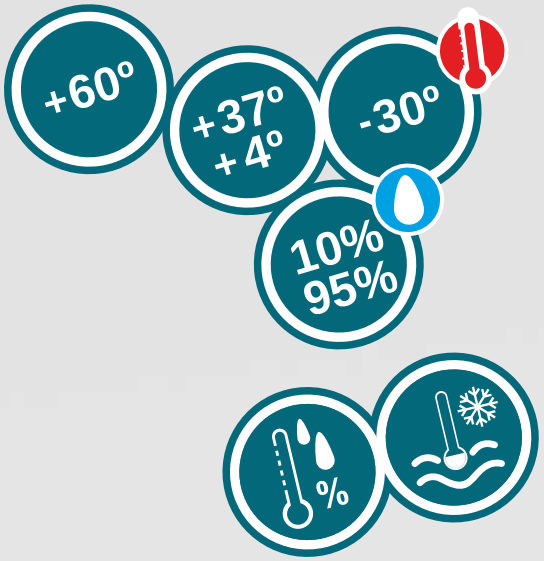
EQUITEC

- CHAMBERS FOR CLIMATE TESTS
- CHAMBERS WITH HORIZONTAL FLOW FOR ICH TESTS
- CHAMBERS FOR DRUG STABILITY TESTS
- PHOTO-STABILITY TESTS
- FROST FORMATION
- DROSOPHILA AND INSECT INVESTIGATION
- HIGH CAPACITY INCUBATORS
- LOW TEMPERATURE CHAMBERS
- TISSUE CULTURE



USB connection

EQUITEC SERIES 4000 CONTROLLER

ICH NANODAC CONTROL TEST

COLD - HEAT - HUMIDITY

Our products and applications:

- Chambers and rooms for climatic tests
- Horizontal flow chambers for ICH tests
- Stability test chambers for drugs
- Photo-stability tests
- Food and beverage control
- Algae growth
- Frost formation
- Atex controlled test chambers
- Drosophila and insect research
- High capacity incubators
- Growth with LED light
- Low temperature chambers
- Tissue growth
- Walk in culture chambers
- Freezing chambers
- Vaccine storage
- Controlled storage

WALK IN CHAMBERS FOR STABILITY TESTS

- Temperature range from -30ºC to +60ºC.
- Humidity range: working range from 20% to 95% RH.
- Graphic 4.3" control panel with optional 7.0" TFT touchscreen.
- Electronic data recorder with graphic data representation and USB output for data download.
- Temperature and/or humidity control.
- Optional: light intensity control, day/night photoperiods.
- Probe with a precision of 0.1ºC.
- Homogeneity of +/- 0.1ºC at 27ºC and of +1.5ºC at 40ºC.
- Stability of +/- 0.1 at +27ºC and of +/- 0.5 at +40ºC inside of the chamber.
- Microprocessor for parameter control and PID parameters programming.
- Optional: control according to FDA CFR 21 part 11.
- Humidifying system by ultrasound, electrodes or sprayers.
- Thermostat controlled heater, to protect the samples and the chamber.
- Product protection with tmin/tmax.

OPTIONAL ACCESSORIES

- Video recorder (without paper), according to CFR part 11 of the FDA.
- Pharmaceutical software with recording and measurement of values.
- Height-adjustable custom shelves, loading cart and roll on-roll off.
- Light tubes for algae growth.
- Tubes for plant growth on the trays or on the top.
- Tubes with different LED diode configuration.
- Digital printer for temperature values and/or humidity control.
- Remote alarm control output (4-20 mA).
- RS 485 interface connection + communication protocols.
- Additional access ports for cables and tubes.
- Internal plugs.
- GSM phone alarm module.
- UV light tubes for sterilization.
- Data recorder.
- Wi-Fi module with Ethernet connection + web visualization.
- 72h battery backup for power failures.
- Ethernet connection.
- USB port, to download stored data.
- PC communication software, under demand.
- CO_2 measurement system by infrarred or thermal sensor.
- Irrigation systems.

HORIZONTAL FLOW CHAMBERS FOR ICH STABILITY TESTS

WITH/WITHOUT HUMIDITY CONTROL

CLIMATE TEST CHAMBERS
WITH OR WITHOUT HUMIDITY CONTROL

EICHS, ICH AND EICHS MODELS FROM +4ºC TO +60ºC
HUMIDITY RANGE FROM 20% TO 90% HR

UNIFLOW

From +4º to +60ºC
From 20% to 90% HR

EICHS ICH 701 HR

CLIMATE TEST LABORATORY CHAMBERS AT A CONSTANT TEMPERATURE AND HUMIDITY (EICHS ICH AND EICHS MODELS)

