ENRICO BRUNO s.r.l.
APPARECCHI SCIENTIFICI
SANITARI – INDUSTRIALI

Over 50 years in cooperation with the health world, the scientific research, the environmental and quality control world

Climatic chambers mod. VR-C 245

Temperature from - 40.0 ° C to + 180.0 ° C - Relative humidity from 10% to 98%

Thermostatic and climatic cells for environmental simulation tests.
Ideal for the automotive, aeronautical, electronic, optical, semiconductor, biological, chemical and pharmaceutical industries.

Construction features

- Elegant RAL7035 powder coated exterior construction
- Internal chamber in AISI 304 stainless steel with rounded corners
- Double layer insulation, sandwich type
- Swiveling wheels with locking system
- Forced air circulation with special internal deflectors that guarantee excellent air distribution
- Door with anti-fog multiple crystal window
- Internal light with panel control
- Door opening microswitch
- Double silicone rubber gaskets
- Adjustable closure and hinges
- Cooling by means of a hermetic refrigeration unit with ecological gas, single-stage for models up to -40 ° C and double-stage for models up to -70 ° C
- RH% automatic control system with thermal protection device
- Standard possibility of direct supply of mains water by means of an external pressurized demineralizer
- Standard possibility of feeding from external tank not under pressure

Standard equipment for thermoregulation

- Multi-Loop PID microprocessor with alarms and autotuning functions
- Relative humidity transducer with high precision electronic sensor without maintenance
- Temperature transducer with PT100 sensor, Class A
- Intuitive operator interface with display of parameters for cell management
- Manual operation with fixed set point setting of ° C and RH%
- Programmed operation of ° C and RH% with the ability to manage programs, ramps, thermal and thermoclimatic cycles
- Possibility of storing programs and repeating cycles
- Graphic recording on the panel of the ° C and RH% variables of the relative set points and of the door opening
- Alarm recording with acknowledgment page
- Ethernet interface (allows connection to a PC or to a LAN network) USB and RS485 serial
- USB interface allows the saving of recorded data on a USB stick
- Serial port with MODBUS protocol
- TOUCH SCREEN graphic display, 7 "widescreen color
- Minimum and maximum product temperature protection by means of an independent safety digital thermoregulator
- On-line thermodynamic registration

Standard equipment

- N ° 01 Height-adjustable stainless steel shelf

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- N ° 01 Cable hole diam 50mm, complete with silicone closure
- N ° 01 CE certificate of conformity
- N ° 01 Instruction manual
- N ° 01 Warranty Certificate

4 standard sizes + special volumes on request

The version without humidity control is available on request.

Accessories on request

• **G3VR0901** Web server function, allows the functions of the Touch Screen panel to be remotely controlled on a PC via browser

• **G3VR0902** PC Software - automatic pdf report with test data and graph °C or and/or RH % with customer logo (requires web server option)

• **G3VR0903** Ethernet connection cable to PC - 2mt

Made in Italy

Technical data

Temperature range	-40 ° C to + 180 ° C
Humidity field	10% ... 98%
Internal volume L	245
K temperature accuracy	± 0.1 ... ± 0.3
Temperature uniformity K	± 0.5 ... ± 1.5
Humidity accuracy%	± 1 ... ± 3
Thermal gradient K / min	± 3
Internal dissipation W	400
Noise dB (A)	60
Power supply V	400V 3 + N - 50 Hz
Power Kw	5.5 ... 6.1
Internal dimensions W x D x H mm	700x500x700
External dimensions W x D x H mm	900x1070x1780
Packaging dimensions W x D x H mm	1300x1200x2000
Net weight	300
Gross weight	330

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Code	Description	Temperature range ° C	Volume L	Humidity range	External dimensions mm (LxPxH)	Weight Kg
G3VRUC25	Climatic chambers mod. VR-C 245	-40...+ 180	245	10%...98%	900x1070x1780	300