

CELL-TEK 3000 IV



MICROSCOPE CHAMBER

Creating an environment for safe and ergonomic microscopic examination, during micromanipulation, ICSI, PGD, PGS and laser biopsy in IVF

CELL  TEK

CELLTEK 3000 IV

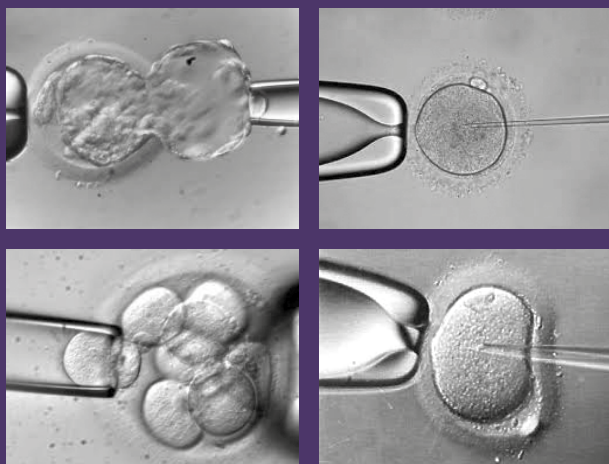
The chamber accepts most conventional manufactured inverted tissue culture microscopes with manipulators and ancillary equipment.

All instruments in the chamber are maintained under optimum conditions of temperature, CO₂ and humidity and not influenced by air flow from ducts and other ambient air. The circulated airflow removes the need for metal or glass warming plates.

Provides a filtered and VOC free environment through UV photo-catalytic oxidization together with HEPA and carbon filter.

The Cell-Tek 3000 IV chamber allows the scientist time to safely carry out procedures such as:

- ▶ **ICSI** (Intracytoplasmic Sperm Injection)
- ▶ **PGD** (Pre-implantation Genetic Diagnosis)
- ▶ **EMBRYO BIOPSY**
- ▶ **ASSISTED HATCHING**
- ▶ **EMBRYO ASSESSMENT AT HIGH MICROSCOPE MAGNIFICATION**



All of these techniques require maximum stability of the specimen in the dishes or anywhere on the microscope stage. To provide stability the Cell-Tek 3000 IV is supplied standard with a proprietary low profile anti-vibration plate to suit most standard microscopes and models.



Tissue being observed in the CELL-TEK 3000 IV chamber is assured of the cleanest filtered and VOC free, circulated air. Its closed environment is virtually uninfluenced by ambient lab conditions that are often subject to toxic fumes like VOC and hydrocarbons stemming from paint, motor vehicles and general HVAC systems.

The CELL-TEK chamber incorporates in its airflow system a UV Photocatalytic Oxidisation Technology where no UV light is visible to operator or specimen exposure, combined with specially formulated high grade carbon and finite HEPA filters, a unique environmental air cleaning combination not previously seen in ART work stations.

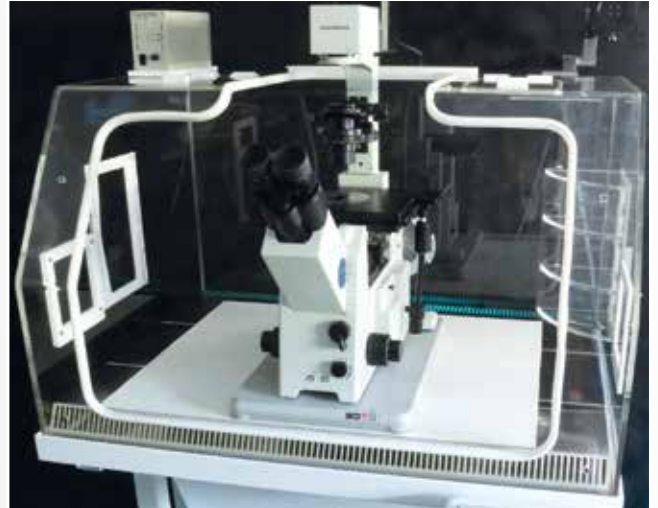
For stability and mobility the Cell-Tek 3000 IV is situated on a rigid powder coated steel frame located on 4 castors with additional foot operated lift locks securing the instrument when in normal operating position.

