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Product catalogue 01-2025

PRODUCT RANGE

CLIMATE CHAMBERS

HEATING AND DRYING OVENS

INCUBATORS

MEDICAL DEVICES

WATERBATHS

MADE IN GERMANY.

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Experts for controlled atmosphere

Over nine decades ago, our long and innovative tradition in climate and temperature control technology began. These many years of experience are irreplaceable, but new technologies, global trends and changing markets require a company that sees itself as a continuously researching and learning organism. Our mission: controlled atmosphere with a high degree of operating comfort, together with an outstanding cost/benefit ratio.

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Climate chambers



CONSTANT CLIMATE CHAMBERS
HPPeco



HUMIDITY CHAMBERS HCP



CLIMATE CHAMBERS ICH



ENVIRONMENTAL TEST CHAMBERS
CTC / TTC

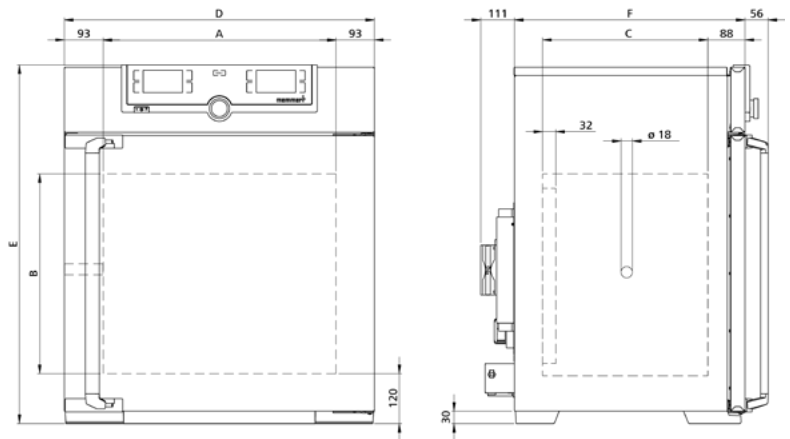
CONSTANT CLIMATE CHAMBERS HPPeco

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, mat. 1.4301 (ASTM 304), deepdrawn
- Housing:** textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Door:** Sizes 110 to 1060: fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door, Sizes 1400 and 2200: stainless steel doors with glass sectors, fully heated inner glass panes integrated in the full-sight glass door with 2-point locking (compression door lock), sizes 750, 1060 and 1400 two leaves, size 2200 three leaves
- Connection:** mains cable with plug (German type)
- Installation:** Sizes 110 and 260: 4 adjustable appliance feet, Sizes 410 to 1060: on lockable castors, Sizes 1400 and 2200: on height-adjustable and lockable castors
- Interfaces:**



Model sizes/Description				110	260	410	750	1060	1400	2200
Stainless steel interior	Volume	I		108	256	384	749	1060	1360	2140
	Width	(A)	mm	560	640		1040		1250	1972
	Height	(B)	mm	480	800	1200			1450	
	Depth (less 32 mm for fan - Peltier)	(C)	mm	400	500		600	850	750	
	Max. number of grids/shelves	number		5	9	14			28	42
	Max. loading per grid/shelf	kg		20			30	60	30	
	Max. loading of chamber	kg		150	200				250	330
	Max. loading per slide-in drip tray	kg		3	4		8		-	
	Max. loading per bottom drip tray	kg		3	4		8		-	
Textured stainless steel exterior	Width	(D)	mm	745	824		1224		1435	2157
	Height (sizes 410, 750, 1060, 1400 and 2200 with castors)	(E)	mm	864	1183	1720			1913	
	Depth (without door handle, depth of handle +56 mm, +111 mm Peltier element)	(F)	mm	555	655		755	1005	905	
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C	+25 °C / 60 % rh, +40 °C / 75 % rh							
	Stainless steel grid, electropolished	number	2						4	6
	Water tank including connection hose		●							
	Entry port (silicone), 18 mm clear diameter, moisture tight, can be closed by silicone stopper, in the side panel, centre left		●						-	
Temperature	Working temperature range without light, without humidity	°C	0 (at least 20 below ambient temperature) up to +70							
	Working temperature range without light, with humidity	°C	+5 (at least 20 below ambient temperature) up to +70						+15 (at least 10 below ambient temperature) up to +60	
	Working temperature range with light, without or with humidity	°C	+15 to +40				-			
	Setting temperature range without light, with humidity	°C	+5 to +70						+15 to +60	
	Setting temperature range with light, with humidity	°C	+5 to +70				-			
	Setting temperature range with light, without humidity	°C	0 to +70				-			
	Setting temperature range without light, without humidity	°C	0 to +70							
	Setting accuracy	°C	0.1							

