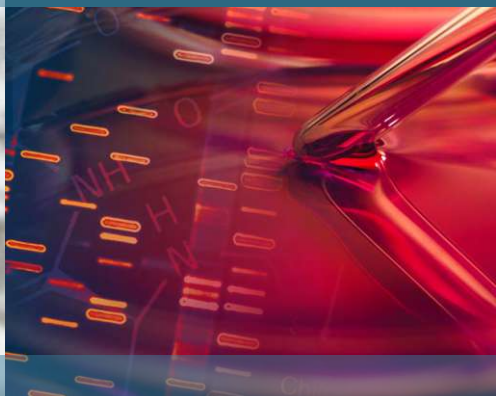




KAVOSHTEB



Products Catalog 2022

- Microbiology
- Pathology
- Virology
- Bio technology
- Cell Culturing
- IVF
- Filtration & Filling

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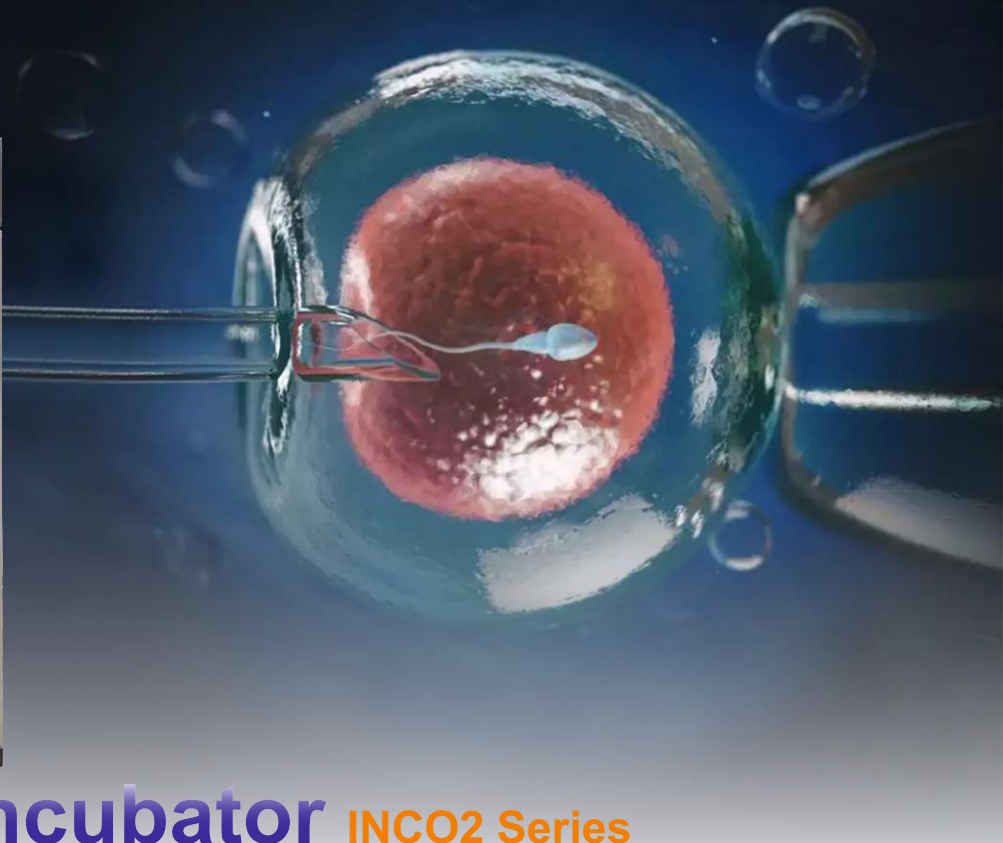


Peristaltic Pumps **KT Series**

A peristaltic pump, is a type of positive displacement pump used for pumping a variety of fluids. the fluid is contained in a flexible tube fitted inside the circular pump casing.

Our pumps are engineered to safeguard your product throughout your process. With a comprehensive portfolio of products and assembly design capabilities, we can support your process throughout upstream, downstream and final fill/finish applications.

