

Heating and drying ovens









Simply boundless. Boundlessly simple.

Drying, heating, ageing, testing, sterilising, burning-in, testing, curing, storing. 100% AtmoSAFE.

From very small to very large! 32 litres or 749 litres chamber volume? Standard applications or high demand for functionality, programming and documentation? In any case, all Memmert heating and drying ovens feature user-friendliness and state-of-the-art communication interfaces as a basic. Each individual appliance is tested according to the strict requirements of DIN 12 880: 2007-05 and is equipped with a maximum of safety functions. Each individual Memmert heating and drying oven is 100% AtmoSAFE.





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

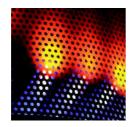
UNIVERSAL OVENS U The all-round genius among the heating ovens cover a multitude of applications, ideally at temperatures above +50 °C. Without compromises! Thanks to two model variants and eight sizes, optionally with natural or forced convection, industry, science and research institutes will find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





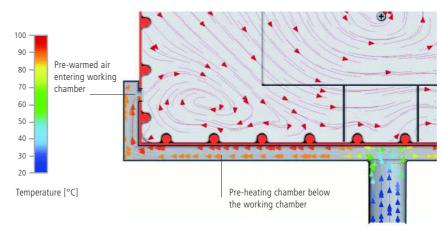
Defined and programme-controlled fan speed

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 unviersal ovens, the fresh air is therefore fed through a pre-heating chamber and introduced into the working chamber.



Air supply from outside



Intended purpose as a medical device:

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



GENERA'II 2012 N

UNIVERSAL OVENS U

according to 12 880: 2007-05, EN 61010-1 (IEC 61010-1), 61010-2-010



Standard equipment

Interior: Stainless steel, material 1.4301 (ASTM 304),

with all-round deep-drawn ribs to integrate the large-area heating with ceramic-metal sheath

Internals: Stainless steel grids (sizes 30 and 55:

1 grid, sizes 75 – 750: 2 grids)

Housing: Textured stainless steel, rear zinc-plated steel,

intuitively operated SingleDISPLAY or TwinDISPLAY with Multi-Touchscreen

(from size 450 two leaves)

Fresh air: Admixture of pre-heated fresh air by

electronically adjustable air flap

Connection: Mains cable with plug (German Type)

CEE plug for 400 V

Installation: 4 feet; sizes 450 and 750

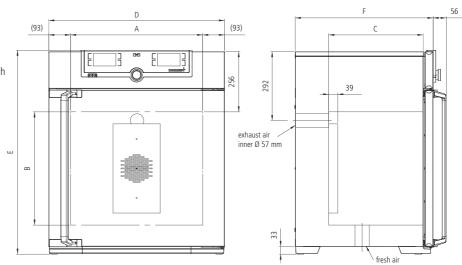
mounted on lockable castors

Interfaces:





(only TwinDISPLAY)



Model sizes/Descriptior	1			30	55	75	110	160	260	450	750				
Stainless steel interior	Volume		approx. I	32	53	74	108	161	256	449	749				
	Width	(A)	mm	400	400	400	560	560	640	1040	1040				
	Height	(B)	mm	320	400	560	480	720	800	720	1200				
	Depth (less 39 mm for fan)	(C)	mm	250	330	330	400	400	500	600	600				
	Stainless steel grids (standard equipment)		number	1	1	2	2	2	2	2	2				
	Max. number of grids		number	3	4	6	5	8	9	8	14				
	Max. loading per grid		kg				3	0							
	Max. loading of chamber		kg	60	80	120	175	210	300	300	300				
Textured stainless steel exterior	Width	(D)	mm	585	585	585	745	745	824	1224	1224				
	Height (size 450, 750 with castors)	(E)	mm	707	787	947	867	1107	1186	1247	1726				
	Depth (without door handle), door handle + 56 mm	(F)	mm	434	514	514	584	584	684	784	784				
Further data	Electrical load at 230 V, 50/60 Hz		approx. W	1600	2000	2500	2800	3200	3400	-	_				
	Electrical load at 115 V, 50/60 Hz		approx. W	1600	2000	2400	2400	2400	2400	-	-				
	Electrical load at 400 V and 3 x 230 V w/o neutral, 50/60 Hz		approx. W				_			5800	7000				
	Working-temperature range		°C at least 5 K (UN/UNplus) at least 10 K (UF/UFplus) above ambient temperature to +300												
	Setting temperature range		°C +20 to +300												
	Setting accuracy		K up to 99.9 °C: 0.1 / from 100 °C: 0.5												
Packing data	Net weight		approx. kg	44	55	64	72	80	96	160	192				
	Gross weight (packed in carton)		approx. kg	55	67	76	86	96	114	185	242				
	Width		approx. cm	69	70	70	83	83	93	134	134				
	Height		approx. cm	86	94	111	104	127	134	141	189				
	Depth		approx. cm	66	73	73	79	79	89	99	99				
Order No. Universal Ovens			UN30	UN55	UN75	UN110	UN160	UN260	UN450	UN750					
U = Universal Oven N = Natural convection F = Forced air circulation plus = Model with TwinDISPLAY			UN30plus	UN55plus	UN75plus	UN110plus	UN160plus	UN260plus	UN450plus	UN750pl					
			UF30	UF55	UF75	UF110	UF160	UF260	UF450	UF750					
				UF30plus	UF55plus	UF75plus	UF110plus	UF160plus	UF260plus	UF450plus	UF750plu				

Options	30	55	75	110	160	260	450	750		
Full-sight glass door (4 insulating glass)	ВО									
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)				F	88					
Interior lighting (up to size 260: 15 W, sizes 450/750: 2 x 15 W)				F	RO					
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				F	70 71 72 73					
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				F	54 55 66					
Entry port, 14 mm clear diameter, can be closed by flap, in special positions at the back (please, state location)				[06					
Entry port, 38 mm clear diameter, can be closed by flap, in special positions at the back (please, state location)				F	7					
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 ≜ 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									

		55	75	110	160	260	450	750
Stainless steel grids (standard equipment)	E28884	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		
Stainles steel tray (non-perforated) 15 mm rim (may affect the temperature distribution)	E02070	2070 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		-	