Model sizes/Description			110	260	410	750	1060	1400	2200
Humidity	Setting range humidity without light	% rh	10 to 90					10 to 80	
	Setting range humidity with light	% rh	10 to 90				-		
	Setting accuracy	% rh	0.5						
Further data	Electrical load at 230 V, 50/60 Hz	W	420			700	1400		2000
	Electrical load at 115 V, 50/60 Hz	W	420			700	1400		-
	Electrical load at 115V/230V with equipment performance option P1	W	-	700		1400	-		
	Peltier elements in the rear	number	1			2	4		6
Packing data	Net weight	kg	64	94	134	197	259	347	474
	Gross weight (packed in carton)	kg	87	133	184	263	339	525	718
	Width	mm	830	930		1330	1370	1560	2300
	Height	mm	1050	1380	1930	1910	1970	2200	
	Depth	mm	800	930		1050	1300	1190	
Order No. Constant Climate Chambers			HPP110eco	HPP260eco	HPP410eco	HPP750eco	HPP1060eco	HPP1400eco	HPP2200eco

Options		110	260	410	750	1060	1400	2200
The performance option increases the number of installed Peltier modules in size 260 and 410 from 1 to 2, and in size 750 from 2 to 4 units. This enhances performance and improves technical specifications.		-	P1			-		
Temperature restriction; Temperature: +60 °C		A8					-	
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			-		
Cold white 6,500 K light module: LED light strips on the side walls, 10 for model 110, 14 for model 260/410/750, programme-controlled dimming from 0 to 100 % (in 1 % increments), ramp programming in conjunction with temperature and humidity. Requires option P1 for sizes 260, 410 and 750 at an extra charge. Standard feed-through not required for sizes 110 and 260.		T7			-			
Light module cold white 6,500 K + warm white 2,700 K: LED light strips - 10 for model 110, 14 for model 260/410/750 - (alternating 5 or 7 light strips cold white and 5 or 7 light strips warm white) on the side walls, programme-controlled dimming from 0 to 100 % (in 1 % increments), ramp programming in conjunction with temperature and humidity. Requires option P1 for sizes 260, 410 and 750 at an extra charge. Standard feed-through not required for sizes 110 and 260.		T8			-			
Light module warm white 2,700 K: LED light strips on the side walls, 10 for model 110, 14 for model 260/410/750, programme-controlled dimming from 0 - 100 % (in 1 % increments), ramp programming in conjunction with temperature and humidity. Requires option P1 for sizes 260, 410 and 750 at an extra charge. Standard feed-through not required for sizes 110 and 260.		T9			-			
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					-	
Entry port with 23 mm clear diameter, can be closed, standard position (F0 and F2 not for model size 260 with light module; F0 - F3 not for model size 110 with light module)	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 (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back (please state location)		F7					-	
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, standard position rear		D8						
4 - 20 mA current loop interface Temperature controller actual value (-10 to +80 °C = 4 - 20 mA)		V3						
Compressed air drying (efficient dehumidification of the interior by compressed air supply) - Standard factory calibration certificate (measuring point centre of usable space) for +10 °C with 10 % rh. (requires option P1 for sizes 260, 410 and 750 at an extra charge)		C9					-	
Door with lock and key (safety lock)	One lock	B6					-	
	Two locks (one each door)	-					B62	-
	Three locks (one each door)	-					B63	
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)		H6						
Process-dependent programmable door lock	One	D4					-	
	Two (one each door)	-					D42	-
	Three (one each door)	-					D43	

Options	110	260	410	750	1060	1400	2200
Door-open-recognition	One	V5				-	
	Two (one each door)	-				V52	-
	Three (one each door)	-				V53	
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)	C3						
MobileALERT for 2 alarm notifications; notification by SMS. temperature and humidity alarm (requires option H6)	C4						
Castor frame (2-part), height 140 mm	R9		-				

Accessories	110	260	410	750	1060	1400	2200
Stainless steel grid, electropolished	E20165	E28891		E20182	B41251	B38955	
Reinforced stainless steel grid, electropolished, max. loading 60 kg; size 750 with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber	E29767	E29766		B32190	B32550	-	
Stainless steel perforated sheet (may affect the temperature distribution). With option P1, the performance is increased for sizes 260, 410, and 750.	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. With option P1, the performance is increased for sizes 260, 410, and 750.		-		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)	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)	B04359	B29722		B04362	B29769	-	
Holder for water tank (sizes 110 - 750: 2.5 litres, sizes 1060/1400/2200: 10 litres) for mounting on the rear of the appliance. Standard equipment for sizes 410, 750, 1060, 1400 and 2200	B49092			-			
Central water supply with filter cartridges for connection to the domestic water supply. Product information on demand				ZWVR6			
Central water supply without filter cartridges for connection to the domestic water supply (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7). Product information on demand				ZWVR7			
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), with air slots	B29734	B29738	B42116	B29742		-	
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), without air slots	B29735	B29739	B42117	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 (height 500 mm)	B29749	B29751		-			
Subframe, on castors (height 560 mm)	B29750	-					
Subframe, adjustable in height, height 130 mm	B33661	B33664	-				
External measuring instrument with sensors for daylight and UV-light. Product information on demand	B04713				-		
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand	B04714						

