



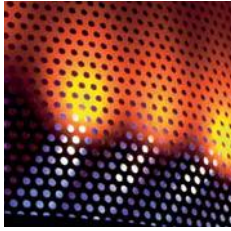
GENERATION 2012

Universal Oven UN and UF with SingleDISPLAY
Universal Oven UNplus and UFplus with Twin DISPLAY
Natural convection or forced ventilation
AtmoCONTROL software

Model sizes:
30 / 55 / 75 / 110 / 160 / 260 / 450 / 750
+30° C up to +300° C

UNIVERSAL OVENS U The all-round genius among the heating ovens cover a multitude of applications, ideally at temperatures above +50 °C. Without compromises! Thanks to two model variants and eight sizes, optionally with natural or forced convection, industry, science and research institutes will find a heating and drying oven which combines top precision and safety with optimal operating comfort.



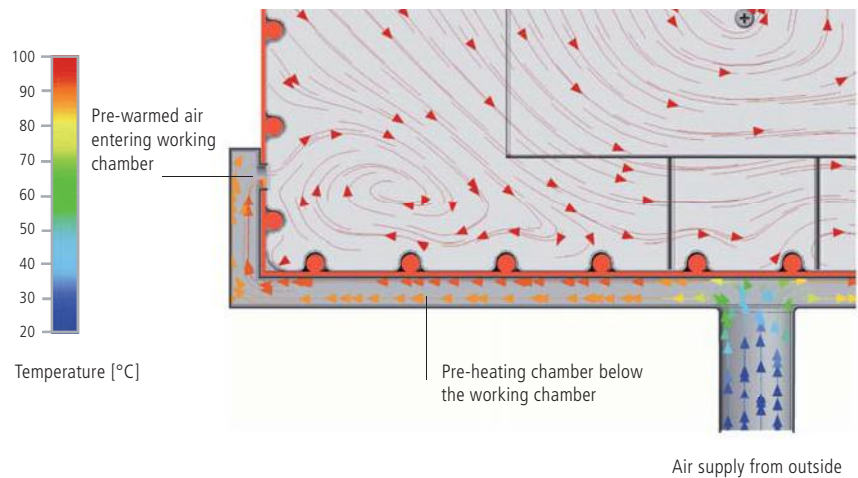


Defined and programme-controlled fan speed

Air exchange rates and air flap position can be controlled electronically at the ControlCOCKPIT. More inlet and outlet openings lead to a higher air exchange and reduced drying times. Various applications recommend or even require controlled ventilation. When drying powder, sand or corn, reducing the ventilation prevents undesired swirls. Other applications like testing of wires or cables demand for defined air exchange rates. UFplus appliances feature easy programming of temperature and air exchange rates with the AtmoCONTROL software.

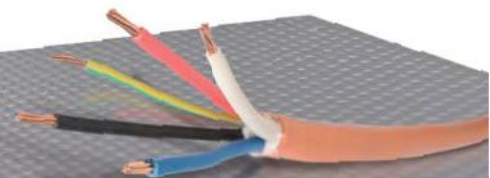
Fresh air is preheated

Temperature deviations caused by fresh air can influence sample characteristics or prolong drying. In Memmert universal ovens, the fresh air is therefore fed through a pre-heating chamber and introduced into the working chamber.



Intended purpose as a medical device:

Heating ovens UF and UFplus are applied for heating of non-sterile fabrics and covers.



Options	30	55	75	110	160	260	450	750
Full-sight glass door (4 insulating glass)								B0
Chamber modification for the application of reinforced perforated stainless steel shelves or stainless steel grids (bearing rails mounted in the working chamber) – includes replacement of 2 standard grids by 2 reinforced grids				–				K1
Fresh-air filter (filtration efficiency 80 %) mounted at the bottom (for UF/UFplus)								R8
Interior lighting (up to size 260: 15 W, sizes 450/750: 2 x 15 W)								R0
Interior socket (can only be ordered with limited temperature-range – max. +70 °C) current carrying ampacity 230 V, 2.2 A can be switched off with the On/Off switch, cannot be switched individually								R3
Interior nearly gastight								K2
Ditto, with possibility for gas inlet/outlet through 2 tubes with ball valves								K3
Entry port, 23 mm clear diameter, for introducing connections at the side, can be closed by flap, standard positions				left centre/centre left centre top right centre/centre right centre top				F0 F1 F2 F3
Entry port, 23 mm clear diameter for introducing connections at the side, can be closed by flap in special positions (please, state location)				left right rear				F4 F5 F6
Entry port, 14 mm clear diameter, can be closed by flap, in special positions at the back (please, state location)								D6
Entry port, 38 mm clear diameter, can be closed by flap, in special positions at the back (please, state location)								F7
Entry port, 57 mm clear diameter, can be closed by flap, in special positions at the back (please, state location)								F8
Entry port, 100 mm clear diameter, can be closed by flap, in special positions at the back (please, state location)								F9
Entry port, 120 mm clear diameter, can be closed by flap, in special positions at the back (please, state location)								D7
4 – 20 mA current loop interface (0 to +310 °C \pm 4 – 20 mA) Temperature controller actual value Temperature of a Pt100 sensor positioned flexibly in chamber (max. 1 SingleDISPLAY, max. 3 TwinDISPLAY)								V3 V6
Fan speed monitoring – optional for UFplus only								V4
Works calibration certificate for 3 temperatures: +100 °C, +160 °C, +220 °C								D00128