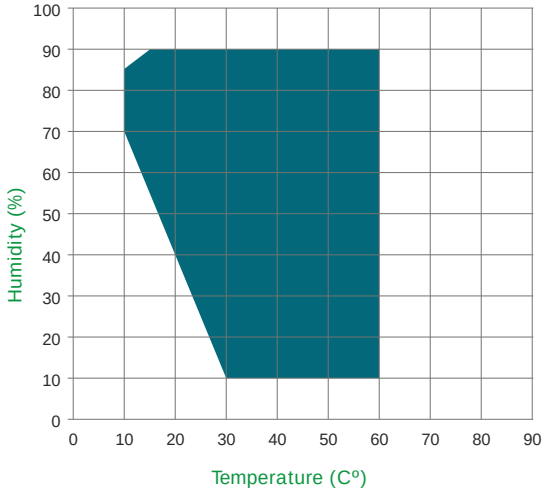
- Incorporates series 4000 controller in EICS models, Nanodac in EICHS ICH test models, with graphic data representation.
- 4.3" TFT touchscreen for temperature and/or humidity control with graphic temperature and/or humidity representation +/- 0.1ºC precision on the display.
- Homogeneity of +/- 1.0ºC inside of the chamber at 37ºC.
- Stability of +/- 0.5ºC inside of the chamber at 37ºC.
- Cooling system controlled by solenoid electrovalves.
- Safety thermostat, to protect the samples against high temperatures.
- The microprocessor's control parameters control the temperature through a Pt100 probe, with a resolution of +/-0.1ºC.
- Control system with battery backup and automatic recharge, for up to 48h.
- Humidity control: from 20% and 90% (+/- 3% HR), in a temperature range between +19ºC and +40ºC, in EICHS ICH models (in HR models, please see table).
- Electronic probe (4-20mA) with an accuracy of +/- 2% HR (1.0% HR optionally).
- Ultrasound humidity generator, introducing microscopic water droplets inside of the chamber at room temperature (electrode system optionally).
- Drying system by condensation (cooling).

EICHS ICH / HR

ICH Nanodac controller for tests

TECHNICAL SPECIFICATIONS

- Internal thermal door, with hermetic closing.
- Solid external door.
- Microprocessor for control parameters with PID system.
- Audible and visible independent alarms, for maximum and minimum temperatures, with NiCd battery backup, for more than 48h of battery life (72h optionally).
- System settings protected by numeric password.
- The controller stores the max/min temperature values with their graphical representation.
- Optional: external double glass door with large handle.
- Forced air refrigeration, distributed uniformly horizontally, with a high temperature homogeneity inside of the chamber.
- High density 60mm polyurethane inuslation (CFC and HCFC free).
- R404 cooling gas, CFC and HCFC free, biodegradable.
- Hermetic compressor mounted over dampers, to reduce noise levels.
- Independent cooling and heating systems.
- AISI 304 stainless steel internal finish.
- Rounded corners, for easy cleaning.
- Height-adjustable perforated stainless steel shelves.
- Magnetic gasket on the external door, to ensure a better door closing.
- Access ports, to introduce cables and external instruments.
- Epoxy coated steel external finish.
- Height-adjustable stainless steel feet.
- Base with 4 wheels, for easy movement.
- Tropicalization, to allow work up to +32ºC room temperature.



Current adaptor: 220V/230V/50Hz, alternatively 110V/115 V/60Hz or 220V/240V 60 Hz | 1 cubic foot: 28.3 litres | 1 inch: 25.4 mm

EQUITEC

CHAMBERS FOR CLIMATE AND STABILITY TESTS

WITH OR WITHOUT HUMIDITY CONTROL
MODELS WITH HORIZONTAL AIRFLOW

CHAMBERS FOR STABILITY TESTS WITH OR WITHOUT HUMIDITY CONTROL

EICHS MODELS
FROM +4ºC TO +60ºC
HUMIDITY RANGE
FROM 20% TO 90% HR

- ***LONG DURATION TESTS***
  at +25ºC / 60% HR or +30ºC / 65% HR
- ***FAST TESTS***
  at +40ºC / 75% HR
- ***INTERMEDIATE DURATION TESTS***
  at +30ºC / 65% HR

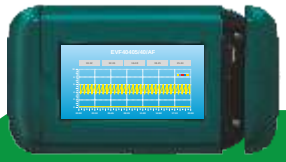
UNIFLOW

From +4º to +60ºC
From 20% to 90% HR

EICHS 1501 HR

OPTIONAL ACCESSORIES
FOR EICHS ICH, EICHSICH/HR, EICHS and EICHS/HR

- Security thermostat, to protect the samples against high/low temperatures.
- Humidity generator up to +90ºC HR.
- Air drying system up to 15% HR at +4ºC.
- Audible and visible independent alarms, for maximum and minimum temperatures, with NiCd battery backup, for more than 48h of battery life (72h optional).
- Circular chart recorder for 7 days, with an independent battery backup.
- USB port to store system data.
- RS 485/232 interface connection for remote control .
- PC software on demand.
- Potential free output for remote alarm control.
- Programmable test times by digital controller.
- UV light tubes for sterilization.
- Plugs inside of the chamber.
- Telescopic trays, to locate instruments.
- Access ports, to introduce cables and external instruments.
- Thermal glass door, with heated frame in models with humidity control or lower temperatures.
- Stainless steel external finish .
- Optional models for ICH stability tests.
  For more details, please contact us.