Accessories Software and Connectivity	110	260	410	750	1060	1400	2200
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). 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.	FDAQ2						
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	B33170						
Ethernet connection cable 5 m for computer interface	E06189						
USB-Ethernet adapter	E06192						

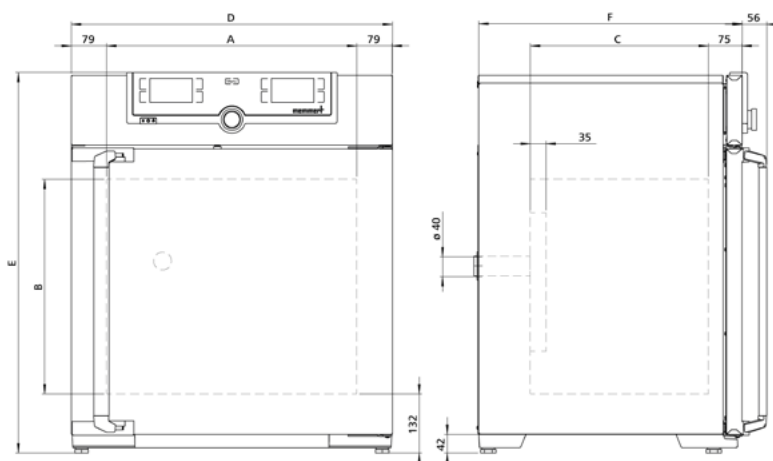
HUMIDITY CHAMBERS HCP

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), deepdrawn, seamlessly welded
- Housing: textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Door: fully insulated stainless steel door with 2-point locking (compression door lock) and heated inner glass door
- Connection: mains cable with plug (German type)
- Installation: 4 adjustable appliance feet
- Interfaces:



Model sizes/Description			50	105	150	240
Stainless steel interior	Volume	l	56	107	156	241
	Width	(A) mm	400	560		600
	Height	(B) mm	425	480	700	810
	Depth (less 35 mm for fan)	(C) mm	330	400		500
	Max. number of grids/shelves	number	5	6	10	12
	Max. loading per grid/shelf	kg	15			
	Max. loading of chamber	kg	75	90	120	140
Textured stainless steel exterior	Width	(D) mm	559	719		759
	Height	(E) mm	795	850	1070	1180
	Depth (without door handle, depth of handle +56 mm)	(F) mm	521	591		691
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C	+60 °C / 75 % rh			
	Perforated stainless steel shelf	number	1	2		
	Water tank including connection hose		●			
	Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back, centre left		●			
	Door-open-recognition		●			
Temperature	Working temperature range	°C	at least 7 above ambient temperature up to +90			
	Setting temperature range	°C	+18 to +90			
	Setting accuracy	°C	0.1			
Humidity	Setting range active humidity control	% rh	20 to 95 and rh-off			
	Setting accuracy	% rh	0.5			
Further data	Electrical load at 230 V, 50/60 Hz	W	1520	1720	1800	1840
	Electrical load at 115 V, 50/60 Hz	W	1520	1720	1800	1840
Packing data	Net weight	kg	55	75	90	110
	Gross weight (packed in carton)	kg	74	100	116	145
	Width	mm	730	800		840
	Height	mm	950	1030	1250	1360
	Depth	mm	640	800		900
Order No. Humidity Chambers			HCP50	HCP105	HCP150	HCP240

Options	50	105	150	240
Voltage 115 V, 50/60 Hz		X2		
Entry port with 23 mm clear diameter, can be closed, standard position		left centre/top		
		right centre/top		
4 - 20 mA current loop interface		Temperature controller, actual value (0 to +100 °C = 4 - 20 mA)		
		Humidity controller, actual value (0 to 100 % rh = 4 - 20 mA)		
Door with lock and key (safety lock)		B6		
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)		H6		
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)		C3		
MobileALERT for 2 alarm notifications; notification by SMS. temperature and humidity alarm (requires option H6)		C4		

Accessories	50	105	150	240
Stainless steel grid, electropolished	E20164	E20165	E43118	
Perforated stainless steel shelf	E35160	E37418	E35158	
Central water supply with filter cartridges for connection to the domestic water supply. Product information on demand	ZWVR6			
Central water supply without filter cartridges for connection to the domestic water supply (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7). Product information on demand	ZWVR7			
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size (requires subframe B33509 or B43598)	-			B48129
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size	-		B42114	-
Stacking set (4 pcs) for stacking of appliances of same size	B29744		-	
Subframe, on castors (height 120 mm; stainless steel, material 1.4301)	-			B43598
Subframe (622 mm high) adjustable in height (sizes 150/240: should not be used for 2 stacked units)	B33504	B33505		B33506
Subframe (130 mm high); sizes 150/240: only in combination with the corresponding stacking sets for stacked appliances	B33507	B33508		B33509
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand	B04714			