See separate brochure for required and optional accessories for Cell-Tek chambers



Accessibility to the instrumentation within the chamber is provided by four hinged access doors in optimum positions at the top and front as well as two sliding iris arm ports providing hand entry to the semi-sealed environment during manipulation techniques.

The hinged top access doors allow for easy access to needles and needle holders of any selected manipulation system to allow holders to be taken out of the canopy to be replaced or exchanged.



Fitting a microscope and ancillary equipment is easy via the large removable front section of the chamber.



Optional swing-out shelf modules can be located on either side of the canopy providing for storage of out-gassed dishes or multiple well plates. Specimens can also be introduced and stored on these shelves within easy access through the sliding arm ports.

The parameters of temperature, CO₂ gas concentration and humidity can be set or switched on/off via the large touch screen.



The touch screen controls have three levels of user access and display a graphic trend screen and CSV log files downloadable to memory stick.

Controlled humidification within the chamber is possible by filling pre-filtered/sterile water in the special evaporation tray. Relative humidity (RH) set point to maximum 70% can be selected or switched off totally on the touch screen.

As all equipment used in these procedures is located internally, specimens are not affected by drafts from air conditioning ducts or unstable air environment typically found in laminar flow or biological safety cabinets.



GIVE EMBRYOS THEIR BEST CHANCE, WORK IN A CELL-TEK 3000 IV

PHYSICAL AND TECHNICAL SPECIFICATIONS

BASIC INSTRUMENT	
Overall instrument width (foot print)	105 cm
Overall instrument depth (Front to back with display module arrested horizontally)	94 cm
Overall instrument depth (Front to back with dropped display module)	75 cm
Overall instrument height on stand	136 cm
Humidification tray (right side) Drawn out fill distance	12 cm
Humidification tray (right side) Drawn out for removal and cleaning distance	70 cm
Working floor space required. width X depth	120 X 150 cm
Heated humidity water reservoir (fill capacity)	1500 ml
CANOPY INTERNAL WORK AREA:	
Width	96 cm
Depth	64 cm
Height	52 cm
Hinged access doors front and top	4
Sliding Iris arm port numbers	2
Optional three shelved side swingout doors (left or right)	2
Circulation fans	2
Independent over temperature thermostatic cut-out	1
Over temperature indication lamp	1
Remote alarm port	1
Inbuilt HePa filter for airborne allergens & particulates (0.3 micron)	Replacement 12 month
Inbuilt VOC filter of carbon-zeolite	Replacement 12 month
Inbuilt Photocatalytic Oxidization unit with UV tube	Replacement 12 month
Temperature controller	Microprocessor-proportional
Temperature sensor	RTD
Temperature range	32 to 40° C
Control accuracy	0.1° C
Temperature fluctuation throughout.	+/- 1° C
Temperature stabilization time approx.	180 min
CO ₂ Controller	Microprocessor-proportional
CO ₂ sensor	Infrared
CO ₂ range	0-10 %
CO ₂ accuracy	0.2 %
CO ₂ bottle pressure supply to controller	10/70/0.7 PSI/KPA/bar
CO ₂ Stabilization time to set point. approximately	30 minutes
CO ₂ Inlet	6 mm tube fitting
Humidity control	Ambient to 70% RH
Touch screen three level password protection.	User/administrator/Service
Touch screen alarm functions	Temperature/CO ₂ / humidity
PERFORMANCE TREND AND CALIBRATION SCREEN	
Performance download facility to USB	(CSV)
Network communication facility with IP address	Lab dependent
Power requirements	220/240 Volt 50Hz
(Opt. 110/115 Volt 50/60Hz)	Max 1000 watt
Total current draw	Max 1000 watt
ANTI-VIBRATION PLATFORM	
Plate size including vibration isolators to suit varied microscope	510 X 325 X 38 mm high
MICROSCOPE ADAPTABILITY (confirmation is required before quoting)	
Nikon	
Olympus	
Leica	
Zeiss	
Manipulators and syringes: Narishige. Eppendorf, RI	
TROLLEY	
Tubular steel powder coated trolley	1
100mm medical grade swivel castors with floor lift-locks	4
CATALOGUE NO:	
	RD CLT 3000 IV
Design and technical specifications can change without notification	

04/19

FOR FURTHER DETAILED INFORMATION CONTACT:

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