MODEL	KT-1100	KT-500	KT-150 PLUS	KT-150	KT-20
Flow Rate	0.5_12 l/min	0.1_6 l/min	0.04_1.7 l/min		0_20 ml/min
Accuracy	30 ml/min		10 ml/min		1 ml/min
Rotation Speed	Max=600 RPM		Max=350 RPM		Max=100 RPM
Motor	Servo 0.4kW		Step. 1.8Deg.		
Controller	PLC with 4.3" Touchscreen HMI			Micro Controller with LCD	
Weight	14000 g	13800 g	7000 g		6500 g
Body	Electrostatically Coated Metal				
Pump Head Material	ABS + SS 304				
Pump Head Brand	Longer Pump / China				
Programs	Manual Mode + Max. Speed Start + Flow Rate Mode + Vial Filling + Pedal/Sensor			Manual Mode + Vial Filling	
Compatible Tube	ID=9.6_13 mm OD=16.2_19.6 mm T=3.3 mm	ID=4.8_9.6 mm OD=9.6_14.4 mm T=2.4 mm	ID=0.8_6.4 mm OD=4_9.6 mm T=1.6mm		ID=1_4 mm OD=3_6 mm T=1 mm
Power Supply	220V AC 50 Hz				



CO₂ Incubator INCO₂ Series

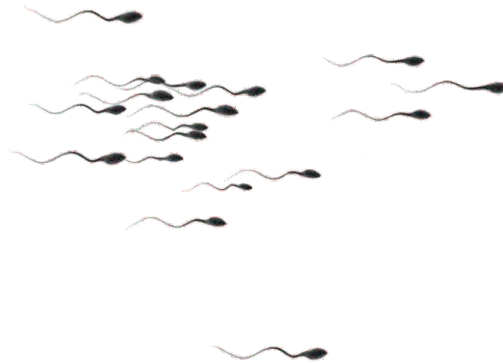
A CO₂ incubator is the safe haven for your cells providing optimal atmospheric conditions. Especially sensitive primary or stem cells are susceptible to temperature increases and will react in adverse ways. When you are planning a complex experiment, or use the cells for a certain application, you want to be sure that the location of the culture vessel inside the incubator has no impact on the cells and experimental result.

Kavoshteb CO₂ Incubator provide an optimal cell growth environment by maintaining a humidified atmosphere with temperature and carbon dioxide control, these conditions promote cell growth.

Technical Specification:

Working volume:	60 , 108 , 160 , 240L
Body and chamber material:	Stainless Steel 304L (chamber electro-polished Ra ≤ 0.6μm)
Main controller:	Siemens PLC system
Display:	4.3" full-color touchscreen HMI
Temperature Range:	RT+3 _ 50°C 10 _ 50°C for refrigerate model: 160R & 240R
Humidity Range:	0 _ 100%RH
CO ₂ Range:	0 _ 20%

- *Fast recovery without regulation overshoot; Temperature and CO₂ recovery in less than 5 min.*
- *Vibration and turbulence protection by using fast brushless FAN.*
- *Continues parameters log on the flash memory.*
- *User friendly operation menu & sensitive 4.3inches touchscreen panel.*
- *UV-C sterilization cycle for more contamination protection.*
- *Stainless steel electro-polished, chamber.*
- *Short response accurate NDIR CO₂ sensor.*
- *Visual and audible alarm system with flash save option.*



CO₂ Incubator **INCUBE-120 CO₂**

One of the types of incubators used in laboratories is CO₂ incubator. One of the most important characteristics of CO₂ incubators is the regulation of moisture and carbon dioxide during cell cultures. by using this device, the temperature and pH of the media can be adjusted for cell culture. Carbon dioxide incubator is used for microbiological, biochemical, genetic, pharmaceutical and biology researches.

This economic CO₂ incubator is designed and produced for research and development in pharmaceutical companies and academic centers.

CO₂ and temperature stability in this device makes it a good choice for IVF and artificial insemination.

Technical Specification:

Working volume:	120L
Material:	Body: electro statically coated metal / Chamber: SS-304L electro-polished Ra ≤0.6µm
Main controller:	Atech TDE PLC system
Display:	3.5" blue backlight characteric LCD
Temperature Range:	RT+3 _ 50°C
Humidity Range:	0 _ 100%RH
CO ₂ Range:	0 _ 20%



CO₂ Incubator Orbital Shaker

Cellshake-200

For the best results in cell culture, every step counts. The “Cellshake-200” is a small shaker specially developed for use in CO₂ incubators — one that uses minimal energy and has an waterproof direct drive motor, making it perfect for starting out with shaking cell cultures.

the movement of orbital with proper speed gradient during starting and stop does not leave any stress and shock on the cultivated product.

the sticky pad is used so that the user can easily place the containers containing cultivation on the shaker and easily remove them from it. a special flat cable with a length about 2m is used to easily pass through the door of the incubator and therefore the shaker controller could be placed out of the incubator then makes it easier to use and monitor. It should be noted that the controller signals transmitted through the flat cable to the shaker inside the incubator all have a low voltage level of DC type and do not threaten any risks caused by the user's electrocution.

