200 ¹
Temperature range ² using S tanks	°C	20 to 99	0 to 100 ¹	0 to 120 ¹	0 to 150 (5/12/18L) -15 to 200 ¹ (26/38L)	0 to 200 ¹ (5/12/18L) -15 to 200 ¹ (26/38L)
Temperature range ² using P tanks	°C	amb + 5 to 99	amb + 5 to 99	amb + 5 to 99	amb + 5 to 99	amb + 5 to 99
Stability, S tanks, (Din 58966) @37°C	±°C	0.1	0.02	0.02	0.005	0.005
Uniformity, S tanks @37°C	±°C	0.1	0.05	0.05	0.02	0.02
Setting resolution		better than 1	0.1	0.1	0.1 (0.01 using Labwise)	0.1 (0.01 using Labwise)
Display		none	4 digit 13mm LED	4 digit 13mm LED	4 digit 13mm LED 2 line 16 character LCD	4 digit 13mm LED 2 line 16 character LCD
Display resolution	°C	n/a	0.1	0.1	0.01 (LCD)	0.01 (LCD)
No. stored temperature values		1	4	4	4	4
Two point re-calibration		n/a	yes	yes	yes	yes
Offset adjustment		no	no	no	yes	yes
External probe		none	none	none	PT1000	PT1000
RS232		no	no	no	yes	yes
Programmable		no	no	no	remote via PC	remote via PC/direct
No. stored programs		none	none	none	1 x 30 segment	5 x 30 segment
Relays		none	none	none	1	2
Heater power	220-240V kW	1.4	1.4	1.4	2	2
	110-115V kW	1.3	1.3	1.3	1.3	1.3
Pump	max pressure mbar	no pump	no pump	310	310	530
(water)	max. flow l/min	no pump	no pump	17	17	21 adj. flow rate
Pipe bore	inlet/outlet mm	n/a	n/a	6, 11	6, 11	6, 11
Safety	overtemperature	no	no	adjustable cut-out	adjustable cut-out	adjustable cut-out
	level - float switch	yes	yes	yes	yes	yes
Electrical supply	V	220-240 or 110-120	220-240 or 110-120	220-240 or 110-120	220-240 or 110-120	220-240 or 110-120
	Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Overall dims. excl. clamp	w/d/h mm	115/145/315	115/145/315	115/145/315	115/145/315	115/145/315
Height above tank rim	mm	180	180	180	180	180
Depth below tank rim	mm	135	135	135	135	135

¹ Minimum operating temperature without accessory cooling is room temperature plus 5°C, except in SS tank, which is room temperature plus 15°C; achievable temperature range depends on the immersion cooler selected, see page 7 for details.

² A lid or layer of polypropylene spheres must be used when operating between 60°C and 100°C, and is recommended for use below room temperature. Above 100°C, a lid must always be used.



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