

Baths, water, Optima series



TECHNICAL SPECIFICATIONS

Thermostats

	12233/01	12233/02	12233/03	12233/04	12233/05
Control Units	GA 100	GD100	GD120	GR150	GP200
Temperature setting range, °C	0 to 100	0 to 100	-20 to 120	-50 to 150	-50 to 200
Setting resolution, °C using labwise	<1	0.1	0.1	0.1	0.1
Display	none	4 digit LED	4 digit LED	4 digit LED 2 line LCD	4 digit LED 2 line LCD
Display resolution, °C	n/a	0.1	0.1	0.01 (LCD)	0.01 (LCD)
No. stored temp. values	1	4	4	4	4
Two point re-calibration	no	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					
240V kW	1.4	1.4	1.4	2	2
115V kW	1.3	1.3	1.3	1.3	1.3
Pump L/min	n/a	n/a	17	17	21 adj. flow rate
mbar	n/a	n/a	270	270	460
Safety	float switch	float switch	float switch adjustable cut-out high	float switch adjustable cut-out high and low	float switch adjustable cut-out high and low
Alarms	no	no			
Electrical power					
220/240V kW	1.5 (50/60Hz)	1.5 (50/60Hz)	1.5 (50Hz)	2.2 (50Hz)	2.2 (50/60Hz)
110/120V kW	1.4 (50/60Hz)	1.4 (50/60Hz)	1.4 (60Hz)	1.4 (60Hz)	1.4 (50/60Hz)
Overall dimensions excl.. clamp (w x d x h), mm	115 x 145 x 315	115 x 145 x 315	115 x 145 x 315	115 x 145 x 315	115 x 145 x 315
Height above tank rim, mm	180	180	180	180	180
Depth below tank rim, mm	135	135	135	135	135