Series 4000 controller

- 4.3" TFT touchscreen (7.0" optionally) with graphic data representation. GSM phone alarm module (optional).
- RS 485 connection for remote control (optional).
- Ethernet output, to monitor data by cable (MODBUS TCP/ICP) or though a wireless module, including specific software for data control and visualization (optional).
- Battery backup for at least 48h (72h optionally).

Nanodac controller for EICHS ICH test models

- Graphic data representation. GSM phone alarm module (optional).
- RS 485 connection for remote control (optional).
- Ethernet output, to monitor data by cable (MODBUS TCP/ICP) or though a wireless module, including specific software for data control and visualization (optional).
- Battery backup for at least 48h (72h optionally).

EICS 1501 HR

SERIE 4000 CONTROLLER

ICH MODELS WITH HUMIDITY CONTROL	ICH MODELS WITHOUT HUMIDITY CONTROL	HORIZONTAL MODELS WITH HUMIDITY CONTROL	H. MODELS WITHOUT HUMIDITY CONTROL	CAPACITY (litres) NET/GROSS CAPACITY	GRAPHIC CONTROLLER	No. OF SHELVES	INTERNAL GLASS DOOR	ACCESS PORTS	SECURITY THERMOSTAT	COMPRESSOR HP	INTERNAL/EXTERNAL FINISH	INTERNAL DIMENSIONS (mm) (width x length x height)	EXTERNAL DIMENSIONS (mm) (width x length x height)
EICHS ICH 351 HR	EICHS ICH 351	EICHS 351 HR	EICHS 351	290/351	✓	2	✓	✓	✓	1/2	S*/Epoxy	820 x 540 x 660	925 x 800 x 1140
EICHS ICH 501 HR	EICHS ICH 501	EICHS 501 HR	EICHS 501	430/501	✓	3	✓	✓	✓	3/8	S*/Epoxy	640 x 600 x 1100	850 x 800 x 1730
EICHS ICH 701 HR	EICHS ICH 701	EICHS 701 HR	EICHS 701	520/701	✓	4	✓	✓	✓	3/8	S*/Epoxy	640 x 600 x 1350	850 x 800 x 1980
EICHS ICH 941 HR	EICHS ICH 941	EICHS 941 HR	EICHS 941	730/940	✓	4	✓	✓	✓	3/8	S*/Epoxy	640 x 890 x 1350	850 x 1100 x 1980
EICHS ICH 1501 HR	EICHS ICH 1501	EICHS 1501 HR	EICHS 1501	1220/1501	✓	4+4	✓	✓	✓	3/8	S*/Epoxy	1500 x 600 x 1350	1700 x 800 x 1980
EICHS ICH 2201 HR	EICHS ICH 2201	EICHS 2201 HR	EICHS 2201	1800/2201	✓	4+4	✓	✓	✓	3/8	S*/Epoxy	1500 x 890 x 1350	1700 x 1100 x 1980

Current adaptor: 220V/230V/50Hz, alternatively 110V/115 V/60Hz or 220V/240V 60 Hz | 1 cubic foot: 28.3 litres | 1 inch: 25.4 mm

VERTICAL AIRFLOW CHAMBERS FOR CLIMATIC AND STABILITY TESTS

WITH OR WITHOUT HUMIDITY CONTROL

From +4º to +60ºC
From 20% to 90% HR

Optionally
From -10º/-20º/-30º
to +60ºC

CLIMATIC TEST CHAMBERS WITH OR WITHOUT HUMIDITY CONTROL

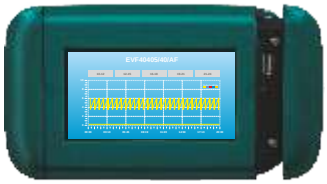
EICS MODELS
FROM +4ºC TO +60ºC
HUMIDITY RANGE
FROM 20% TO 90% HR

FROM -10º/-20º/-30ºC
TO +60ºC OPTIONALLY
WITHOUT HUMIDITY
CONTROL

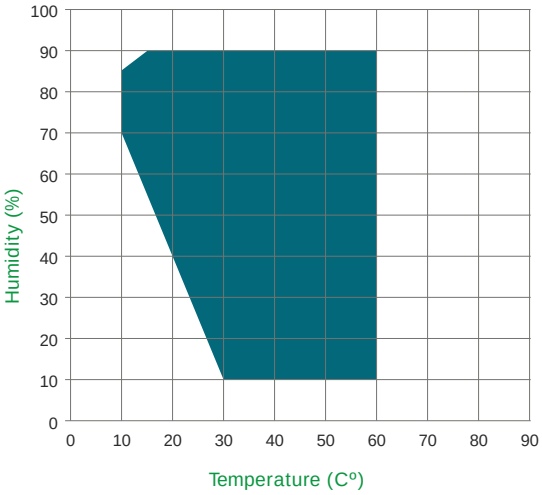
EICS 701 HR

LABORATORY CLIMATE TEST CHAMBERS AT A CONSTANT TEMPERATURE (EICS MODELS)

