

incubators

STERIDIUM

### Highest Standards

Steridium laboratory incubators are used throughout the world by facilities which demand the highest standards of construction and performance. The chambers are manufactured from the highest quality stainless steel, and the exteriors are epoxy powder coated, to give an exceptional lifespan with minimal maintenance.

Solid doors are available with an optional inner glass viewing door in order to maintain temperature while being able to inspect the product. Alternatively, full double-glazed viewing doors can be fitted which provide permanent viewing of the interior chamber.

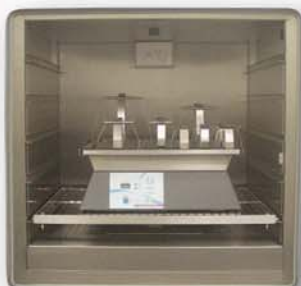
i800



i170



i140



# incubators

### Wide Temperature Range from -20°C to 80°C

All incubators are fitted with a magnetic seal which permits operation up to 80°C. Refrigerated incubators are available with two levels of cooling, standard cooling to 4°C, or freezing to -20°C. Steridium engineers have refined the use of pulsed hot-gas bypass technology in the refrigeration control systems to provide exceptional accuracy across the wide temperature spectrum.

Configurations are available to enhance the capabilities of the standard incubators. Internal power sockets enable internal operation of electrical equipment and devices, while Steridium's orbital shaker can be fitted to the shelves to create a shaking incubator.



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## Micro-Digital Control

**Steridium** engineers have developed state of the art microdigital control systems to give exceptional control stability over time. An auto-tuning facility in the PID controller ensures that the optimum settings are used on every incubator configuration, independent of the chamber size.

The controller includes an alarm system which can be configured as an absolute maximum or deviation alarm. In the unlikely event of a control system failure, an independent mechanical thermostat will activate the alarm and cut off the heating element to protect the product within the chamber.



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## Remote Control, Data-Logging, and Programmability

The standard incubator can be connected to a remote PC via an RS 485 interface, while **Steridium's** basic data-logging software enables temperatures to be recorded and displayed graphically on the PC. A number of incubators can be connected together on a simple 2-wire link and remotely monitored from a single PC.

Where full programmability is required, **Steridium** engineers have developed the ultimate in setpoint programmable controllers. Up to 50 programmed temperature profiles with 500 segments can be stored in the controller's memory. Powerful software enables temperature profiles to be pre-programmed and tested on a remote PC before downloading to the controller.

### SPECIFICATIONS & OPTIONS

Numerous designs above 1600 litre capacity are available upon request  
Custom-made designs are a speciality of **Steridium's** engineering expertise

MODEL		i25	i75	i140	i170	i300	i500	i800	i1200	i1600
Chamber Dimensions	width	262	435	515	700	700	700	1490	1490	1005
	depth	300	375	520	600	600	600	610	610	1010
	height	295	440	520	400	750	1200	840	1250	1550
External Dimensions	width	370	540	620	866	866	866	1785	1785	1300
	depth	420	490	640	785	785	785	795	795	1195
	height	620	760	840	1085	1435	1885	1440	1860	2150
Temperature Range	Ambient +5°C to 80°C (higher temperatures available on request)									
Accuracy	<0.2°C variation with time									
Heating Element (kW)	0.24	.024	.024	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Shelf Spacing	80	80	80	90	90	90	90	90	90	100
Shelf Positions	3	4	5	4	8	13	8	13	14	
Electrical	220-240V, 50-60Hz Single Phase (alternatives available)									
Fan Circulation	Optional	Optional	Optional	Standard	Standard	Standard	Standard	Standard	Standard	Standard
RS 485 Interface	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Programmable Control	-	-	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Castors	-	-	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Orbital Shaker	-	-	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Internal Power Supply	OPTIONAL									
Internal Glass Viewing Door										
Refrigeration to +4°C										
Refrigeration to -20°C										
Countdown Timer										
Temperature Alarm										