Accessories Software and Connectivity	50	105	150	240
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FDA integration license for an additional device (up to a maximum of 31 units) into an already purchased FDA basic license.	FDAQ2			
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	B33170			
Ethernet connection cable 5 m for computer interface	E06189			
USB-Ethernet adapter	E06192			

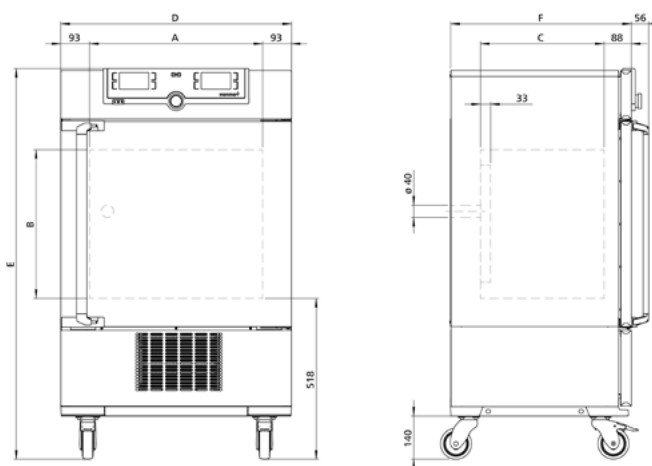
CLIMATE CHAMBERS ICH

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, mat. 1.4301 (ASTM 304), deepdrawn
- Housing: textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Door: fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door, size 750: two leaves
- Connection: mains cable with plug (German type)
- Installation: on lockable castors
- Interfaces:



Model sizes/Description			110	260	750
Stainless steel interior	Volume	l	108	256	749
	Width	(A) mm	560	640	1040
	Height	(B) mm	480	800	1200
	Depth (less 33 mm for fan)	(C) mm	400	500	600
	Max. number of grids/shelves	number	5	9	14
	Max. loading per grid/shelf	kg	20		30
	Max. loading of chamber	kg	150	200	
	Max. loading per slide-in drip tray	kg	3	4	8
	Max. loading per bottom drip tray	kg	3	4	8
Textured stainless steel exterior	Width	(D) mm	745	824	1224
	Height (with castors)	(E) mm	1233	1552	1950
	Depth (without door handle, depth of handle +56 mm)	(F) mm	585	685	785
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C	+10 °C , +37 °C , +30 °C / 60 % rh		
	Stainless steel grid, electropolished	number	2		
	Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by a silicone stopper, standard position at the back		●		
	Water tank including connection hose		●		
Temperature	Working temperature range without humidity ICH	°C	-10 to +60		
	Working temperature range ICH /ICH L with humidity and/or light	°C	+10 to +60		
	Working temperature range ICH L without humidity	°C	0 to +60		
	Setting temperature range ICH	°C	-10 to +60		
	Setting temperature range ICH L	°C	0 to +60		
	Setting accuracy	°C	0.1		
Humidity	Setting range humidity	% rh	10 to 80		
	Setting accuracy	% rh	0.5		
Light	Illumination unit (only ICH L) acc. ICH Q1B, option 2; separately switchable via controller, one box; Number of fluorescent lights with cold white light (size 110: 3, size 260/750: 4), Number of fluorescent lights with UV lamps (all sizes: 2)		●		
Further data	Electrical load at 230/115 V, 50/60 Hz ICH	W	1350		
	Electrical load at 230/115 V, 50/60 Hz ICH L	W	1450		1550
Packing data	Net weight	kg	109	160	249
	Gross weight (packed in carton)	kg	137	217	319
	Width	mm	880	930	1330
	Height	mm	1410	1760	2150
	Depth	mm	810	930	1050
Order No. Climate Chambers ICH = Climate chamber ICH L = Climate chamber with light			ICH110	ICH260	ICH750
			ICH110L	ICH260L	ICH750L