- Including series 4000 controller, with graphic temperature representation.
- 4.3" TFT touchscreen for temperature and/or humidity control (EICS/HR models incorporate humidity control) with graphic temperature and/or humidity representation.
- +/- 0.1ºC precision on the display.
- Homogeneity of +/- 1.5ºC inside of the chamber at 37ºC.
- Stability of +/- 0.75ºC inside of the chamber at 37ºC.
- Cooling system controlled by solenoid electrovalves.
- Safety thermostat, to protect the samples against high temperatures.
- The microprocessor's control parameters control the temperature through a NTC probe, with a resolution of +/-0.15ºC.
- Control system with battery backup and automatic recharge, for up to 48h.
- Humidity control: from 20% and 90% (+/- 3% HR), in a temperature range between +19ºC and +40ºC, in EICS ICH models.
- Electronic probe (4-20mA) with an accuracy of +/- 2% HR.
- Ultrasound humidity generator, introducing microscopic water droplets inside of the chamber at room temperature (electrode system optionally).
- Drying system by condensation (cooling).



Series 4000 controller



TECHNICAL SPECIFICATIONS

- Internal thermal door, with hermetic closing (models up to -10º/-20º/-30ºC do not include internal glass door).
- Solid external door, with opening aids and big sized handle.
- Microprocessor for control parameters with PID system.
- Audible and visible independent alarms, for maximum and minimum temperatures, with NiCd battery backup for more than 48h of battery life (72h optionally).
- System settings protected by numeric password.
- The controller stores the max/min temperature values with their graphical representation.
- Optional: external double glass door with large handle.
- EICS models include forced air refrigeration (distributed uniformly vertically), and have a high temperature homogeneity inside of the chamber.
- High density 60mm polyurethane inuslation (CFC and HCFC free).
- R404 cooling gas, CFC and HCFC free, biodegradable.
- Hermetic compressor mounted over dampers, to reduce noise levels.
- Independent cooling and heating systems.
- AISI 304 stainless steel internal finish.
- Rounded corners, for easy cleaning.
- Height-adjustable perforated stainless steel shelves.
- Heated door frame, to ensure an ice free door closing, in models up to -10º/-20º/-30ºC.
- Magnetic gasket on the external door, to ensure a better door closing.
- Access ports, to introduce cables and external instruments.
- Epoxy coated steel external finish.
- Height-adjustable stainless steel feet.
- Base with 4 wheels, for easy movement.
- Tropicalization, to allow work up to +32ºC room temperature.

EICS 701

Current adaptor: 220V/230V/50Hz, alternatively 110V/115 V/60Hz or 220V/240V 60 Hz | 1 cubic foot: 28.3 litres | 1 inch: 25.4 mm

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CLIMATE AND STABILITY TEST CHAMBERS WITH VERTICAL AIRFLOW

WITH OR WITHOUT HUMIDITY CONTROL

From +4º to +60ºC
From 20% to 90% HR

Optionally
From -10º/-20º/-30º
to +60ºC

CLIMATE TEST CHAMBERS WITH OR WITHOUT HUMIDITY CONTROL

EICS MODELS
FROM +4ºC TO +60ºC
HUMIDITY RANGE
FROM 20% TO 90% HR

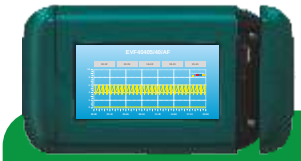
FROM -10º/-20º/-30ºC
TO +60ºC
OPTIONALLY
WITHOUT HUMIDITY
CONTROL

EICS 941 C HR

Optional:
Glass door with heated frame and humidity control

OPTIONAL ACCESSORIES
FOR EICS, EICS/HR, ERIS and ERIS/HR MODELS

- Security thermostat, to protect the samples against high/low temperatures.
- Humidity generator up to +90ºC HR.
- Air drying system up to 15% HR at +4ºC.
- Audible and visible independent alarms, for maximum and minimum temperatures, with NiCd battery backup for more than 48h of battery life (72h optionally).
- Circular chart recorder for 7 days, with an independent battery backup.
- USB port to store system data.
- RS 485/232 interface connection for remote control .
- PC software on demand.
- Potential free output for remote alarm control.
- Programmable test times by digital controller.
- UV light tubes for sterilization.
- Plugs inside of the chamber.
- Telescopic trays, to locate instruments.
- Access ports to introduce cables and external instruments.
- Thermal glass door, with heated frame in models with humidity control or lower temperatures.
- Stainless steel external finish.
- Optional models for ICH stability tests.
  For more details, please contact us.



Series 4000 controller

- 4.3" TFT touchscreen (7.0" optionally) with graphic data representation.
- GSM phone alarm module (optional).
- RS 485 connection for remote control (optional).
- Ethernet output, to monitor data by cable (MODBUS TCP/ICP) or though a wireless module, including specific software for data control and visualization (optional).
- Battery backup for at least 48h (72h optionally).

