

Asynt



memmert
Experts in Thermostatics

Heating and drying ovens

COMMUNICATION. COMFORT. SIMPLY GREAT.



100% ATMOSAFE. MADE IN GERMANY.

www.memmert.com | www.atmosafe.net



Universal Oven UN/UNm and UF/UFm with SingleDISPLAY

Universal Oven UNplus/UNmplus and UFplus/UFmplus
with TwinDISPLAY

Natural convection or forced ventilation

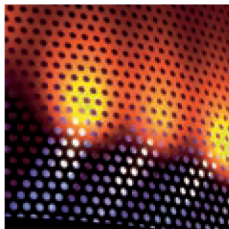
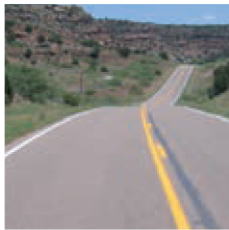
AtmoCONTROL software

Model sizes:

30 / 55 / 75 / 110 / 160 / 260 / 450 / 750 / 1060

+30 °C up to +300 °C

UNIVERSAL OVEN U The all-round genius among the heating ovens covers a multitude of applications, ideally at temperatures above +50 °C. Without compromises! Thanks to two model variants and nine 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.



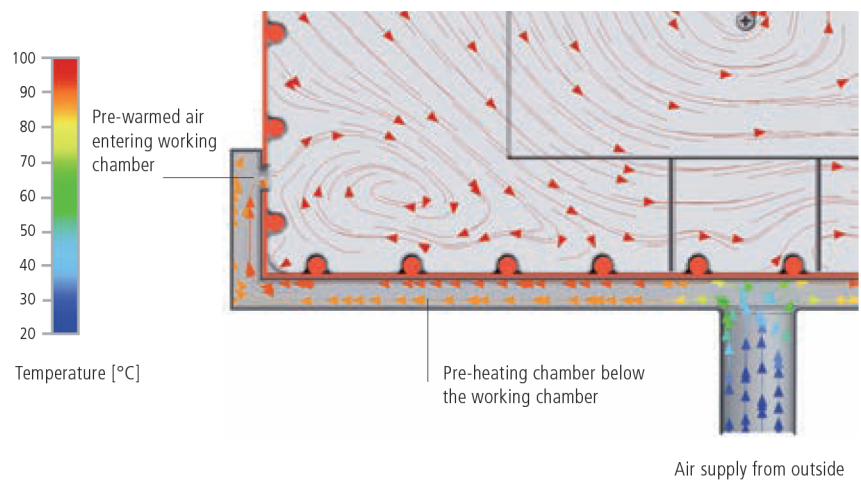
Defined and programme-controlled fan speed

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/UFmplus appliances feature easy programming of temperature and air exchange rates with the AtmoCONTROL software.

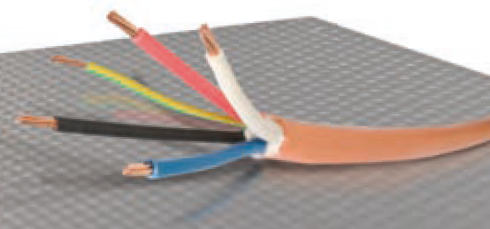
Fresh air is preheated

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.



The universal oven Um is a medical device:

Memmert universal ovens Um are a Class I medical device in accordance with the EU directive 93/42/EEC. In accordance with the intended use Memmert heating oven UNm (with option A6) or UNmplus may be used for heating fango, silicate and APS packs for physical therapy and keeping them warm.



UNIVERSAL OVENS U

according to DIN 12880:2007-05, EN 61010-1 (IEC 61010-1), EN 61010-2-010

Standard units are safety-approved and bear the test marks:
(EAC not valid for medical devices)



Interior: Stainless steel, material 1.4301 (ASTM 304), with all-round deep-drawn ribs to integrate the large-area heating with ceramic-metal sheath

Housing: Textured stainless steel, rear zinc-plated steel, intuitively operated SingleDISPLAY or TwinDISPLAY (TFT colour display) with touchscreen, fully insulated stainless steel door, (from size 450 two leaves)

