



IBERCEX

CONTROLLED ENVIRONMENTAL CHAMBERS



IBERCEX LTD, is a Spanish company dedicated to the manufacture of controlled- environmental chambers. We have over 30 years, of experience in research and agricultural production fields.

Our controlled-environmental chambers are built according to your needs; they adapt to the environment and space available. Our technical department is able to shape any idea or suggestion from our customers to create a product perfectly suited to the different needs of your research or processes that will take place.

We offer a wide technical service network that covers all maintenance and repair needs in a timely manner.

IBERCEX offers highly customised or standardised solutions, always “turnkey”.

THESE ARE SOME OF OUR Customers

PUBLIC ORGANIZATIONS

Centro Nacional de Biotecnología (National Centre of Biotechnology, Spain)

Centro Biología Molecular Severo Ochoa (Centre of Molecular Biology)

Instituto Nacional Investigaciones Agrarias (National Institute of Agricultural Research, Spain)

Instituto Valenciano Investigaciones Agrarias (Agricultural Research Institute of Valencia, Spain)

Universidad Politécnica de Madrid (Technical University of Madrid, Spain)

University of Cadiz

University of Seville

University of Barcelona

University of Castilla la Mancha

University of Navarra

University of La Rioja

PRIVATE COMPANIES

Rovi

Glaxo Smith Kline

Italfarmaco

Bdf Nivea

Loreal España

Viscofan

Fitó

Fertiberia

Neiker

Monsanto

Intersemillas

Rijkzwaal



C SERIES. Refrigerated Incubators

APPLICATIONS

Biological cultures, genetics, entomology and laboratory tests.

PERFORMANCE DATA

- Temperature range from 0° to 45°C.
- Accuracy ±0.3°C.
- Digital display resolution 0.1°C.
- Electronic temperature control.
- Failsafe thermostat.
- Optical and audible alarm.
- 220V interior electrical outlet with protection level IP65.
- Vertical forced airflow.
- PVC interior, acid-resistant and easy to clean.
- Steel exterior with baked enamel finish.



MODEL	CAPACITY	INTERIOR DIMENSIONS (H x W x D)	ESTERIOR DIMENSIONS (H x W x D)
C-1	140l	600 x 540 x 430 mm	970 x 600 x 600 mm
C-2	210l	900 x 540 x 430 mm	1228 x 600 x 600 mm
C-3	300l	1300 x 540 x 430 mm	1602 x 600 x 600 mm
C-4	360l	1338 x 670 x 537 mm	1528 x 752 x 710 mm



F SERIES. Refrigerated Incubator with photoperiod

APPLICATIONS

In vitro culture, genetics, entomology and laboratory tests.

PERFORMANCE DATA

- Temperature range from 0° to 45°C.
- Accuracy ±0.3°C.
- Digital display resolution 0.1°C.
- Electronic temperature control.
- Photoperiod and temperature programmer (Day/Night).
- Two bulbs per shelf in Standard model.
- Minimum temperature when lights are on: 10°C.
- Failsafe thermostat.
- Optical and audible alarm.
- 220V interior electrical outlet with protection level IP65.
- Vertical forced airflow.
- PVC interior, acid-resistant and easy to clean.
- Steel exterior with baked enamel finish.
- Optional: LEDs.



MODEL	CAPACITY	INTERIOR DIMENSIONS (H x W x D)	EXTERIOR DIMENSIONS (H x W x D)	LIGHTS
F-1	140l	600 x 540 x 430 mm	970 x 600 x 430 mm	1 shelf of lights
F-2	210l	900 x 540 x 430 mm	1228 x 600 x 600 mm	1 shelf of lights
F-3	300l	1300 x 540 x 430 mm	1602 x 600 x 600 mm	2 shelves of lights
F-4	360l	1338 x 670 x 537 mm	1528 x 752 x 710 mm	2 shelves of lights



G SERIES. Germination Chambers APPLICATIONS

Climatic chambers especially designed for seed germination and rooting.

PERFORMANCE DATA

- Temperature range from 7° to 35°C.
- Accuracy ± 0.3 °C.
- Digital display resolution 0,1°C.
- Saturation humidity 95 - 100%.
- Electronic temperature control.
- 4 standard fluorescent bulbs (3,000 lux).
- Photoperiod and temperature programmer (Day/Night).
- Failsafe thermostat.
- Visual and audible alarm.
- Five shelves.
- Stainless steel interior.
- Steel exterior with baked enamel finish.
- Optional: LEDs.



MODEL	CAPACITY	INTERIOR DIMENSIONS (H x W x D)	EXTERIOR DIMENSIONS (H x W x D)
G-220	220l	600 x 600 x 600 mm	1660 x 900 x 750 mm
G-500	500l	600 x 600 x 1200 mm	1840 x 1350 x 750 mm

COPENHAGEN TABLE APPLICATIONS

Seed germination test.

PERFORMANCE DATA

- Indirect heating through water jacket.
- Temperature range from 10 to 45°C.
- Accuracy ± 0.3 °C.
- Digital read resolution 0.1°C.
- Electronic temperature control.
- Failsafe thermostat.
- Visual and audible alarm.
- Photoperiod and temperature programmer (Day/Night).
- Zenithal lighting.
- Intensity according to needs.
- Useful dimensions: 800 mm x 1800 mm.
- One or two independent working areas.
- Optional: LEDs.





