



Benchtop incubator humidity controlled

BT37

Provide your cells with a near in vivo culture environment with the BT37 benchtop incubator – ideal for human and animal IVF and stem cell applications.

The incubator keeps cells at an optimal temperature, humidity and gas content by maintaining a constant and clean environment.

Within sample dishes, the BT37 has unrivalled temperature accuracy – essential for providing an outstanding cell culture environment.

Want to find out more about benchtop incubators?
enquiries@planer.com

Easy to use, each chamber in this compact incubator can be set independently – and can be continuously monitored via your web browser.

All critical operating parameters are password protected for additional security.

- Ensures optimal clinical and experimental outcome - accurate temperature and gas control
- Reduce metabolic stress - rapid temperature and gas recovery
- The reassurance of an in built battery back-up - in case of lab power failure
- Flexibility - accommodates a variety of different culture dishes
- Stay informed - easily incorporate independent monitoring options



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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 60 mm single-well "organ culture" dishes & many more types accepted
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	Regulator must be supplied with Swagelok 1/4" connection SS-400-1-4RT
ALARMS	
Alarms	The incubator provides 3 volt-free terminals which provide normally-open and normally-closed contacts.
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..

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