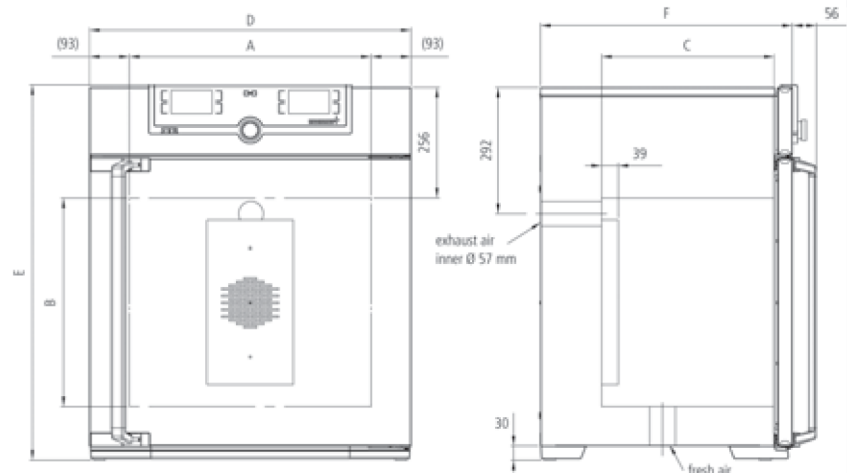
Fresh air: Admixture of pre-heated fresh air by electronically adjustable air flap

Connection: Mains cable with plug (German type)
CEE plug for 400 V

Installation: 4 feet; sizes 450, 750 and 1060 mounted on lockable castors

Interfaces:  

USB: only TwinDISPLAY



Model sizes/Description			30	55	75	110	160	260	450	750	1060
Stainless steel interior	Volume	approx. l	32	53	74	108	161	256	449	749	1060
	Width	(A) mm		400		560		640		1040	
	Height	(B) mm	320	400	560	480	720	800	720		1200
	Depth (less 39 mm for fan)	(C) mm	250		330		400	500		600	850
	Max. number of grids/shelves	number	3	4	6	5	8	9	8		14
	Max. loading per grid/shelf	kg				20				30	60
	Max. loading of chamber	kg	60	80	120	175	210		300		
	Max. loading per slide-in drip tray	kg		1,5		3		4		8	
	Max. loading per bottom drip tray	kg		1,5		3		4		8	
Textured stainless steel exterior	Width	(D) mm		585		745		824		1224	
	Height (size 450, 750, 1060 with castors)	(E) mm	704	784	944	864	1104	1183	1247		1726
	Depth (without door handle), door handle + 56 mm	(F) mm	434		514		584	684		784	1035
Standard equipment	Stainless steel grids, electropolished	number		1				2			1
	Standard works calibration certificate (measuring point chamber center)	°C						+160			
Temperature	Working temperature range	°C	at least 5 (UN/UNplus/UNm/UNmplus) or 10 (UF/UFplus/UFm/UFmplus) above ambient temperature to +300								
	Setting temperature range	°C	+20 to +300								
	Setting accuracy	°C	up to 99.9: 0.1 / from 100: 0.5								
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	1700		1800				-	
	Electrical load at 400 V and 3 x 230 V w/o neutral, 50/60 Hz	approx. W				-			5800	7000	
Packing data	Net weight	approx. kg	45	57	66	74	96	110	161	217	252
	Gross weight (packed in carton)	approx. kg	61	76	85	99	122	161	227	288	416
	Width	approx. mm	660		730		830	930		1330	1370
	Height	approx. mm	890	950	1130	1050	1300	1380	1440	1910	1970
	Depth	approx. mm	650		670		800	930		1050	1300

Universal Ovens

U = Universal Oven

N = Natural convection

F = Forced air circulation

m = Medical device

plus = Model with TwinDISPLAY

UN30	UN55	UN75	UN110	UN160	UN260	UN450	UN750	-
UN30m	UN55m	UN75m	UN110m	UN160m	UN260m	UN450m	UN750m	-
UN30plus	UN55plus	UN75plus	UN110plus	UN160plus	UN260plus	UN450plus	UN750plus	-
UN30mplus	UN55mplus	UN75mplus	UN110mplus	UN160mplus	UN260mplus	UN450mplus	UN750mplus	-
UF30	UF55	UF75	UF110	UF160	UF260	UF450	UF750	UF1060
UF30m	UF55m	UF75m	UF110m	UF160m	UF260m	UF450m	UF750m	UF1060m
UF30plus	UF55plus	UF75plus	UF110plus	UF160plus	UF260plus	UF450plus	UF750plus	UF1060plus
UF30mplus	UF55mplus	UF75mplus	UF110mplus	UF160mplus	UF260mplus	UF450mplus	UF750mplus	UF1060mplus