Options	110	260	750
Voltage 115 V, 50/60 Hz	X2		
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 standard grids by reinforced grids (ICH)	-		K1
Illumination unit (has to be ordered together with the chamber) consisting of 4 fluorescent lights with cold white light and 2 UV lamps according ICH Q1B, option 2, separately switchable via controller (only ICH L) second box	-	T72	
Alternative light boxes (replace the standard lighting; have to be ordered together with the chamber); number of fluorescent lamps: size 110: 5, sizes 260/750: 6, with cold white light according to ICH guideline Q1B, option 2 (only ICH L) one box	T81		
second box (cannot be switched on separately)	-	T82	
Alternative light boxes (replace the standard lighting; have to be ordered together with the chamber); number of fluorescent UV lamps: size 110: 5, sizes 260/750: 6, with UV-A radiation according to ICH guideline Q1B, option 2 (only ICH L) one box	T01		
second box (cannot be switched on separately)	-	T02	
Interior socket, ampacity 230V / 2,2A / 500W, can be switched off with the On/Off switch, cannot be switched individually, moisture tight IP68 (not for IICH110L) (max. one per appliance)	R3		
Entry port with 23 mm clear diameter, can be closed, standard position (F1 and F3 not for models ICH L) left centre/centre	F0		
	F1		
	-	F3	
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back (please state location). Not for models ICH L right centre/top	-	F7	
4 - 20 mA current loop interface Temperature controller actual value (-20 to +70 °C = 4 - 20 mA)	V3		
	V6		
	V7		
Fan speed monitoring with switching off the heating and with alarm in case of failure	V4		
Compressed air dehumidification (efficient dehumidification of the interior by means of compressed air). Standard works calibration certificate (measuring point chamber centre) at +10 °C with 10 % rh	C9		
Door with lock and key (safety lock)	B6		
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)	H6		
Door-open-recognition, shuts down humidity, light (standard with ICH L)	V5		
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)	C3		

Accessories	110	260	750
Stainless steel grid, electropolished	E20165	E28891	E20182
Reinforced stainless steel grid, electropolished, max. loading 60 kg; size 750 with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber	E29767	E29766	B32190
Perforated stainless steel shelf	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
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)	B02073	B29726	B02075
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)	B04359	B29722	B04362
Holder for water tank (2.5 litres) for mounting on the rear of the appliance. Standard equipment for size 750	E32172		-
Central water supply with filter cartridges for connection to the domestic water supply. Product information on demand	ZWVR6		
Central water supply without filter cartridges for connection to the domestic water supply (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7). Product information on demand	ZWVR7		
External measuring instrument with sensors for daylight and UV-light. Product information on demand (only ICH L)	B04713		
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand	B04714		

Accessories Software and Connectivity	110	260	750
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). 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.	FDAQ2		
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	B33170		
Ethernet connection cable 5 m for computer interface	E06189		
USB-Ethernet adapter	E06192		

ENVIRONMENTAL TEST CHAMBERS CTC / TTC

according to DIN 12880:2007-05; EN 61010-1 (IEC 61010-1); EN 61010-2-010; IEC 60068

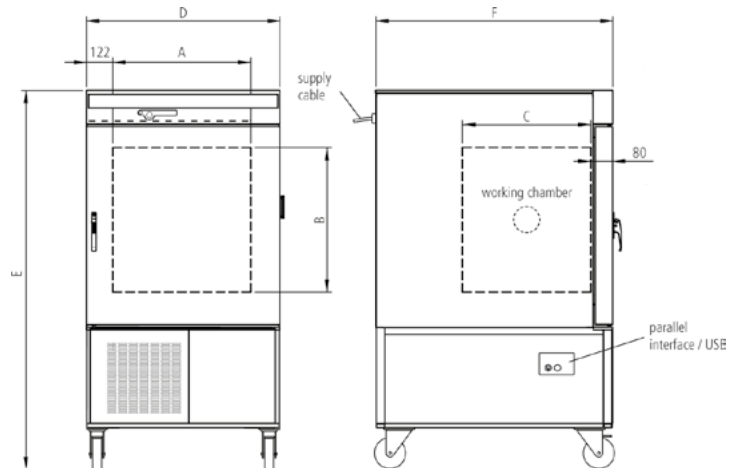
Standard units are safety-approved and bear the test marks:



- Interior: stainless steel, material 1.4301 (ASTM 304)
- Housing: textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), aesthetic functional glass-stainless steel operating panel with multifunction display and input module
- Door: fully insulated stainless steel door with double-locking and 4-point adjustment, heated
- Connection: mains cable with plug (CEE)
- Installation: on lockable castors
- Interfaces:



Ethernet interface is optional (extra cost)