EICS 1501 HR

SERIES 4000 CONTROLLER

VERTICAL MODELS WITHOUT HUMIDITY CONTROL	VERTICAL MODELS WITH HUMIDITY CONTROL	CAPACITY (litres) NET/GROSS CAPACITY	GRAPHIC CONTROLLER	No. OF SHELVES	INTERNAL GLASS DOOR	ACCESS PORTS	SECURITY THERMOSTAT	COMPRESSOR HP	INTERNAL/ EXTERNAL FINISH	INTERNAL DIMENSIONS (mm) (width x length x height)	EXTERNAL DIMENSIONS (mm) (width x length x height)
EICS 351	EICS 351 HR	290/351	✓	2	✓	✓	✓	1/2	SS*/Epoxy	820 x 540 x 660	925 x 800 x 1140
EICS 501	EICS 501 HR	430/501	✓	3	✓	✓	✓	3/8	SS*/Epoxy	640 x 600 x 1100	850 x 800 x 1730
EICS 701	EICS 701 HR	520/701	✓	4	✓	✓	✓	3/8	SS*/Epoxy	640 x 600 x 1350	850 x 800 x 1980
EICS 941	EICS 941 HR	730/940	✓	4	✓	✓	✓	3/8	SS*/Epoxy	640 x 890 x 1350	850 x 1100 x 1980
EICS 1501	EICS 1501 HR	1220/1501	✓	4+4	✓	✓	✓	3/8	SS*/Epoxy	1500 x 600 x 1350	1700 x 800 x 1980
EICS 2201	EICS 2201 HR	1800/2201	✓	4+4	✓	✓	✓	3/8	SS*/Epoxy	1500 x 890 x 1350	1700 x 1100 x 1980

*Current adaptor: 220V/230V/50Hz, alternatively 110V/115 V/60Hz or 220V/240V 60 Hz | *Stainless steel | 1 cubic foot: 28.3 litres | 1 inch: 25.4 mm*

VERTICAL FLOW CHAMBERS FOR CLIMATE TESTS AND BASIC STABILITY TESTS

VERTICAL FORCED AIR MODELS

From -10º to +55ºC
From 20% to 90% HR

PROFESSIONAL MULTI-PURPOSE LABORATORY INCUBATORS, WITH FORCED AIR REFRIGERATION

ERIS MODELS
FROM +4ºC TO +55ºC
FROM -10ºC TO +55ºC
OPTIONALLY

ERIS 855

Model with optional wheels

ERIS 1501

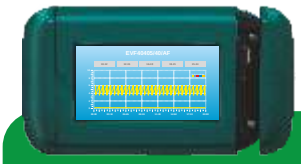
MULTI-PURPOSE REFRIGERATED INCUBATORS (ERIS MODELS) TECHNICAL SPECIFICATIONS

- Vertical forced air refrigeration system, distributed uniformly, with a high homogeneity inside of the chamber.
- PID microprocessor, to control all parameters, with fuzzy logic, to ensure a high temperature stability inside of the chamber.
- Temperature range from +4ºC to +55ºC, from -10ºC to +55ºC optionally.
- Security thermostat, to protect the samples against high temperatures.
- +/- 0.1ºC precision on the display.
- Homogeneity of +/- 1.5ºC inside of the chamber at 37ºC.
- Stability of +/- 0.85ºC inside of the chamber at 37ºC.
- NTC probe for temperature control.
- Independent heating and cooling systems.

Model with circular chart recorder and optional wheels

TECHNICAL SPECIFICATIONS FOR ERIS AND ERIS/HR MODELS

- Includes series 4000 controller with graphic data representation and temperature range from +4ºC to +55ºC (from -10ºC to +55ºC optionally).
- 4.3" TFT touchscreen with graphic data representation of temperature and humidity curves.
- Independent audible and visible alarms, for maximum and minimum temperatures, probe and power failure.
- NiCd battery backup (battery life up to 48h), with charger.
- Control panel protection with password
- Solid door models with opening aids and big sized handle
- LED internal illumination with a separate switch
- "C" models on the data table include double thermal glass door (with heated door frame in models with humidity control and low temperature).
- Right or left door opening (please specify on the order).
- Security lock with keys.
- R404a or R134a cooling gas, CFC and HCFC free, biodegradable.
- Hermetic compressor built over dampers, to reduce noise levels.
- AISI 304 stainless steel internal and external finish.
- Rounded corners, for easy cleaning.
- Height-adjustable plastic coated steel rod shelves (stainless steel optionally).
- Magnetic perimeter gasket on the door, to ensure a hermetic door closing.
- Insulation of 60 mm high density, CFC and HCFC free, polyurethane.
- Height-adjustable stainless steel feet.
- Tropicalization, to allow work up to +32ºC room temperature.