Options	30	55	75	110	160	260	450	750	1060
Voltage 115 V, 50/60 Hz	X2						-		
Extended overtemperature protection by additionally integrated Pt100 sensor for independent temperature monitoring for models with SingleDISPLAY							A6		
Full-sight glass door (4-layer insulating glass) Temperature-range up to max. 250 °C							B0		
Full-sight glass door (4-layer insulating glass borsilicat) Temperature-range up to max. 300 °C							B1		
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 appliance bottom (for UF/UFplus/UFm/UFmplus). For sizes 30 – 260 castor frame R9 or subframe necessary							R8		
Interior lighting for observing the load							R0		
Interior socket (can only be ordered with limited temperature range – max. +70 °C) ampacity 230 V, 2.2 A, can be switched off with the On/Off switch, cannot be switched individually, moisture tight IP68 (option A8 necessary)							R3		
Interior nearly gastight							K2		
Interior nearly gastight 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						F0		
	left centre/top						F1		
	right centre/centre						F2		
	right centre/top						F3		
Entry port, 23 mm clear diameter, can be closed by flap, in special positions (please state location)	left						F4		
	right						F5		
	rear						F6		
Entry port, 14 mm clear diameter, can be closed by flap, in special positions in the back wall (please, state location)							D6		
Entry port, 38 mm clear diameter, can be closed by flap, in special positions in the back wall (please, state location)							F7		
Entry port, 57 mm clear diameter, can be closed by flap, in special positions in the back wall (please, state location)							F8		
Entry port, 100 mm clear diameter, can be closed by flap, in special positions in the back wall (please, state location)	-						F9		
4 – 20 mA current loop interface (0 to +310 °C = 4 – 20 mA)	Temperature controller, actual value						V3		
	Temperature of a Pt100 sensor positioned flexibly in chamber for external temperature monitoring (max. 1 SingleDISPLAY, max. 3 TwinDISPLAY) – price per sensor						V6		
Fan speed monitoring with switching off the heating and with alarm in case of failure – optional for UFplus/UFmplus only							V4		
Works calibration certificate for 3 temperatures: +100 °C, +160 °C, +220 °C							D00128		
Door with lock (safety lock)							B6		
Door hinged on the left	B8						-		
Potential-free contact (24 V/2 A) with socket, according to NAMUR NE 28 for external monitoring (indicates when setpoint is reached)							H5		
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)							H6		
Potential-free contact (24 V/2 A) with socket to NAMUR NE 28, for signal generation, controlled by programme segment, for free-selectable functions to be activated (e.g. activation of audible and visual signals, exhaust motors, fans, stirrers, etc.). Only for units with TwinDISPLAY; max. 2 contacts on 1-phase appliances; max. 4 contacts on 3-phase appliances	2 contacts						H72		
	4 contacts						-	H74	
Process-dependent programmable door lock (only for units with TwinDISPLAY)							D4		
Door-open-recognition, incl. alarm, shuts down fan and after 30 sec. also heating (only for units with TwinDISPLAY)							V5		
Flexible Pt100 for positioning in chamber or in load with socket, 4-pin, according to NAMUR NE 28, for external temperature recording (load temperature)							H4		
Flexible Pt100 temperature sensor, positioned flexibly in chamber or load, for local temperature measurement (up to 3 additional sensors are possible). The measured temperature can, if required, be indicated on the display, recorded in the integral data store, and can be documented via the AtmoCONTROL software							H8		
MobileALERT, notification by SMS in case of any error or alarm of the device. Requires option H6							C3		
Temperature restriction; Temperatures: +60, +70, +80, +95, +100, +120, +160, +180, +200 or +220 °C (Please, indicate upon ordering)							A8		
Castor frame (2-part), height 140 mm	R9						-		

