UNIVERSAL OVENS U
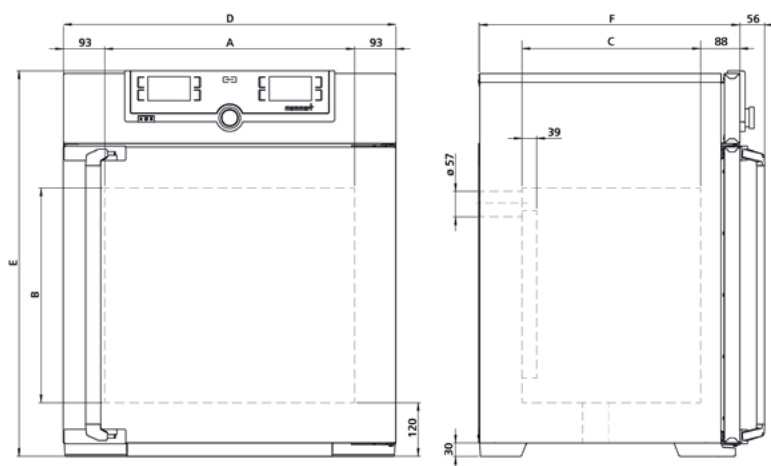
according to DIN 12880:2007-05; EN 61010-1 (IEC 61010-1); EN 61010-2-010   Standard units are safety-approved and bear the test marks:

Interior:	stainless steel, material 1.4301 (ASTM 304), with all-round deep-drawn ribs to integrate the largearea 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:	Ethernet LAN USB

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
	Electrical load at 3 x 208 V w/o neutral, 50/60 Hz		W				-			4800		5700
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	143	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

Standard equipment included in the standard scope of delivery. Prices for options are only valid when ordering new appliances. Not all options/accessories are combinable with each other. Please contact us for individual combination requests.

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				
Entry port with 23 mm clear diameter, can be closed, standard position — left centre/top					F1				
Entry port with 23 mm clear diameter, can be closed, standard position — right centre/centre					F2				
Entry port with 23 mm clear diameter, can be closed, standard position — right centre/top					F3				
Entry port with 23 mm clear diameter, can be closed, individual position (please state position) — left					F4				
Entry port with 23 mm clear diameter, can be closed, individual position (please state position) — right					F5				
Entry port with 23 mm clear diameter, can be closed, individual position (please state position) — 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				
4 - 20 mA current loop interface (0 to +310 °C = 4 - 20 mA) — 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				

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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)	B02070	B02072		B02073		B29726	B02075		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
Basic license for „AtmoCONTROL FDA Edition". Meets the requirements for the use of electronically stored records and electronic signatures as specified in the 21 CFR Part 11 regulation by the US Food and Drug Administration (FDA). For devices with TwinDISPLAY only. Respective IQ/OQ documents available in German and English (at no extra charge).					FDAQ1				
FDA integration license for an additional device (up to a maximum of 31 units) into an already purchased FDA basic license (for devices with TwinDISPLAY only).					FDAQ2				

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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				
Licence for documentation software Atmo-CONTROL and operation manual for products with SingleDISPLAY. When reordering please specify serial number.					B61641				
Ethernet connection cable 5 m for computer interface					E06189				
USB-Ethernet adapter					E06192				

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