Series 4000 controller

- 4.3" TFT touchscreen (7.0" optionally) with graphic data representation.
- GSM phone alarm module (optional)
- RS 485 connection for remote control (optional)
- Ethernet output, to monitor data by cable (MODBUS TCP/ICP) or though a wireless module, including specific software for data control and visualization (optional)
- Battery backup for at least 48h (72h optionally)

EQUITEC

REFRIGERATED INCUBATORS
VERTICAL FORCED AIR MODELS

From -10º to +55ºC
From 20% to 90% HR

MULTIPURPOSE LABORATORY INCUBATORS WITH FORCED AIR COOLING AND HUMIDITY CONTROL

ERIS/HR MODELS
FROM +4ºC to +55ºC

HUMIDITY RANGE
FROM 20% to 90% HR

FROM +4ºC to +55ºC
OPTIONALLY

ERIS 1345 HR

ERIS/HR MODELS
TECHNICAL SPECIFICATIONS

- Humidity control: working range from 20% to 90% HR (+/-3%) in a temperature range from +19ºC to +40ºC.
- Forced air cooling system, distributed vertically, with a high homogeneity inside of the chamber.
- PID microprocessor, to control parameters, ensuring a high temperature stability.
- Temperature range from +4ºC to +55ºC, from -10ºC to +55ºC optionally.
- 4.3" TFT touchscreen with graphic data representation of temperature and humidity curves.
- +/- 0.1ºC precision on the display.
- Homogeneity of +/- 1.5ºC inside of the chamber at 37ºC.
- Stability of +/- 0.85ºC inside of the chamber at 37ºC.
- Independent cooling and heating systems.
- NTC probe for temperature control.
- Electronic probe (4-20 mA) for humidity control, with a precision of +/- 2% HR.
- Ultrasound, centrifugation or vapor humidity generator, introducing microscopic water droplets inside of the chamber at room temperature.
- Drying system by condensation with refrigerator.

ERIS 1345 C

Model with optional circular recorder

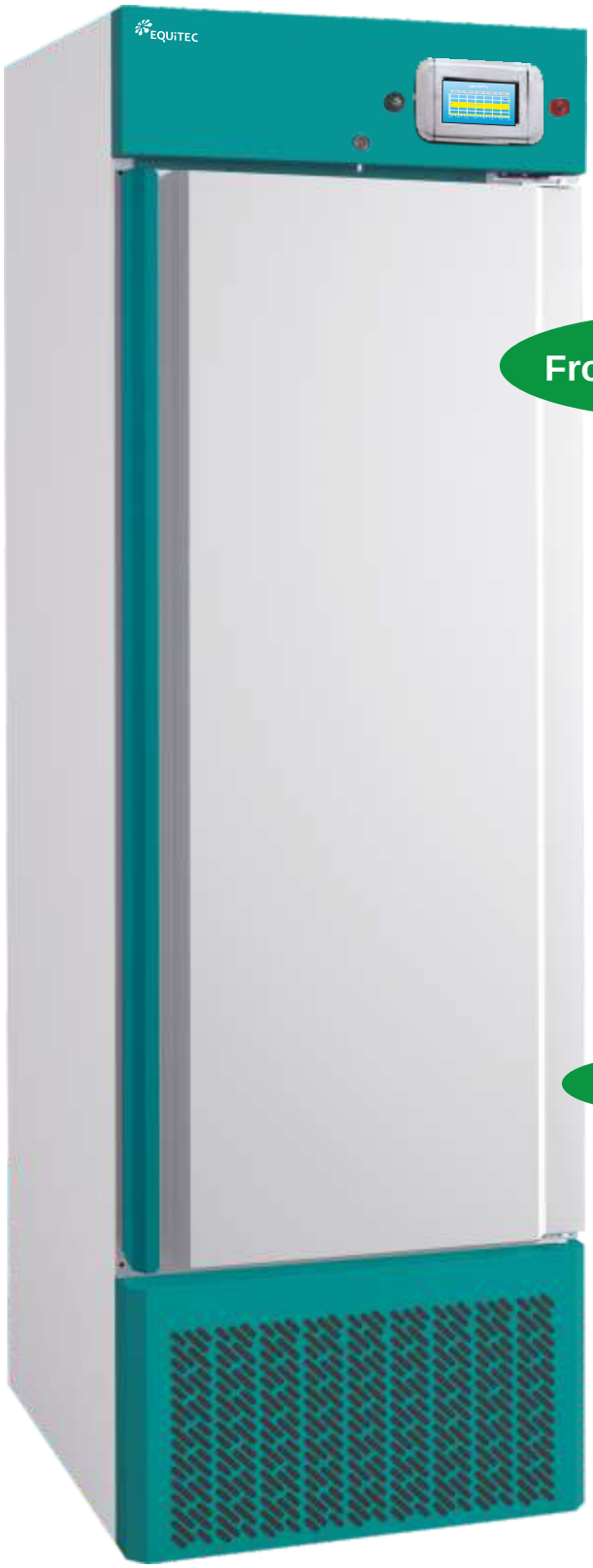
OPTIONAL ACCESSORIES:

