

# IP Series Incubators

Choice of PID temperature control systems

Temperature range 30 to 80°C\*

Digital display of set and actual temperatures (and programmed features on "M" Models)

Communication port options

Class 2  
Over-temperature protection

Stainless steel radiused interiors

Anti-bacterial epoxy powder coating

Adjustable vent

Choice of natural convection or fan circulated

Sizes from 60 to 250 litres

The IP Series of incubators offers maximum **flexibility** and unparalleled **performance** for the ever increasing demands of today's laboratory. Traditional quality and modern manufacturing techniques linked with LTE's built-in reliability mean that the IP Series represents excellent value.

**Flexibility** – The IP Series is available in 4 sizes from 60 to 250 litres. Customers can then choose between fan circulated or natural convection options, plus there is a choice of PID control systems to suit most applications as detailed below:

**"U" Models:** This uni-program system offers single temperature selection and control at the push of a button. Following a mains power failure, the controller will automatically re-instate.

**"M" Models:** Our multi-program controller will allow upto 8 multiple-step cycles to be stored in the memory at any one time. It also incorporates a selectable temperature ramping function, which allows controlled temperature rise and fall rates to be programmed into a cycle. At the end of a program sequence, the controller can be programmed to stop or repeat the sequence again. The repeat function can be programmed for a specified number of repeats or it can repeat continuously until interrupted. Following a mains power failure, "M" models have 3 recovery options (cycle hold, start cycle from the beginning or re-start cycle from point of interruption).

RS232 or RS485 communication ports can be added to all "M" models.

All "M" models are fitted with an inner glass door as standard.

**Performance** – Fast heat-up times, almost undetectable overshoot and superb accuracy (see table below) make the IP Series a class-leading product.

All IP Series incubators incorporate a manual reset over-temperature cut-out, in line with IEC1010-2-010.

## TECHNICAL AND ORDERING INFORMATION:

IP Series : 30 to 80°C\*

Model and Cat. No		Cap, litres	Air Circulation	Internal Dims, HxWxD, mm	External Dims, HxWxD, mm	Fluctuation ± %	Spatial Variation (empty) ± %*	Shelves/positions/mass, kg	Power Rating, Watts
"U" Models	"M" Models								
IP60-U	IP60-M	60	Natural convection	400 x 400 x 400	590 x 735 x 575	Fan Circ 0.25	2.75	2/6/50	300
IP60-UF	IP60-MF		Fan circulation				1.5		200
IP100-U	IP100-M	100	Natural convection	500 x 500 x 400	Nat. Conv. 0.5		2.75	2/8/60	375
IP100-UF	IP100-MF		Fan circulation				1.5		250
IP150-U	IP150-M	150	Natural convection	600 x 500 x 500		Nat. Conv. 0.5	4.0	2/10/80	650
IP150-UF	IP150-MF		Fan circulation				1.5		350
IP250-U	IP250-M	250	Natural convection	1000 x 500 x 500	Nat. Conv. 0.5		5.0	3/18/120	1050
IP250-UF	IP250-MF		Fan circulation				2.0		500

\* Performance tests carried out in ambient temperatures of 20 to 22°C

## OPTIONS AND ACCESSORIES:

Catalogue No.	Description	Catalogue No.	Description
OA001	0-24hr timer ("U" models only)	SC002	12-point test certificate
OA002	Independent printer	SH002	Shelf for 60-litre models
OA003	Inner glass door ("U" models only)	SH003	Shelf for 100-litre models
OA005	Access port, 18mm	SH004	Shelf for 150-litre models
OA006	Stacking kit (except 250 litre size)	SH005	Shelf for 250-litre models
SC001	Calibration certificate		





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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.