

Universal oven

Model UFP 400



Standard equipment

Ventilation and Control

- forced air circulation by quiet air turbine adjustable in 10% steps via process controller, for each segment individually
- adjustment of pre-heated fresh air admixture by air flap through process controller in 10% steps for each segment individually
- vent connection with restrictor flap
- adaptive, fuzzy-supported, multifunctional, digital microprocessor PID-controller
- autodiagnostic system with fault indication
- 2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
- digital 7-day-programme-timer with real time clock, precise minute setting, for one set value or start of ramp operation
- integrated timer for tempering profiles of up to 40 ramps, each segment adjustable from 1 min. up to 999 hours
- multifunctional programming via menu on 8-digit alphanumeric digital display (language to be chosen via set-up):
tempering profiles of up to 40 ramps
time- and set-point dependent operation
air flap adjustable in 10% steps
speed of air turbine in 10% steps
- digital display (LED) of all set parameters, such as temperature, weekdays, time, fan speed, air flap position, programme status and set-up values
- resolution of display for set value 0,1 °C below 99,9 °C, 0,5 °C above 100 °C; for actual value 0,1 °C
- long-term logging (ring store) of all relevant data, GLP-conforming as data logger - 1024 kB
- programme stored on power failure
- parallel printer interface (incl. real-time clock with date function) for printing logging files, suitable all PCL3-compatible ink-jet printers (USB available via converter, see accessories)
- serial interface RS 232 including MEMMERT Software "Celsius" for programming and documentation

- chip card control incl. one MEMoryCard XL with 32 kB (up to 40 ramps)
- incl. works calibration certificate for +160 °C

Multiple Overtemperature Protection

- with audible and visual alarm
- digitally adjustable, electronic microprocessor overtemperature controller TWW protection class 3.1 - maximum value for overtemperature - minimum value for undertemperature
- additional integral over- and undertemperature monitor "ASF" (Auto-Safety-Function) automatically following the setpoint value at a preset tolerance range; audible alarm is activated in case of over- or undertemperature, heating is switched off in case of overtemperature
- resolution of display and setting accuracy: 0,5 °C below 99,9 °C, 1 °C above 100 °C
- mechanical temperature limiter TB protection class 1 switching the heating off at approx. 10 °C above max. oven temperature

Textured Stainless Steel Casing

- w x h x d: 550 x 680 x 480 mm
- fully insulated stainless steel door with double locking and 4-point adjustment
- rear zinc-plated steel

Interior - Heating Concept

- w x h x d: 400 x 400 x 330 mm, 53 l
- easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
- 2 stainless steel grids

Temperature Range

- from +30 °C (however, at least 10 °C above ambient) up to +250 °C

Voltage / Power Rating

- 230 V (+/- 10%), 50/60 Hz
- ca. 1.400 W (during heating)
- adaption of effective heating power depending on the set temperature

Packing Data

- net weight approx. 40 kg
- gross weight carton approx. 48 kg
- dimensions approx.:
carton w x h x d: 67 x 78 x 63 cm
- the appliances must be transported upright

Customs Tariff Number

- 8419 3990

Country of Origin

- Federal Republic of Germany

WEEE-Reg.-No.

- DE 66812464

Accessories

- | | |
|---|-------|
| • Temperature range +300 °C for universal ovens (not available for ovens with glass door) | A0 |
| • Perforated stainless steel shelf | E0(x) |
| • Stainless Steel Grid (for good air circulation) | E3(x) |
| • Interface USB instead of interface RS232 | W3 |
| • Interface Ethernet instead of RS232 inclusive software "Celsius Ethernet-Edition" | W4 |
| • Parallel/USB converter cable with integrated power supply unit to connect PCL3-compatible HP printers | W1 |

with USB interface to MEMMERT units.

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|---|----|
| • Documentation package consisting of parallel USB converter cable including PLC3-compatible HP colour inkjet printer with USB interface (HP Deskjet 6940 or successor) for direct connection of printer to Memmert unit | W2 |
| • IQ check list with works test data for oven as support for validation by customer | Q1 |
| • OQ check list including one free-selectable temperature distribution survey to DIN 12880: 2007-05 (size 200/300: 9 measuring points, size 400-800: 27 measuring points) with works test data for oven as support for validation by customer | Q2 |
| • Software conforming to FDA "Celsius FDA-Edition" for up to 16 units | Q3 |
| • Oven-linked authorisation card (User-ID-Card) - prevents undesired manipulation by unauthorised third parties | V1 |
| • Computer interface RS485 (for networking a maximum of 16 ovens) instead of interface RS232 | V2 |
| • Temperature profile write/read unit for programming via PC, for writing to and reading from the chip card, up to 40 ramps | V3 |
| • Additional chip card, blank, formatted (32 kB MEMoryCard XL for a maximum of 40 ramps) | V4 |
| • Connection cable for computer interface RS232 according to DIN 12 900-1 | V6 |