see page 11

MODELS	GLASS DOOR MODELS	MODELOS CON CONTROL DE HUMEDAD	CAPACITY (litres) NET/GROSS CAPACITY	GRAPHIC CONTROLLER	SECURITY THERMOSTAT	No. OF SHELVES	ACCESS PORTS	COMPRESSOR HP	INTERNAL/ EXTERNAL FINISH	INTERNAL DIMENSIONS (mm) (width x length x height)	EXTERNAL DIMENSIONS (mm) (width x length x height)
ERIS 325			325	✓	✓	3	✓	1/4	SS*	362 x 588 x 1412	482 x 695 x 2100
	ERIS 325 C		325	✓	✓	3	✓	1/4	SS*	362 x 588 x 1412	482 x 695 x 2100
		ERIS 325 HR	325	✓	✓	3	✓	1/4	SS*	362 x 588 x 1412	482 x 695 x 2100
ERIS 525			525	✓	✓	4	✓	5/8	SS*	567 x 689 x 1339	687 x 794 x 1989
	ERIS 525 C		525	✓	✓	4	✓	5/8	SS*	567 x 689 x 1339	687 x 794 x 1989
		ERIS 525 HR	525	✓	✓	4	✓	5/8	SS*	567 x 689 x 1339	687 x 794 x 1989
ERIS 855			855	✓	✓	4	✓	1	SS*	637 x 851 x 1529	757 x 960 x 2130
	ERIS 855 C		855	✓	✓	4	✓	1	SS*	637 x 851 x 1529	757 x 960 x 2130
		ERIS 855 HR	855	✓	✓	4	✓	1	SS*	637 x 851 x 1529	757 x 960 x 2130
ERIS 1345			1345	✓	✓	4+4	✓	1	SS*	1264 x 689 x 1529	1385 x 794 x 2133
	ERIS 1345 C		1345	✓	✓	4+4	✓	1	SS*	1264 x 689 x 1529	1385 x 794 x 2133
		ERIS 1345 HR	1345	✓	✓	4+4	✓	1	SS*	1264 x 689 x 1529	1385 x 794 x 2133

*Current adaptor: 220V/230V/50Hz, alternatively 110V/115 V/60Hz or 220V/240V 60 Hz | *Stainless steel | 1 cubic foot: 28.3 litres | 1 inch: 25.4 mm*

REFRIGERATED INCUBATORS
VERTICAL FORCED AIR MODELS



From +4º to +50ºC

FORCED AIR REFRIGERATED LABORATORY INCUBATORS

ERI MODELS
From +4ºC to +50ºC

ERIS 40405

Model with series 4000 controller, with graphic screen

ERIS 40255

TECHNICAL SPECIFICATIONS

- Forced air refrigeration system.
- PID microprocessor, to control parameters.
- Temperature range from +4ºC to +50ºC, from -10ºC to +60ºC optionally.
- Security thermostat to protect the samples against high temperatures.
- Audible and visible alarms for maximum and minimum temperatures.
- Liquid crystal backlit screen, to control temperature and parameters.
- +/- 0.1ºC precision on the display.
- Homogeneity of +/- 1.0ºC inside of the chamber at 40ºC.
- Stability of +/- 0.5ºC inside of the chamber at 40ºC.
- Pt 100 probe, for temperature control.
- Independent heating and cooling systems.
- Optional: internal glass door with independent lock.
- External solid door with opening up to 180º, with handle (opening) on the right.
- Main switch (ON/OFF) protected with lock.
- Control panel with touchscreen.
- Test times controlled by PID with programmable periods.
- Internal illumination with separate switch.
- Alarm stop switch, stops when the programmed temperature is reached.
- Access ports for cable and probe access, to connect internal/external instruments.
- Flapped heater, to improve temperature distribution.
- Independent heating and cooling systems.
- Forced air cooling with vertical airflow, distributed uniformly, allowing a higher temperature homogeneity in the air inside of the chameber.
- R134a cooling gas, CFC and HCFC free.
- Hermetic compressor, built over dampers, to reduce noise levels.
- Evaporator with defrost.
- External epoxy coated steel finish.
- Stainless steel internal finish.
- Rounded corners, for easy cleaning.
- Magnetic perimeter gasket, ensuring a perfect door closing 40 or 50 mm high density injected polyurethane insulation, CFC and HCFC free.

Includes polycarbonate drawers, with transparent frontal and series 4000 controller

Internal plugs for instrument connection

OPTIONAL ACCESSORIES:

see page 11

SERIES 4000 CONTROLLER

SOLID DOOR MODELS	GLASS DOOR MODELS	CAPACITY (litres) NET/GROSS CAPACITY	No. OF SHELVES	GRAPHIC CONTROLLER	CIRCULAR RECORDER	ALARM REMOTE CONTROL	ACCESS PORTS	POWER FAILURE	INSULATION (mm)	COMPRESSOR HP	INTERNAL/ EXTERNAL FINISH	INTERNAL DIMENSIONS (mm) (width x length x height)	EXTERNAL DIMENSIONS (mm) (width x length x height)
ERIS 40145 C	ERIS 40145	145	2	✓	✓	✓	✓	✓	1/5	40	Inox/Epoxi	510 x 475 x 555	600 x 595 x 820
ERIS 40255 C	ERIS 40255	255	4	✓	✓	✓	✓	✓	1/5	50	Inox/Epoxi	540 x 484 x 855	670 x 655 x 1530
ERIS 40405 C	ERIS 40405	405	8	✓	✓	✓	✓	✓	1/4	50	Inox/Epoxi	570 x 484 x 1470	670 x 655 x 1955
ERIS 40615 C	ERIS 40615	615	8	✓	✓	✓	✓	✓	1/3	50	Inox/Epoxi	577 x 690 x 1529	687 x 795 x 2130
ERIS 41345 C	ERIS 41345	1345	8+8	✓	✓	✓	✓	✓	1/3	50	Inox/Epoxi	1275 x 690 x 1529	1385 x 795 x 2130

