

Инкубаторы гибридные HI-200, HI-200D, инкубаторы-шейкеры Stuart INC-200D-H, INC-200D-M, прозрачные инкубаторы INC-200

Технические характеристики

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Cole-Parmer® Stuart™ Microplate Incubator - INC-200D-M

- Incubator with precise and accurate temperature control
- Ideal for microtitre plates and petri dishes
- Laminar flow air circulation for even temperature distribution
- Digital setting and display of temperature
- Retractable platform for easy loading and unloading
- Convenient upward opening door
- Built-in water tray prevents samples evaporation
- Compact unit





Cole-Parmer® Stuart™ Microplate Incubator - INC-200D-M

The Cole-Parmer® Stuart™ INC-200D-M microplate incubator is specially designed for microtitre plates and petri dishes. Forced air circulation blows preheated air across the shelves, rather than through them, for uniform temperature distribution.

Strategically placed stainless-steel water trays increase humidity, preventing sample evaporation and damage over extended periods of incubation. The purpose-built design also offers unobstructed access to samples with an upwards opening acrylic door, and a stainless-steel chamber with four easy-slide shelves, each accommodating 6 to 12 plates.

The built-in safety feature protects the units from overheating; the system automatically tracks temperature and adjusts heater in the event of a fault.

Temperature can be quickly set and viewed on a bright LED display, which is replaced by an error message in the event of a temperature excursion.

Technical Specification

Specification	INC-200D-M
Nominal capacity	20 litres
Temperature range	Ambient + 8°C to 80°C
Temperature fluctuation (at 37°C)	±0.5°C
Temperature variation	±0.5°C
Display type	LED
Display resolution	0.1°C
Internal dimensions, mm (w x d x h)	250 x 230 x 200
Overall dimensions, mm (w x d x h)	380 x 380 x 435
Net weight, kg	24
Electrical supply	230V, 50Hz, 280W
IP Rating	30

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Incubator, 20L	39065-15	INC-200	INC-200D-M	SI19
Incubator, 20L 120V/60HZ	39065-10	INC-200	INC-200D-M-120	SI19/120V/60



Cole-Parmer® Stuart™ Hybridisation Incubator and Shaker Oven - INC-200D-H

- Versatile hybridisation incubator
- Precise and accurate temperature control
- Dual motion - rotisserie and rocker in one unit
- Easy access to samples - up-and-over door
- Advanced safety features
- Compact design





INC-200D-H with hybridisation bottles
with PTFE screwcaps

Cole-Parmer® Stuart™ Hybridisation Incubator and Shaker Oven - INC-200D-H

The Cole-Parmer® Stuart™ INC-200D-H hybridisation incubator & shaker oven is ideal for nucleic acid hybridisation applications, such as Northern, Southern, and Western blots.

Temperature is accurately set using the intuitive encoder controls and continuously displayed by LED. Forced air circulation combined with microprocessor control ensure outstanding temperature uniformity.

The compact incubator comes with two built-in shakers - a rotisserie shaker with adjustable rotational speed of 2 to 10 rpm and a platform shaker with adjustable rocking speed of 5 to 70 oscillations/minute.

The built-in safety features offer protection from overheating; the system automatically tracks the temperature, adjusts the heater, and cuts off power to the motor in the event of a fault.

A purpose-built design offers unobstructed access to samples with a n up-and-over door, while stainless-steel interior allows for easy cleaning, and double-glazed panel of smoked acrylic and polycarbonate door provides radiation protection.

Technical Specification

Specification	INC-200D-H
Nominal capacity	20 litres
Temperature range	Ambient + 8 °C to 80 °C
Temperature fluctuation (at 37 °C)	±0.1 °C
Temperature variation	±0.5 °C
Display type	LED
Display resolution	0.1 °C
Number of rotisseries	1
Rotational speed range	2 to 10 rpm
Rocker speed range	5 to 70 oscillations / minute
Internal dimensions, mm (w x d x h)	286 x 230 x 200
Overall dimensions, mm (w x d x h)	380 x 380 x 435
Net weight, kg	24
Electrical supply	230V, 50Hz, 350W
IP Rating	30

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Hybridisation oven/shaker	39454-05	INC-200	INC-200D-H	5I30H
Hybridisation oven/shaker 120/60HZ	39454-00	INC-200	INC-200D-H-120	5I30H/120V/60
Spare rotisserie for 7 x 40mm diameter bittles (holds 6 plus 1 in the centre)	39454-95	INC-200	N/A	5I20H/1
Accessory rotisserie for 2 x 75mm diameter bottles	39454-96	INC-200	N/A	5I20H/2



