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UN 55 plus - Universal oven with natural circulation, TwinDISPLAY

Order code: 2107.UN55plus



Information about product price on demand

Parameters

Type of convection	With natural circulation
Brand, Manufacturer	Memmert
Volume [l]	53
Inner dimensions (w×h×d) [mm]	400 × 400 × 330
External dimensions (w×h×d) [mm]	585 × 784 × 514
Size	55
Quantitative unit	ks

Standard delivery Universal Oven

The universally applicable lab oven U is Memmert's classic appliance for temperature control in science, research and material tests in industry. The technologically perfected masterpiece made of high-quality, hygienic, easy-to-clean stainless steel leaves nothing to be desired in terms of ventilation and control technology, overtemperature protection and precisely tuned heating technology.

Properties

Control of standard components

- Control** **COCKPIT** adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays
- Temperature** 2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
- Timer** Digital backwards counter with target time setting, adjustable from 1 minute to 99 days

Temperature

- Set temperature range in °C** min. 5°C above ambient up to +300°C
resolution of display for setpoint values 0.1°C up to 99.9°C, 0.5°C from 100°C and for actual values 0.1°C (LED)

Control technology

- Function** **HeatBALANCE** adapting the distribution of the heating performance of the upper and lower heating circuit from -50% to +50%
- Function** **SetpointWAIT** the process time does not start until the set temperature is reached
- Language setting** German/English/Spanish/French
- Calibration** three freely selectable temperature values
- Adjustable parameters** temperature (Celsius or Fahrenheit), air flap position, programme time, time zones, summertime/wintertime

Ventilation

- natural convection**
- Fresh air admixture** adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually
- Vent** vent connection with restrictor flap

Communication

- Documentation** programme stored in case of power failure
- Programming** AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port

Safety

- Temperature control** mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature
- Temperature control** overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display
- AutoSAFETY** additionally integrated over- and undertemperature monitor "ASF", automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating is switched off in case of overtemperature
- Autodiagnostic** system for fault analysis
- Alarm** visual and acoustic

Standard equipment

- Scope of delivery** incl. works calibration certificate for +160°C
- Door** fully insulated stainless steel door with 2-point locking (compression door lock)
- Housing** rear zinc-plated steel
- Interior** easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
- Internals** 1 stainless steel grid

Stainless steel interior

- Max. loading of chamber:** 80 kg
- Dimensions** W x H x D in mm w(A) x h(B) x d(C): 400 x 400 x 330 mm
- Volume** 53 l

Textured stainless steel casing

w(D) x h(E) x d(F): 585 x 784 x 514 mm

Electrical data

Voltage Electrical load 230 V, 50/60 Hz approx. 2000 W

Voltage Electrical load 115 V, 50/60 Hz approx. 1700 W

Packing/shipping data

Dimensions approx incl. carton B x H x T: 730 x 950 x 670 mm

Net weight approx. 57 kg

Gross weight carton approx. 76 kg