

Planer benchtop incubator INC-A20

The ultimate cell culture environment

- Accurate temperature
- Battery backup
- Accepts wide selection of culture dishes
- Visual and audible alarms
- Optional software



The INC-A20 benchtop incubator is designed to grow and maintain cell cultures and it offers outstanding control of their environment. Made primarily for users in the Stem Cell, Transgenic or Embryology fields, this benchtop incubator is a cost effective option for those not needing humidity control.

The incubator will keep cells at an optimal temperature, humidity and gas content by maintaining a constant and clean environment at, for example, 37-37.5°C, 5%/6% CO₂.

Accuracy and control of the chamber to obtain environmental homeostasis is imperative. The Planer benchtop incubator is the most accurate of its kind ensuring the embryo suffers little or no exposure to temperature or pH level changes.

The compact size allows placement in cabinets and chambers and separation of sample by chamber. Flow control is unique with continuous, pulse and bleed options available to optimise culture conditions and reduce gas usage.

Benefits

- Full-contact heating plates for excellent heat distribution
- Stable environment from heated base and lid
- Clear, unambiguous status indicators visible from across the lab
- Network ready to allow continuous monitoring
- Fast recovery of all parameters after lid opening
- Accepts largest selection of culture dishes
- Easy to use: intuitive user interface
- Battery backup for up to 2 hours

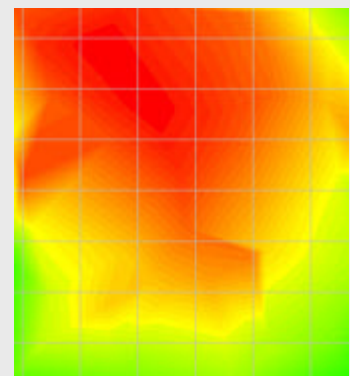
Features

- Set-points for each chamber : set independently
- Gas purge system ensures fast recovery after lid opening; secure gas flow
- Tightly packed, full-surface heating elements
- Built-in battery backup
- Multiple machines can be connected in series
- Rapid and accurate response to temperature changes
- Password protection - no unauthorised modification of operating parameters

Unrivalled accuracy

Temperature map of incubator plate inside culture dish area showing variations of less than 0.3 degrees over the whole plate temperature whilst providing stable temperatures within +/- 0.2°C at dish area. This, coupled with heated upper plates

unrivalled temperature accuracy within sample dishes.



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Physical

Dimensions	420 mm wide x 270 mm deep x 210 mm high
Weight	15.5 kg
Storage temperature	-10 °C to +50 °C
Storage humidity	5% to 95% relative humidity non-condensing
Operating environment	For indoor use only
Operating temperature	+5 °C to +40 °C for safe operation. See also temperature control range restriction.
Operating humidity	10% to 90% relative humidity non-condensing
Altitude	up to 2000 m
Pollution degree	Pollution degree 2 (BS EN61010-1)

Control

Temperature control range	(ambient + 5 °C) to 40 °C.
Temperature measurement accuracy	± 0.2 °C
Temperature control accuracy	± 0.1 °C measured after any transient effects due to set-point changes have subsided.
Flow control range	0 ml/minute to 900 ml/minute. Flow measurements are normalised to 0 C , 50% RH and 1 bar.
Flow accuracy	The greater of ± 10% or ± 0.3 ml/minute
Flow control accuracy	The greater of ± 5% or ± 0.2 ml/minute measured after any transient effects due to set-point changes have subsided.

Capacity

Dishes per chamber	4 x NUNC 4 well dishes 4 x NUNC 60 mm dishes 10 x NUNC 30 mm dishes 4 x MINITUB 5 well dishes 4 x FALCON 60 mm dishes 4 x FALCON 60mm single - well "organ culture" dishes
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Power

Power requirements (see note) Includes Controller	100 - 230 V~ / 50/60Hz / 1.1 A
Internal battery backup	Gelled sealed lead acid battery / 12 v x 12 Ah

Gas supply

Gas supply	Premixed gas. Typically 6% CO ₂ , 5% O ₂ , balance N ₂
Supply pressure	1.5 ± 0.15 bar
Connectors	

Alarms

Alarms	The incubator provides 3 volt-free terminals which provide normally-open and normally-closed contacts.
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Remote monitoring

LAN	10 Base T Ethernet - RJ45 shielded. Modbus-TCP-IP protocol.
Remote PT100 sensors	PT100 Class A to EN60751. Maximum diameter 2.51 mm. Minimum length 100 mm. Sensing region should be within 15 mm of the tip.