Hybridisation bottles for use in Stuart incubators

Cole-Parmer® Stuart™ Hybridisation bottles

Bottle hybridisation minimises probe volumes, reduces reagent volumes and enhances signal intensity. Made from Pyrex® borosilicate glass Stuart® hybridisation bottles are robust and can easily withstand the temperatures of the most rigorous hybridisation techniques. The thermoplastic polyester caps are very rigid and will not distort during repeated heating

in the incubator which can lead to leakage. The seal is made by a PTFE faced insert that covers the entire inside of the cap making very good contact with the glass thread. Available in three sizes, each bottle comes complete with cap and a care leaflet.

Ordering Information

Description	Ordering Number	Model No.	Overall length	O.D.	I.D.	Wall thickness
Hybridisation Bottle	39454-97	SI20H/3	260mm	40mm	33.6mm	3.2mm
Hybridisation Bottle	39454-98	SI20H/4	260mm	75mm	68.6mm	3.2mm
Hybridisation Bottle	39454-99	SI20H/5	170mm	40mm	33.6mm	3.2mm

Note: Stuart Hybridisation bottles are suitable to be autoclaved

INC-200 Series Clear Incubators

- Clear acrylic construction allows full visibility of samples from all sides
- Choice of analog or digital temperature control
- Easy access to working chamber
- Suitable for multiple applications
- 3-year warranty



INC-200 Analog Incubator



INC-200 Digital Incubator
shown with Rack System 01110-98

INC-200 Series Clear Incubators

The INC-200 incubators are suitable for multiple applications such as plant propagation, humidity testing, climactic condition simulation, corrosion testing and more. The clear acrylic top and sides make it easy to view your sample from all sides.

Forced air circulation and electronic control ensures accurate temperature conditions. A pre-set push switch automatically sets the temperature at 37 °C, while a safety feature cuts off heating if the unit reaches 72 °C or higher.

Temperature is set via a calibrated knob for the analog model (INC-200), and via an LCD when using the digital model (INC-200D). The latter not only allows more accurate temperature management but also gives a constant reading of actual temperature when in use.

The purpose-built design offers easy access to samples - a hinged front door panel and plugged holes (2 x 10 mm diameter) on each of the side panels permits the introduction of gases or cables. These units do not have a base so they can be placed directly over entire instruments; order optional base if needed.

Specifications

Model no.	INC-200
Temperature range	Ambient +5 °C to 60 °C
Temperature fluctuation at 37 °C	±0.1 °C
Temperature variation between shelves	±0.3 °C
Capacity	60 L (21 cu ft)
Internal dimensions (W x H x D)	45 x 38 x 38 cm (17.7 x 15 x 15 in)
Overall dimensions (W x H x D)	60 x 39 x 39 cm (23.6 x 15.4 x 15.4 in)
P rating	IP30
Warranty	3 years

Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Clear analog incubator, 230 VAC, 50 Hz	01110-02	INC-200	INC-200	SI60
Clear analog incubator, 120 VAC, 60 Hz	01110-00	INC-200	INC-200-120	SI60/120V/60
Clear digital incubator, 230 VAC, 50 Hz	01110-08	INC-200	INC-200D	SI60D
Clear digital incubator, 120 VAC, 60 Hz	01110-04	INC-200	INC-200D-120	SI60D/120V/60

Accessories

Description	Item no.	Series no.	Model no.	Legacy SKU
Acrylic base plate	01110-97	INC-200	N/A	SI60/1
Plastic coated rack system with two shelves	01110-98	INC-200	N/A	SI60/2
Sample tray	01110-99	INC-200	N/A	SI60/5

Cole-Parmer® Incubators - HI-200, HI-200D

- Accurate and precise incubators; temperature stability of $\pm 0.1^{\circ}\text{C}$ within tubes
- Rotisserie shaker with adjustable rotational speed from 0 to 20 rpm
- Platform shaker with rocking speed up to 60 oscillation/minute
- Functional design with unique "slot-in" sample tubes
- Radioactive safe - protective casing and non-drip tubes
- Usability and recovery of low volumes of probes (5ml)
- Tubes and accessories can be assimilated for multiple uses
- Removable drip-tray for easy cleaning
- Adjustable feet for levelling on uneven surfaces



HI-200D Model



Cole-Parmer®

Incubators - HI-200, HI-200D

The Cole-Parmer® HI-200 and HI-200D incubators are ideal for nucleic acid hybridisation applications such as Northern, Southern, and Western blots in which RNA, DNA or protein are immobilised onto nylon or nitrocellulose filters.

