

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:

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 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated SingleDISPLAY or TwinDISPLAY (TFT colour display) with touchscreen

Door: fully insulated stainless steel doors with 2-point locking (compression door lock), from size 450 two leaves

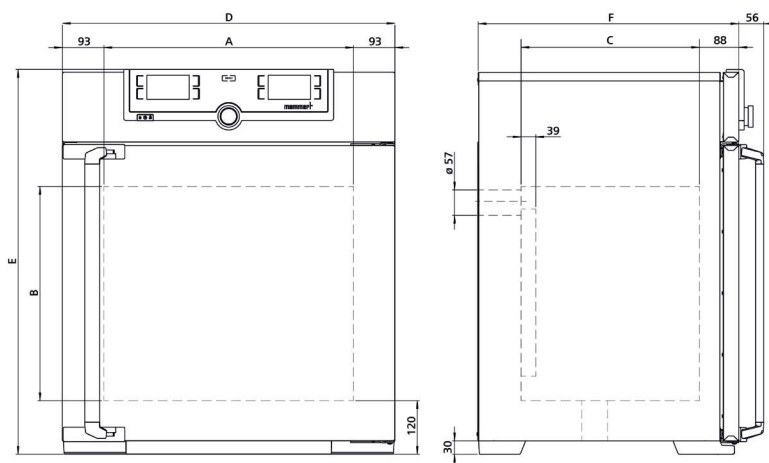
Connection: mains cable with plug (German type) CEE plug for 400 V

Installation: Sizes 30 to 260: 4 adjustable appliance feet, Sizes 450 to 1060: on lockable castors

Interfaces:



USB: only TwinDISPLAY



Model sizes/Description			30	55	75	110	160	260	450	750	1060	
Stainless steel interior	Volume	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 (sizes 450, 750, 1060 with castors)	(E) mm	704	784	944	864	1104	1183	1247	1720		
	Depth (without door handle, depth of handle +56 mm)	(F) mm	434	514		584		684	784		1035	
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C	+ 160									
	Stainless steel grid, electropolished	number	1		2							
Temperature	Working temperature range	°C	at least 5 (UN/UNplus) 10 (UF/UFplus) above ambient temperature up 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	W	1600	2000	2500	2800	3200	3400	-			
	Electrical load at 115 V, 50/60 Hz	W	1600	1700	1800				-			
	Electrical load at 400 V and 3 x 230V w/o neutral, 50/60 Hz	W	-						5800	7000		
Packing data	Net weight	kg	45	57	66	74	96	110	161	217	260	
	Gross weight (packed in carton)	kg	61	76	85	99	122	161	227	288	424	
	Width	mm	660	730		830		930	1330		1370	
	Height	mm	890	950	1130	1050	1300	1380	1440	1910	1970	
	Depth	mm	650	670		800		930	1050		1300	
Order No. Universal Ovens U = Universal Oven N = Natural convection F = Forced air circulation plus = Model with TwinDISPLAY			UN30	UN55	UN75	UN110	UN160	UN260	UN450	UN750	-	
			UN30plus	UN55plus	UN75plus	UN110plus	UN160plus	UN260plus	UN450plus	UN750plus	-	
			UF30	UF55	UF75	UF110	UF160	UF260	UF450	UF750	UF1060	
			UF30plus	UF55plus	UF75plus	UF110plus	UF160plus	UF260plus	UF450plus	UF750plus	UF1060plus	

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								
Temperature restriction; Temperatures: +60, +70, +80, +95, +100, +120, +160, +180, +200 or +250 °C (Please indicate upon ordering)	A8								
Full-sight glass door (4-layer insulating glass) Temperature-range up to max. +250 °C (requires option A8 against surcharge)	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 - standard with 1060) - includes replacement of standard grids by reinforced grids	-						K1	-	
Interior lighting for observing the load	R0								
Interior socket (can only be ordered with limited temperature range - max. +60 °C), ampacity 230 V / 2,2A / 500W, can be switched off with the On/Off switch, cannot be switched individually, moisture tight IP68 (requires option A8 against surcharge) (max. one per appliance)	R3								
Interior nearly gastight - technical clarification required for combination with other options	K2								
Interior nearly gastight with possibility for gas inlet/outlet through 2 tubes with ball valves - technical clarification required for combination with other options	K3								
Entry port with 23 mm clear diameter, can be closed, standard position	left centre/centre						F0		
	left centre/top						F1		
	right centre/centre						F2		
	right centre/top						F3		
Entry port with 23 mm clear diameter, can be closed, individual position (please state position)	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 with 57 mm clear diameter, can be closed by flap, individual positions in the back wall (please state position, not possible for devices with forced air circulation of sizes 30-75)	F8								
Entry port with 100 mm clear diameter, can be closed by flap, individual positions in the back wall (please state position, not possible for devices with forced air circulation of size 75)	-	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 (for UFplus)	V4								
Door with lock and key (safety lock)	B6								
Door hinged on the left	B8						-		
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)	H6								
Potential-free contact (24 V/2 A) with socket, 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	2 contacts						H72		
Process-dependent programmable door lock (only for units with TwinDISPLAY)	D4								
Door-open-recognition (only for units with TwinDISPLAY)	V5								

Options	30	55	75	110	160	260	450	750	1060
Flexible Pt100 temperature sensor, positioned flexibly in chamber or load, for local temperature measurement (up to 1 additional sensor is possible).The measured temperature will 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								
Castor frame (2-part), height 140 mm	R9						-		
Fresh-air filter (filtration efficiency 80 %) mounted at the device bottom (for devices with forced air circulation, sizes 30 - 260 require castor frame R9 or subframe)	R8								

Accessories	30	55	75	110	160	260	450	750	1060
Stainless steel grid, electropolished	E28884	E20164		E20165		E28891	E20182		B41251
Reinforced stainless steel grid, electropolished, max. loading 60 kg; from size 450 with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber	-			E29767		E29766	B32190		B32550
Perforated stainless steel shelf	B29727	B03916		B00325		B29725	B00328		-
Reinforced stainless steel shelf, max. loading 60 kg; with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber	-						B32191		B32549
Stainless steel slide-in drip tray, 15 mm rim, with guide bars and fixing screws (may affect the temperature distribution, requires option K1)	-						B32763		-
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution, not in connection with option K1 for sizes 450/750)	E02070	E02072		E02073		B29726	E02075		B32599
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution, requires option K1)	-						B34055		-
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution, not in connection with option K1 for sizes 450/750)	B04356	B04358		B04359		B29722	B04362		B29769
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								
Wall bracket for wall mounting	B29755	B29756	B29757	B29758	B29759	-			
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	
Stacking set (4 pcs) for stacking of appliances of same size	B29744					-			
Set of height adjustable feet (4 pcs)	B29768						-		
Subframe, adjustable in height (size 30 to 75: height 600 mm, from size 110: 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	B33657	B33659		B33661		B33664	-		

Accessories Software and Connectivity	30	55	75	110	160	260	450	750	1060
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 one additional unit (up to max. 31 units) into an already existent FDA-software licence (only for units with TwinDISPLAY)	FDAQ2								

Accessories Software and Connectivity	30	55	75	110	160	260	450	750	1060
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				
Ethernet connection cable 5 m for computer interface					E06189				
USB-Ethernet adapter					E06192				