

Option EIXS Series

Construction: Rollers

- Set of 4 castors, 2 with brakes (included in all models except the 190L and 350L model)
- Set of 4 castors, 4 with leveling foot

Construction: Doors and interior doors

- Three-layered glass door
- Double rear door, pass-through chamber (1 rear door and 1 front door, 2 appliances required for double door models)
- Outer Door with window(s)

Construction: Access ports

- Additional wall duct \varnothing 40 mm for pipes and cables
- Additional wall duct \varnothing 24 mm for pipes and cables
- Other additional wall ducts \varnothing xxx mm for pipes and cables

Construction: Special requirements

- Internal chamber safety, according to ATEX
- Tropicalization, up to an ambient temperature of +45°C
- Hot gas defrosting, very effective for rooms with high humidity or frequent door opening.
- Water-cooled condenser or central glycol water system.
- Double refrigeration circuit system with independent compressors and control system to ensure operation in the event of a power failure, only possible with two-door appliances.
- Evaporator made of AISI 304 stainless steel, corrosion-resistant
- Additional safety thermostat for high temperatures
- Safety thermostat for low temperature
- Frost protection thermostat

Extended Temperature ranges and temperature control

- Temperature range down to -20°C and up to +70°C , or even more customized

Battery and electricity

- 110V/ 60Hz Power supply
- 220V/ 60Hz Power supply
- Controller battery with 12 hours buffer time
- Controller battery with 48 hours buffer time
- Controller battery with 72 hours buffer time
- Internal double socket 220V/110V for connecting shakers or other devices inside the chamber, IP65
- Current stabilizer

Moisture- and Humidity management

- Specially controlled humidity range
- Steam humidifier
- Dehumidifier up to 10% RH, with desiccant rotor system (operating range from +10°C).
- Special humidifier for low humidity

Water management

- Double circuit for backwashing the tap water with separate pump to ensure operation in the event of a humidifier failure.

- Tank for demineralized water with separate pump to ensure the water supply to the humidifier
- Condensate drain pump with 20-liter container (other capacities optional)
- 20 liter demineralized water tank for supplying water to the humidifier (other capacities on request).

Interior fittings: Tubs and shelves

- A diverse range of shelves and racks

Interior fittings: Light source

- horizontal or vertical light arrangements tailored to your specific needs— be it for plant, algae, or bacterial growth, insect breeding, or stability testing under ICH guidelines ect.—we've got you covered.

Lighting control

- Multi-channel control system for shelves with customer-specific LED light tubes, intensity (lux/micromole), number of channels and wavelengths (in nm), independent channel per shelf or per shelf group, dimming with independent program control function, adjustable from 0 to 100 % (in 1 % increments), programmable depending on temperature and humidity; or in combination (specify application when ordering) For each independent channel

CO2

- CO2 control system with NDIR probe inside the chamber. Optionally 0 to 1000, 0 to 2000 or 0 to 5000 ppm; display of the value on the screen, only with 4500 controller. CO2 gas cylinder not included. Possibility of direct connection to a central CO2 system.
- CO2 control system with pump and external NDIR analyzer. Optionally 0 to 1000, 0 to 2000 or 0 to 5000 ppm; value shown on the display, only with 4500 controller. CO2 gas cylinder not included. Direct connection to a central CO2 system possible.

Ventilation

- Manual internal ventilation system with protective rosette
- Automatic internal ventilation system with pumps, controlled by an independent programmable timer.
- Automatic internal aeration system with pumps. Connected and controlled by the automatic CO2 control system.

User interface/display

- Graphic control with 7.0" touchscreen, 4500 series
- Nanodac controller

Interfaces/ data output

- Floating output, secondary
- Secondary Pt100 sensor (potential-free contact) for external measuring device
- Digital data logger, according to FDA 21 CFR Part 2
- Temperature recorder for temperature or humidity
- External data logger with internal memory and USB port
- External data logger with internal memory, RS 485 interface and USB connection
- GSM alarm module, requires B2B SIM card
- Ethernet LAN connection module
- RS 485 connection port + readout protocols, for connection to BMS or external systems, only available for devices with S 4500 series control units.

- Ethernet WIFI connection

Software

- Multicontrol connection software to the external server, via WELAN, with communication of messages to the user via SMS or e-mail.
- FDA 21 CFR part 11 compliant software with associated documents for Nanodac controller
- FDA 21 CFR part 11 compliant software with associated documents for 4500 series

Accessories

- Quantum micromole reader, with display of the result on the screen.
- Gloves in short length
- Medium length gloves