Model sizes/Description				CTC256	TTC256
Stainless steel interior	Volume	I			256
	Width	(A)	mm		640
	Height	(B)	mm		670
	Depth	(C)	mm		597
	Max. number of grids	number			6
	Max. loading per grid/shelf	kg			25
	Max. loading of chamber	kg			100
Textured stainless steel exterior	Width (plus 20 mm for silicone plug and 5 mm for interfaces)	(D)	mm		898
	Height (with castors)	(E)	mm		1730
	Depth (without door handle, depth of handle +50 mm)	(F)	mm		1100
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C		+30 °C / 60 % rh	-
	Standard works calibration certificate (measuring point chamber center)			-20 , +160	
	Stainless steel grid, electropolished	number		1	
	Entry port right, 80 mm, with stopper			●	
Temperature	Temperature range with humidity control	°C		+10 to +95	-
	Temperature range without humidity control	°C		-42 to 190	
	Setting accuracy	°C		up to 99.9: 0.1 / from 100: 0.5	
	Temperature change rate in heating operation (acc. to IEC 60068-3-5) -40 °C to +180 °C measured at an ambient temperature of 22 °C	K/min		10	
	Temperature change rate in cooling operation (acc. to IEC 60068-3-5) +180 °C to -40 °C measured at an ambient temperature of 22 °C	K/min		3	
	Temperature variation in time (setpoint dependent of min. temperature up to +150 °C and humidity > 20 %)	K		± 0,2 ... 0,5	
	Temperature uniformity in chamber (setpoint dependent)	K		± 0,5 ... 2	
Humidity	Setting range active humidity control	% rh		10 to 98	-
	Humidity stability in time	% rh		± 1 ... 3	-
Further data	Electrical load at 400 V, 3 ph, 50 Hz	W		7000	
Packing data	Net weight	kg		337	
	Gross weight (packed in carton)	kg		463	
	Width	mm		1020	
	Height	mm		1910	
	Depth	mm		1310	
Order No. Climatic Test Chamber – Temperature Test Chamber				CTC256	TTC256

Options	CTC256	TTC256
Voltage 230 V, 60 Hz, 32 A	X2	
Full-sight glass door (5-layer insulating glazing), heated	B0	
Entry port, left, 80 mm, with stopper	F0	
Door hinged on the left	B8	
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)	H6	
Interface Ethernet instead of USB including software	W4	
RS232 interface instead of USB	W6	
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)	C3	

Accessories	CTC256	TTC256
Stainless steel grid, electropolished	E20591	
External measuring instrument with sensors for daylight and UV-light, with additional measuring head for temperature and humidity. Product information on demand	B04714	-

Accessories Software and Connectivity	CTC256	TTC256
Software conforming to FDA "Celsius FDA Edition". 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	E05019	
Integration of additional units (up to max. 15 units) into an already existent FDA-software licence (E05019)	FDAQ4	
External control and logging package consisting of mini-Notebook and software "Celsius", pre-configured, and lateral swivel arm	B04410	
USB connection cable for computer interface	E03643	
Additional chip card, blank, formatted (32 kB MEMoryCard XL for a maximum of 40 ramps)	E04004	
Oven-linked authorisation card (User-ID-Card) prevents undesired manipulation by unauthorised third parties. When reordering please specify serial number	E04159	
Temperature profile write/read unit for programming via PC, for writing to and reading from the chip card, up to 40 ramps	E05284	

PERSONAL NOTES





Heating and drying ovens



UNIVERSAL OVENS U



PASS-THROUGH OVENS UF TS



PARAFFIN OVENS UNpa



VACUUM OVENS VO

UNIVERSAL OVENS U

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

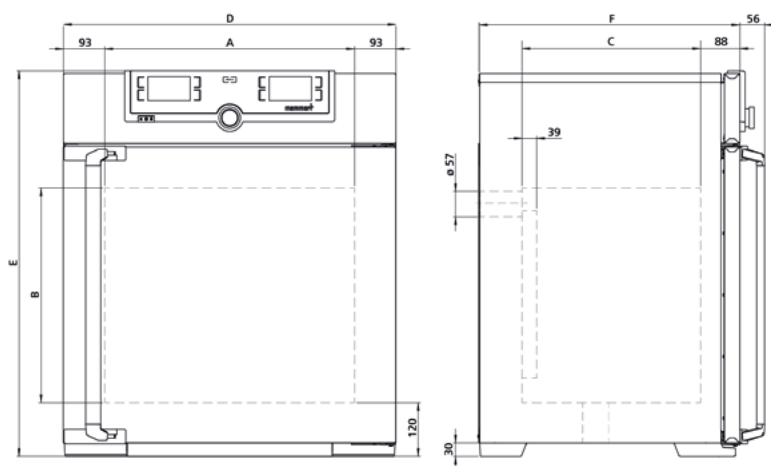
Standard units are safety-approved and bear the test marks:



- 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		
	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	

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)	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								