HI-200

The HI-200 incubator is a compact, stackable alternative to the HI-200D. With a temperature range of 10°C above ambient to 100°C, the incubator offers excellent temperature accuracy and uniformity at an affordable price. Three ovens can be stacked to save valuable bench space and each unit can hold up to 16 mini or 4 large glass tubes.

HI-200D

The HI-200D incubator is compact, easy to use, and provides complete protection from hybridisation hazards. The high-capacity unit can hold up to 24 mini tubes or 6 large ones, with temperature ranging between 10°C above ambient to 80°C. The double-glazed glass door provides durable protection, quiet and safe operation, minimising risk to the user.

Technical Specification

Specification	HI-200	HI-200D
Maximum glass tube capacity	16 mini tubes	24 mini tubes
Maximum temperature	80°C	100°C
Minimum temperature	10°C above ambient	10°C above ambient
Adjustable rotation speed	Q 5 to 20 rpm	Q 5 to 20 rpm
Adjustable rocking platform	5-20 or 15-60 opm	5-20 or 15-60 opm
Stability in chamber	1.0°C	1.0°C
Stability in tubes	±0.1°C	±0.1°C
Uniformity in chamber	±1.5°C	±1.5°C
Uniformity in tube	±0.5°C	±0.5°C
Temperature set point resolution	0.1°C	0.1°C
Absolute accuracy	±0.3°C	±0.3°C
Dimensions L x W x H (mm)	355 x 383 x 432	285 x 385 x 555
Voltage	230V, 50-60Hz	230V, 50-60Hz
Power	750W	750W
Shipping Weight	21kg	24kg

Ordering Information

Description	Ordering Number	SeriesNo.	Model No.	LegacySku.
HI-200 hybridisation incubator, 120V (including 3 large tubes FHB12)	39455-01	HI-200	HI-200D-HC-T-120	FHBIOB
HI-200 hybridisation incubator, 230V	39455-02	HI-200	HI-200D-HC	FHBIOE
HI-200 hybridisation incubator, 230V (including 3 large tubes FHB12)	39455-03	HI-200	HI-200D-HC-T	FHBIOG
HI-200D hybridisation incubator, 230V	39455-04	HI-200	HI-200	FHB4DD
HI-200D hybridisation incubator, 230V (including 4 large tubes FHB16)	39455-06	HI-200	HI-200-T	FHB4DDT
HI-200D hybridisation incubator, 120V	39455-07	HI-200	HI-200-120	FHB4DP
HI-200D hybridisation incubator, 120V (including 4 large tubes FHB16)	39455-08	HI-200	HI-200-T-120	FHB4DPT

Cole-Parmer®

Incubators HB-3D and HB-1D accessories

Ordering Information

Description	Ordering Number	HI-200	Ordering Number	HI-200D
Tube carrier with clips to hold 16 x 15ml tubes	39455-29	F15ML4TH	39455-28	F15ML1TH
Tube carrier with clips to hold 8 x 50ml tubes	39455-31	F50ML4TH	39455-34	F50ML1TH
•Tube carrier with clips to hold 4 x mini 32mm tubes	39455-24	FHB61	39455-18	FHB43
Rocking platform 0-60opm	39455-16	FHB4PLAT	39455-09	FHB1PLAT
Stainless steel mesh shelf	39455-22	FHB4SH1	39455-26	FHB5H1
Large (80mm) glass tube with end caps	39455-13	FHB16	39455-11	FHB12
Small (44mm) glass tube with screw caps	39455-15	FHB36	39455-14	FHB32
**Mini (32mm) glass tubes with screw caps (pack of 4)	39455-17	FHB41	39455-17	FHB41

*39455-27 glass tubes require this mini tube carrier.

**Requires mini tube holder.



Ordering Information

Description	Ordering Number	Legacy Sku.
Membrane separators 20 x 20cm (pack of 5)	39455-32	FMEM2020
Tube rack holder for HI-200 and HI-200D, three large/three small tubes	39455-27	FHTRACK
HI-200 incubator wall fixing kit	39455-23	FHB4WALL
Complete kit for stacking 3 HI-200 units	39455-19	FHB4DKIT
HI-200 incubator stacking kit (secures two units)	39455-21	FHB4DSTK



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