

Baths

Open Tank Water Baths



A wide-ranging family of combined thermostatic controllers and bath tanks with high-performance features and modern components to ensure reliable operation with premium accuracy and stability.

- ◆ Choice of four thermostatic controller levels; MX, Standard Digital (SD), Advanced Digital (AD) and Advanced programmable (AP)
- ◆ Maximum temperature up to +200°C, dependent on the controller, bath tank and bath fluid chosen
- ◆ All controllers feature pumped, closed-circuit circulation with AD and AP units additionally offering open-circuit circulation with return suction and remote monitoring/control using accessory Pt100 temperature probes
- ◆ Safety features include high/low temperature limits with alarms and indicators, low liquid level safety cut-out and power outage reset
- ◆ Choice of polycarbonate or stainless steel tanks with recessed carrying handles and supplied with flat lids. All stainless steel tanks and polycarbonate tanks greater than 14 litres also have built-in drain taps

Thermostatic Controllers

Ref.		MX	SD	AD	AP
<i>Operating ranges[†],</i>					
	<i>polycarbonate tanks</i>	°C Ambient +10 to +85 – all models			
	<i>stainless steel tanks</i>	°C Ambient +10 to +135 (MX controller), +150 (rest of range)			
<i>Stability</i>	±°C	0.07	0.04	0.01	0.005
<i>Display (backlit), resolution</i>	°C	LCD, 0.1	LCD, 0.1	LCD, 0.01	Colour LCD, 0.01
<i>Pump max. pressure (water)</i>	mbar	120	200	250	250
<i>Max. pump flow rate</i>	l/min.	11.9	10.2	16.7	16.7
<i>Max. suction flow rate</i>	l/min.	—	—	12.2	12.2
<i>Pump speed</i>		single	two	variable	variable
<i>Temperature calibration points</i>		1	1	1	10
<i>Programming capability?</i>		—	—	—	Yes
<i>Timer?</i>		—	—	Yes	Yes
<i>Interfaces</i>		—	RS232	RS232/RS485, USB, ethernet - both models	
<i>Inlet/outlet tubing bores</i>	mm	13 - all models			
<i>Supply requirement</i>		240V 50Hz single phase - all models			

[†] Dependent on bath/controller/bath fluid combination and using a lid/cover for temperatures over +60°C

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BJ440



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Open Tank Water Baths, continued



Polycarbonate tank models

Catalogue no.,	MX controller AP controller	BJ440-30 BJ440-65	BJ440-40 BJ440-75	BJ440-60 BJ440-85
Tank capacity	litres	8	14	23
Working access	L x W x D, mm	105 x 156 x 203	314 x 156 x 203	210 x 305 x 203
Overall	L x W x H, mm	322 x 207 x 441	532 x 208 x 441	457 x 345 x 441
Weight,	kg	7.2	10.9	20.4

Open Tank Water Baths, Polyscience, polycarbonate tanks

As described. For 240V 50Hz single phase supplies.

- BJ440-30** MX08P100, 8 litres, ambient + 10 to +85°C
- BJ440-40** MX14P100, 14 litres, ambient + 10 to +85°C
- BJ440-60** MX23P100, 23 litres, ambient + 10 to +85°C

- BJ440-65** AP08P100, 8 litres, ambient + 10 to +85°C
- BJ440-75** AP14P100, 14 litres, ambient + 10 to +85°C
- BJ440-85** AP23P100, 23 litres, ambient + 10 to +85°C

Stainless steel tank models

Catalogue no.,	MX controller AD controller AP controller	BJ442-03 BJ442-33 BJ442-42	BJ442-06 BJ442-36 BJ442-46	BJ442-09 BJ442-39 BJ442-49	BJ442-12 BJ442-40 BJ442-52
Tank capacity	litres	6	10	20	28
Working access	L x W x D, mm	100 x 110 x 152	99 x 255 x 152	264 x 228 x 152	257 x 214 x 203
Overall	L x W x H, mm	340 x 206 x 406	353 x 342 x 406	531 x 342 x 406	531 x 342 x 457
Weight,	kg	9.1	17.7	24.5	29.9

Open Tank Water Baths, Polyscience, stainless steel tanks

As described. For 240V 50Hz single phase supplies.

- BJ442-03** MX06S135 6 litres, ambient + 10 to +135°C
- BJ442-06** MX10S135 10 litres, ambient + 10 to +135°C
- BJ442-09** MX20S135 20 litres, ambient + 10 to +135°C
- BJ442-12** MX28S135 28 litres, ambient + 10 to +135°C
- BJ442-33** AD06S150, 6 litres, ambient + 10 to +150°C
- BJ442-36** AD10S150, 10 litres, ambient + 10 to +150°C
- BJ442-39** AD20S150, 20 litres, ambient + 10 to +150°C
- BJ442-40** AD28S150, 28 litres, ambient + 10 to +150°C

- BJ442-42** AP06S150, 6 litres, ambient + 10 to +150°C
- BJ442-46** AP10S150, 10 litres, ambient + 10 to +150°C
- BJ442-49** AP20S150, 20 litres, ambient + 10 to +150°C
- BJ442-52** AP28S150, 28 litres, ambient + 10 to +150°C

Other tank/controller combinations are available - *details on request.*



Accessory Pt100 Temperature Probes

For use with AD/AP controllers only when monitoring/controlling the contents of remotely heated vessels in open-circuit operation. With cable lengths as indicated.

- BJ443-92** Pt100 probe, 0.6m cable
- BJ443-96** Pt100 probe, 2m cable
- BJ443-98** Pt100 probe, 8m cable

BJ442



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