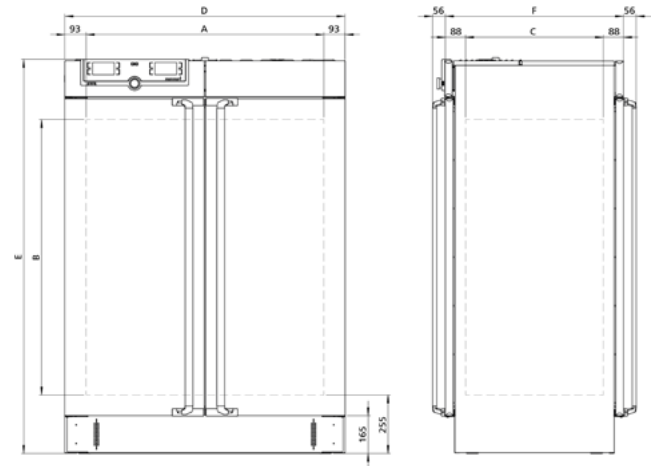
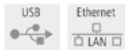
PASS-THROUGH OVENS UF TS

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), intuitively operated 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: 4 adjustable appliance feet
- Interfaces:



Model sizes/Description				160	260	450	750
Stainless steel interior	Volume	l		161	256	449	749
	Width	(A)	mm	560	640	1040	
	Height	(B)	mm	720	800	720	1200
	Depth	(C)	mm	400	500	600	
	Max. number of grids/shelves	number		8	9	8	14
	Max. loading per grid/shelf	kg		20		30	
	Max. loading of chamber	kg		210	300		
	Max. loading per slide-in drip tray	kg		3	4	8	
	Max. loading per bottom drip tray	kg		3	4	8	
Textured stainless steel exterior	Width	(D)	mm	745	825	1224	
	Height	(E)	mm	1233	1314	1233	1714
	Depth (without door handle, depth of handle 2x +56 mm)	(F)	mm	582	682	782	
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C		+ 160			
	Stainless steel grid, electropolished	number		2			
Temperature	Working temperature range	°C		at least 10 above ambient temperature up to +250			
	Setting temperature range	°C		+20 to +250			
	Setting accuracy	°C		up to 99.9: 0.1 / from 100: 0.5			
Further data	Electrical load at 230 V, 50/60 Hz	W		3200	3400	-	
	Electrical load at 115 V, 50/60 Hz	W		1800		-	
	Electrical load at 400 V and 3 x 230V w/o neutral, 50/60 Hz	W		-		5800	5000
	Electrical load at 3 x 208 V w/o neutral, 50/60 Hz	W		-		4800	4080
Packing data	Net weight	kg		120	138	213	260
	Gross weight (packed in carton)	kg		146	189	279	331
	Width	mm		830	930	1330	
	Height	mm		1300	1380	1450	1920
	Depth	mm		800	930	1050	
Order No. Pass-Through Ovens				UF160TS	UF260TS	UF450TS	UF750TS

Options	160	260	450	750
Voltage 115 V, 50/60 Hz	X2		-	
Temperature restriction; Temperatures: +60, +70, +80, +95, +100, +120, +160, +180 or +200 °C (Please indicate upon ordering)			A8	
Full-sight glass door (4 layer insulating glass) - extra cost per side - Temperature-range up to max. +250 °C			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 standard grids by reinforced grids	-		K1	
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		
Locking mechanism to prevent simultaneous opening of doors for contamination protection in case of wall installation (requires option V5)			D5	
4 - 20 mA current loop interface (0 to +260 °C = 4 - 20 mA)	Temperature controller, actual value		V3	
	Temperature of a Pt100 sensor positioned flexibly in chamber for external temperature monitoring (max. 3) - price per sensor		V6	
Fan speed monitoring with switching off the heating and with alarm in case of failure			V4	
Door with lock (safety lock); per side			B6	
Door hinged on the left; price per side	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 electromagnetic door lock (both sides)			D4	
Door-open-recognition; per side			V5	
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	

Accessories	160	260	450	750
Stainless steel grid, electropolished	E20165	E28891	E20182	
Reinforced stainless steel grid, electropolished, max. loading 60 kg; with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber	-		B32190	
Perforated stainless steel shelf	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	
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)	B02073	B29726	B02075	
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)	B04359	B29722	B04362	
Flush-fit unit set (stainless steel frame covering gap between oven and wall opening), without air slots - technical clarification required	B33204	B33205	B33206	B33207
Set of height adjustable feet (4 pcs)	B29768		-	

Accessories Software and Connectivity	160	260	450	750
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FDA integration license for an additional device (up to a maximum of 31 units) into an already purchased FDA basic license.	FDAQ2			
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	B33170			
Ethernet connection cable 5 m for computer interface	E06189			
USB-Ethernet adapter	E06192			