E SERIES. APPLICATIONS

In vitro cultivation of plants, entomology, curing food and other laboratory tests

PERFORMANCE DATA

- Temperature range from 5° to 45°C
- Accuracy $\pm 0.3^{\circ}\text{C}$.
- Digital readout resolution 0.1°C.
- Humidity range from 50 to 85%.
- Humidity accuracy $\pm 2\%$.
- Electronic temperature and humidity regulation
- Illumination (if relevant) vertical (series V), and horizontal (series H).
- Optional LED illumination.
- Vertical air circulation.
- Timeswitch for photoperiod, temperature and humidity (DAY/NIGHT).
- Four lamps on each side in standard configuration (series V).
- Four lamps per tray in standard configuration (series H).
- Minimum temperature with illumination 10°C.
- Safety thermostat in case of temperature faults.
- Optical and acoustic alarm.
- Interior electric socket 220V with IP44 protection.
- Interior and exterior in stainless steel.
- Blind door (standard) or door with glass.
- Two capacities: 600 or 1350 litres.



MODEL	CAPACITY	CONTROLLED PARAMETERS	INTERIOR/USEFUL DIMENSIONS (H x W x D)	EXTERIOR DIMENSIONS (H x W x D)	LIGHTING
E-600-AV	600l	Temperature	1410x600x690 mm. One door	2040x690x1000 mm. One door	-
E-600-BV	600l	Temperature and Photoperiod	1410x600x690 mm. One door	2040x690x1000 mm. One door	Vertical
E-600-BH	600l	Temperature and Photoperiod	1410x600x690 mm. One door	2040x690x1000 mm. One door	Horizontal
E-600-CV	600l	Temperature and RH	1410x600x690 mm. One door	2040x690x1000 mm. One door	-
E-600-DV	600l	Temperature, Photoperiod and RH	1410x600x690 mm. One door	2040x690x1000 mm. One door	Vertical
E-600-DH	600l	Temperature, Photoperiod and RH	1410x600x690 mm. One door	2040x690x1000 mm. One door	Horizontal
E-1350-AV	1350l	Temperature	1410x 2x600 x690 mm. Two doors	2040x1385x850 mm. Two doors	-
E-1350-BV	1350l	Temperature and Photoperiod	1410x 2x600 x690 mm. Two doors	2040x1385x850 mm. Two doors	Vertical
E-1350-BH	1350l	Temperature and Photoperiod	1410x 2x600 x690 mm. Two doors	2040x1385x850 mm. Two doors	Horizontal
E-1350-CV	1350l	Temperature and RH	1410x 2x600 x690 mm. Two doors	2040x1385x850 mm. Two doors	-
E-1350-DV	1350l	Temperature, Photoperiod and RH	1410x 2x600 x690 mm. Two doors	2040x1385x850 mm. Two doors	Vertical
E-1350-DH	1350l	Temperature, Photoperiod and RH	1410x 2x600 x690 mm. Two doors	2040x1385x850 mm. Two doors	Horizontal



M SERIES. APPLICATIONS

Plant cultivation and growth.

PERFORMANCE DATA

- Temperature range from 4° to 40°C.
- Accuracy $\pm 0.3^{\circ}\text{C}$.
- Digital display resolution 0.1°C.
- Humidity range from 30 to 95%.
- Humidity accuracy $\pm 2\%$.
- Electronic adjustment of parameters programmable via touch screen PLC.
- Air renewal.
- Height-adjustable shelves.
- Vertical forced airflow for maximum homogeneity.
- Humidification and dehumidification control.
- Failsafe thermostat.
- Visual and audible alarm.
- Independent light systems in work area.
- Stainless steel and white aluminium interior.
- Steel exterior with baked enamel finish
- Doors with windows and shutters.



MODEL	CULTIVATION AREA	INTERIOR/USEFUL DIMENSIONS (H x W x D)	EXTERIOR DIMENSIONS (H x W x D)
MICROCLIMA - 600	0.66 m ²	800 x 1100 x 600 mm	1000 x 1200 x 1910 mm
MICROCLIMA - 1000	1.04 m ²	1250 x 1300 x 800 mm	1000 x 1850 x 1910 mm
MICROCLIMA – 1000-D Two independent controls	2 x 0.86 m ²	670 x 1280 x 680 mm Two independent cultivation areas	950 x 1910 x 2100 mm

OPTIONS

- Different temperature ranges, according to special needs.
- Other lighting systems (LEDs, sodium vapor, etc.)
- Setting of light intensity.
- Temperature, Relative Humidity and CO₂ recorders.
- Independent CO₂ control.
- Sunrise/sunset simulation.
- Real-time parameter monitoring system.

WALK-IN CHAMBERS

“TURN KEY”

IBERCEX offers “turn key” chambers highly customizable in accordance with the user's real needs.



GENERAL FEATURES

- Sandwich-type removable panel with different thicknesses, filled with high pressure-injected polyurethane foam, and a density of 45 kg/m³.
- Thermal conductivity ratio: 0.021 Kcal/h·m·°C.
- Panel assembly through high-resistance ABS eccentric boxes with reinforced hook ensuring a correct join and a sealed system.
- Concave corner and section knots for easier cleaning
- Neoprene-band edges to absorb pressure changes.

BREEDING AND CULTIVATION CHAMBERS (ANIMALS AND PLANTS)

- Temperature range: 10°C to 50°C.
- Accuracy ±0.3°C.
- Customizable lighting.
- P.I.D. control system.

FREEZING CHAMBERS

- Temperature range: 0°C to -40°C.
- Accuracy ±0.3°C.
- P.I.D. control system.
- Programmable defrosting.

COLD/HOT CHAMBERS

- Working temperature: 0°C to 50°C.
- Accuracy ±0.3°C.
- P.I.D. control system.

OPTIONS

- Relative humidity control.
- Customizable lighting system (LEDs, sodium vapor, etc.)
- Automatic lighting control with photoperiod.
- Programmable irrigation.
- Insulated stainless steel panels.
- Non-slip flooring.
- CO₂ control.
- Real-time parameter monitoring system.
- Height adjustable working carts.
- Customizable shelves (different materials and dimensions) with or without lights.



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