Technical Specification:

Dimansion: 450(L)x360(W)x120(H)mm

Rotation Speed: 50_200 RPM

Motor: Direct Drive Brushless Servo Motor

Maximum Load: max. 5.0 kg

Shaking Throw: 25mm

Ambient Temperatur: 4°C _50°C

Power Supply: 220V AC 50Hz

Tray Capacity:	Shake flask size	W tray (370mm x 300mm)
	25 mL	48
	50 mL	35
	100 mL	23
	250 mL	12
	500 mL	8
	1000 mL	5

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Standard Incubator

INCUBE Series

Standard incubators are suitable for a variety of routine applications where precise and consistent temperature control is required.

*Also the **INCUBE-750 R** has refrigerated technology that offer precise temperature control for reliable results in pharmaceutical, food, cosmetic and microbiology research.*

Technical Specification:

Working volume:	120 , 750L
Material:	Body: electro statically coated metal / Chamber: SS-304L electro-polished Ra \leq 0.6 μ m
Main controller:	Atech TDE PLC system
Display:	3.5" blue backlight characteric LCD
Temperature Range:	RT+3 _ 50°C 10 _ 50°C for refrigerate model: 750R
Humidity Display:	0 _ 100%RH



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Biological Safety Cabinet (BSC)

A Biological Safety Cabinet (BSC), also known as a Biosafety Cabinet is mainly used for handling pathogenic biological samples or for applications that require a sterile work zone. A biological safety cabinet creates inflow and downflow of air that provides operator protection. The downflow air passes through an HEPA filter and creates an ISO Class 3 work zone to protect samples from the risk of cross-contamination. The air exhausted also passes through an HEPA filter prior to release to protect the environment.

Technical Specification:

Width:	100 , 130 , 160cm
Material:	Body: electro statically coated metal / Tray: SS-304L
Main controller:	Atech TDE PLC system
Display:	3.5" blue backlight character LCD
Main & Exhaust Filter:	Certified H14 Hepa Filter
Class/Type:	Class II / Type A2 & B2
Sterilization:	UV-C Sterilization with automatic digital timer & door safety switch
Additional Optional:	Air velocity Sensor to control the fan inverter in 0.45 m/S, DP sensor with filter change alarm, full SS-304L body



Hot Air Oven DHS Series

The Oven or Dry Heat Sterilization (DHS) is an electrical furnace that uses for drying, sterilization and depyrogen processes by creating heat in a chamber. This device is used in laboratories and production lines of pharmaceutical industry, medical diagnostic laboratories, research and development laboratories of biological products.

Laboratory and cleanroom ovens mostly used to dry gently thaw frozen samples, cure composites and prepare raw materials. Commonly used in environmental labs, biotechnology facilities, pharmaceutical drug development, forensics labs, and raw material manufacturing plants, ovens are designed for general lab use or specialty applications, such as GMP areas or ISO-rated cleanrooms.

Technical Specification:

Working volume:	240 , 750 , 1060 L
Material:	Stainless Steel 304L (chamber electro-polished $Ra \leq 0.6\mu m$)
Main controller:	Siemens PLC system
Display:	4.3" full-color touchscreen HMI
Temperature Range:	70 _ 255°C
Exhaust Damper:	electrical adjustable 0 _ 100%



Laboratory Water Bath

A water bath is a lab constant temperature equipment, providing heat source for varieties of devices that need heating. The circulating water bath is used to keep water at a constant temperature for incubating samples in a laboratory.

A laboratory water bath is used to heat samples. Some applications include maintaining cell lines or heating flammable chemicals that might combust if exposed to open flame. A water bath generally consists of a heating unit, a SS chamber that holds the water and samples, and a control interface. Different types of water baths offer additional functionality such as a circulating water bath that keep a more even temperature or a shaking water bath that keeps the samples in motion while they are heated.

Technical Specification:

Working volume:	23 , 27L
Material:	SS-304L
Controller & Display:	Micro Controller
Temperature Range:	RT+3 _ 60°C
Resolution:	1°C
Timer Range:	0 _ 999 min

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