Current adaptor: 220V/230V/50Hz, alternatively 110V/115 V/60Hz or 220V/240V 60 Hz | 1 cubic foot: 28.3 litres | 1 inch: 25.4 mm

LABORATORY INCUBATORS
WITH SPECIAL DESIGN
FOR DBO AND SMALL APPLICATIONS,
WITH HUMIDITY CONTROL

ERIS / DBO MODELS

From +4º to +50ºC

Model with 2 internal plugs

ERIS 341 DBO HR

with series 4000 controller
with touchscreen

TECHNICAL SPECIFICATIONS

- Forced air refrigeration system.
- PID microprocessor, to control system parameters.
- Temperature range from +4ºC to +50ºC,
- Digital controller with LED screen, to indicate temperature and control parameters.
- Optionally for ERIS DBO models: 4.3" TFT touchscreen with graphic data representation of the temperature and humidity curves.
- +/- 0.1ºC precision on the display.
- Homogeneity of +/- 1.5ºC inside of the chamber at 37ºC.
- Stability of +/- 0.85ºC inside of the chamber at 37ºC.
- NTC probe for temperature control.
- Safety lock with keys.
- Main switch (ON/OFF) protected with lock.
- Hermetic compressor, built over dampers, to reduce noise levels.
- R134a cooling gas, CFC and HCFC free, biodegradable.
- Refrigeration system by electrovalves.
- One piece ABS (thermoformed polypropylene) internal finish, very resistant.
- Epoxy coated steel external finish.
- Models with solid door.
- Internal plugs, to connect instruments inside of the chamber (only in models without humidity control).
- Internal illumination with a separate switch (optional).
- Right or left set opening (factory settings, please specify in the order).

In optional models ERIS DBO: series 4000 controller

- 4.3" TFT touchscreen (7.0" optionally) with graphic data representation
- GSM phone alarm module (optional)
- RS 485 connection for remote control (optional)
- Ethernet output, to monitor data by cable (MODBUS TCP/ICP) or though a wireless module, including specific software for data control and visualization (optional)
- Battery backup for at least 48h (72h optionally)

- Height-adjustable feet.
- Insulation of 50 mm high density, CFC and HCFC free, injected polyurethane.
- Tropicalization, to allow work up to +32ºC room temperature.

OPTIONAL ACCESSORIES FOR ALL ERI MODELS

- External glass door with double thermal glass.
- Audible and visible independent alarms for maximum and minimum temperatures and open door.
- Audible and visible independent alarms for probe and power failures, with battery backup (battery life over 48h), including charger.
- Keyboard protection with numeric password.
- Circular chart temperature and/or humidity controller, powered by an independent battery backup.
- High/low temperature records.
- Access ports for cables, probes and to connect external/internal instruments.

- Base with 4 wheels, for easy movement.
- Humidity control from 20% to 90% HR by ultrasounds, centrifugation and vapor generation optionally in ERIS HR models.
- Series 4000 controller with 4.3" TFT touchscreen, with graphical representation in ERIS models.
- GSM alarm module (optional).
- RS 485 connection, for data lecture.
- Ethernet output, to monitor data by cable (MODBUS TCP/ICP) or by wireless module, including specific software for data visualization and control (optional).

SERIES QB CONTROLLER

BASIC MODELS	MODELS WITH HUMIDITY CONTROL	CAPACITY (litres)	DIGITAL CONTROLLER	No. OF SHELVES	INTERNAL PLUGS (only in models with humidity control)	ACCESS PORTS	COMPRESSOR HP	INTERNAL/ EXTERNAL FINISH	INTERNAL DIMENSIONS (mm) (width x length x height)	EXTERNAL DIMENSIONS (mm) (width x length x height)
ERI 54 DBO	ERI 54 DBO HR	54	✓	1	2	✓	1/6	ABS/Epoxy	455 x 310/200 x 410	540 x 505 x 629
ERI 140 DBO	ERI 140 DBO HR	140	✓	2	2	✓	1/5	ABS/Epoxy	530 x 410/330 x 650	593 x 620 x 832
ERI 182 DBO	ERI 182 DBO HR	180	✓	2	2	✓	1/5	ABS/Epoxy	530 x 410/330 x 650	593 x 620 x 832
ERI 344 DBO	ERI 344 DBO HR	344	✓	4	4	✓	1/4	ABS/Epoxy	475 x 470 x 1415	590 x 645 x 1820
ERI 554 DBO	ERI 554 DBO HR	554	✓	4	4	✓	1/4	ABS/Epoxy	625 x 545 x 1600	750 x 755 x 2000

Current adaptor: 220V/230V/50Hz, alternatively 110V/115 V/60Hz or 220V/240V 60 Hz | 1 cubic foot: 28.3 litres | 1 inch: 25.4 mm

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08/17

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