Accessories	30	55	75	110	160	260	450	750	1060
Stainless steel grid, electropolished	E28884	E20164		E20165		E28891	E20182		B32550
Additional reinforced stainless steel grid, electropolished, max. loading 60 kg; from size 450 with guide bars and fixing screws (only in connection with option K1). Please consider max. loading of chamber		-		E29767		E29766	B32190		-
Perforated stainless steel shelf	B29727	B03916		B00325		B29725	B00328		B32549
Additional reinforced stainless steel shelf, max. loading 60 kg; with guide bars and fixing screws (only in connection with option K1). Please consider max. loading of chamber				-			B32191		-
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution) – cannot be used in connection with option K1	E02070	E02072		E02073		E29726	E02075		B32599
Stainless steel slide-in drip tray, 15 mm rim, with guide bars and fixing screws (can be used only in connection with option K1)				-			B32763		-
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution) – cannot be used in connection with option K1	B04356	B04358		B04359		B29722	B04362		B29769
Stainless steel bottom drip tray, 15 mm rim (can be used only in connection with option K1)				-			B34055		-
Wall bracket for wall mounting	B29755	B29756	B29757	B29758	B29759		-		
Guarantee extension by 1 year			GA1Q5				GA2Q5		
USB-Ethernet adapter						E06192			
Ethernet connection cable 5 m for computer interface						E06189			
USB User-ID stick (with User-ID licence): Oven-linked authorisation licence (User-ID-programme) on Memory-stick, prevents undesired manipulation by unauthorised third parties. When reordering please specify serial number (only for units with TwinDISPLAY)						B33170			
USB stick with documentation software AtmoCONTROL and operation manual for products with SingleDISPLAY (the standard equipment of appliances with TwinDISPLAY includes one USB stick with AtmoCONTROL). When reordering please specify serial number						B33172			
Set of height adjustable feet (4 pcs)				B29768				-	
Stacking set (4 pcs) for stacking of appliances of same size		B29744					-		
Plug-in tube extension (outer diam. 60.3 mm, inner 57 mm), straight, for exhaust air ducting (if necessary for connection by hose)						B29718			
Plug-in tube extension (outer diam. 60.3 mm, inner 57 mm), angled, for exhaust air ducting (if necessary for connection by hose)						B29719			
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), with air slots	B29728	B29730	B29732	B29734	B29736	B29738	B29740		B29742
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), without air slots	B29729	B29731	B29733	B29735	B29737	B29739	B29741		B29743
Subframe, adjustable in height (size 30 to 75: height 600 mm, size 110 to 450: height 500 mm)	B29745	B29747		B29749		B29751	B29753		-
Subframe, on castors (size 30 to 75: height 660 mm, size 110 to 160: height 560 mm)	B29746	B29748		B29750			-		
Subframe, adjustable in height, height 130 mm, for example for units with fresh air filter	B33657	B33659		B33661		B33664		-	
Software conforming to FDA AtmoCONTROL. Meets the requirements for the use of electronically stored data sets and electronic signatures as laid down in Regulation 21 CFR Part 11 of the US Food and Drug Administration (FDA). Base licence for the control of one unit (only for units with TwinDISPLAY). Respective IQ/OQ documents available in German and English language (without surcharge)						FDAQ1			
Integration of additional units (up to max. 15 units) into an already existent FDA-software licence (only for units with TwinDISPLAY)						FDAQ2			
IQ document with device-specific works test data, OQ/PQ check list as support for validation by customer						D00124			
IQ/OQ document with device-specific works test data for one free-selectable temperature value, incl. temperature distribution survey at Memmert for 9 measuring points (size 30), 27 measuring points (sizes 55 – 1060) to DIN 12880:2007-05. PQ check list as support for validation by customer. Price for further temperature values and validation at customer site on demand	D00125					D00127			



memmert
Experts in Thermostatics

Asynt

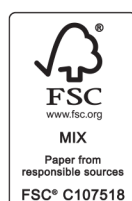
Asynt Ltd:

29 Hall Barn Road Industrial Estate,
Isleham. Ely, Cambridge CB7 5RJ

Tel: + 44 (0)1638 781709

Email: enquiries@asynt.com

Web: asynt.com



Memmert GmbH + Co. KG
P.O. Box 1720 | D-91107 Schwabach
Tel. +49 9122 925-0 | Fax +49 9122 14585
E-Mail: sales@memmert.com
facebook.com/memmert.family
The platform for experts: www.atmosafe.net