Accessories	30	55	75	110	160	260	450	750
Stainless steel grids (standard equipment)	E28884	E20164		E20165		E28891		E20182
Reinforced stainless steel grid, max. loading 60 kg (from size 450 only in connection with option K1)		–		E29767		E29766		E20185
Perforated stainless steel shelf	B29727	B03916		B00325		B29725		B00328
Reinforced perforated stainless steel shelves, max. loading 60 kg (from size 450 only in connection with option K1)		–		B29777		B29724		B00844
Stainless steel tray (non-perforated) 15 mm rim (may affect the temperature distribution)	E02070	E02072		E02073		E29726		E02075
Bottom drip tray (may affect the temperature distribution)	B04356	B04358		B04359		B29722		B04362
Wall bracket (tubular frame for wall mounting)	B29755	B29756	B29757	B29758	B29759			–
Guarantee extension by 1 year				GA1Q5				GA2Q5

SingleDISPLAY ControlCOCKPIT with one TFT display

AVAILABLE APPLIANCES

UN / UF / IN / IF / SN / SF / IPP / IPS

Available parameters on the ControlCOCKPIT: Temperature (Celsius or Fahrenheit), fan speed, exhaust air flap position, programme time

One temperature sensor Pt100 DIN class A in a 4-wire circuit

Ethernet interface on the rear of the appliance for reading out the protocol log

Double overtemperature protection: Electronic temperature monitoring with freely adjustable monitoring temperature, mechanical temperature limiter TB acc. to DIN 12 880.

TwinDISPLAY ControlCOCKPIT with two TFT displays

AVAILABLE APPLIANCES

UNplus / UFplus / UNpa / INplus / IFplus / SNplus / SFplus
IPPplus / ICP / HPP / ICH

Available parameters on the ControlCOCKPIT: Temperature (Celsius or Fahrenheit), fan speed, exhaust air flap position, programme time, relative humidity, illumination, CO₂

Two Pt100 sensors DIN class A in a 4-wire circuit for mutual monitoring, taking over functions in case of an error

HeatBALANCE function for application specific adjustment of heat output distribution (balance) between the upper and lower heating groups in an adjustment range between -50 % and + 50 %

ControlCOCKPIT with USB port for uploading programmes, reading out protocol logs, activating the User-ID function

Displaying of already logged protocol data on the ControlCOCKPIT (max 10,000 values correspond to approx. 1 week)

Ethernet interface on the rear of the appliance for reading out the protocol log and for uploading and implementing programmes and for online logging

Multiple overtemperature protection: Electronic temperature monitoring TWW/TWB (protection class 3.1 or 2 resp. 3.3 for units with active cooling) and mechanical temperature limiter TB (protection class 1) acc. to DIN 12 880, AutoSAFETY automatically adjusts to the set value within a freely adjustable tolerance range. Setting individual MIN / MAX values for over/undertemperature alarm and also for all other parameters such as relative humidity, CO₂.

Structured stainless steel housing, rear of zinc-plated steel, ControlCOCKPIT for operation and adjustment of all parameters

High-temperature connectors on the rear of the appliance for single-phase power connection according to country specific systems and IEC standards

Internal data logger with a storage capacity of at least 10 years

German, English, French, Spanish language settings available on the ControlCOCKPIT

Digital timer, adjustable between 1 minute and 99 days, 23 hours

The SetpointWAIT function guarantees that the process time does not start until the set temperature is reached at all measuring points – optional for temperature values recorded by the freely positionable Pt100 sensors inside the chamber.

Adjustment of three calibration values for temperature and additional appliance specific parameters directly at the ControlCOCKPIT (e. g. relative humidity)