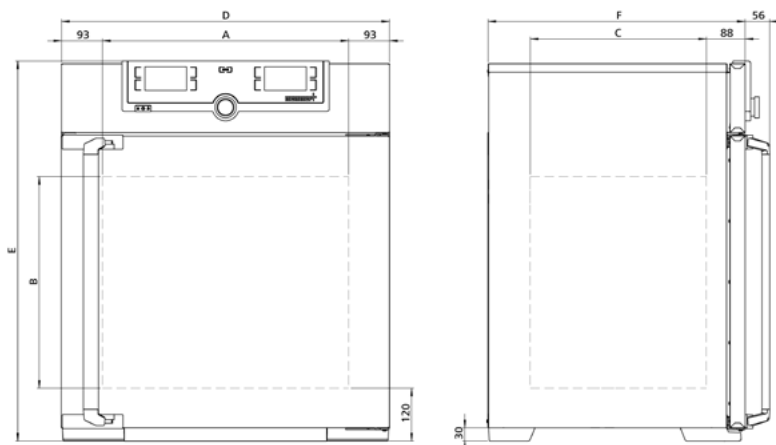
PARAFFIN OVENS UNpa

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 TwinDISPLAY (TFT colour display) with touchscreen
- Door:** fully insulated stainless steel doors with 2-point locking (compression door lock)
- Connection:** mains cable with plug (German type)
- Installation:** 4 adjustable appliance feet
- Interfaces:**



Model sizes/Description				30	55	75	110	160
Stainless steel interior	Volume	l		32	53	74	108	161
	Width	(A) mm			400		560	
	Height	(B) mm		320	400	560	480	720
	Depth	(C) mm		250		330	400	
	Max. number of grids/shelves	number		3	4	6	5	8
	Max. loading per grid/shelf	kg				20		
	Max. loading of chamber	kg		60	80	120	175	210
	Max. loading per slide-in drip tray	kg			1.5		3	
	Max. loading per bottom drip tray	kg			1.5		3	
Textured stainless steel exterior	Width	(D) mm			585		745	
	Height	(E) mm		704	784	944	864	1104
	Depth (without door handle, depth of handle +56 mm)	(F) mm		434		514	584	
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C				+80		
	Stainless steel grid, electropolished	number			1		2	
Temperature	Working temperature range	°C				at least 5 above ambient temperature up to +80		
	Setting temperature range	°C				+20 to +80		
	Setting accuracy	°C				0.1		
Further data	Electrical load at 230 V, 50/60 Hz	W		1600	1000	1250	1400	1600
	Electrical load at 115 V, 50/60 Hz	W		800		900		
Packing data	Net weight	kg		45	55	66	75	96
	Gross weight (packed in carton)	kg		61	74	85	100	122
	Width	mm		660		730	830	
	Height	mm		890	950	1130	1050	1300
	Depth	mm		650		670	800	
Order No. Paraffin Ovens				UN30pa	UN55pa	UN75pa	UN110pa	UN160pa

Options	30	55	75	110	160
Voltage 115 V, 50/60 Hz			X2		
Full-sight glass door (4-layer insulating glass)			B0		
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 (silicone), 40 mm clear diameter, gas tight, can be closed by silicone stopper, in special positions at the back (please state location) - technical clarification required			F7		
4 - 20 mA current loop interface (0 to +90 °C = 4 - 20 mA)	Temperature controller, actual value		V3		
	Temperature of a Pt100 sensor positioned flexibly in chamber for external temperature monitoring (max. 3) - price per sensor		V6		
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.)	2 contacts		H72		
Process-dependent programmable door lock			D4		
Door-open-recognition			V5		
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		

Accessories	30	55	75	110	160
Stainless steel grid, electropolished	E28884	E20164		E20165	
Perforated stainless steel shelf	B29727	B03916		B00325	
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution)	B02070	B02072		B02073	
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution)	B04356	B04358		B04359	
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
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), without air slots	B29729	B29731	B29733	B29735	B29737
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	
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	

Accessories Software and Connectivity	30	55	75	110	160
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). 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.			FDAQ2		
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			B33170		
Ethernet connection cable 5 m for computer interface			E06189		
USB-Ethernet adapter			E06192		

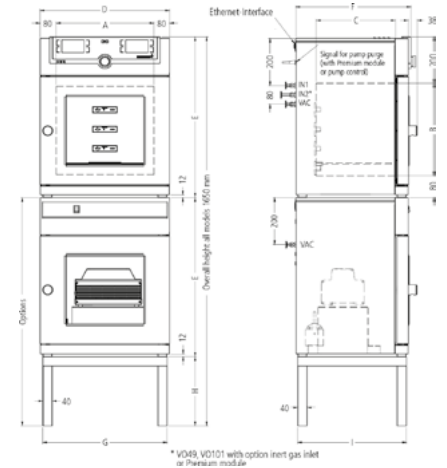
VACUUM OVENS VO

according to DIN 12880:2007-05; EN 61010-1 (IEC 61010-1)

Standard units are safety-approved and bear the test marks:



- Interior:** stainless steel interior, material 1.4404 (ASTM 316 L), hermetically welded, with removable mountings at the sides for cleaning, including thermoshelf guide bars, as well as mounting on top to avoid turbulences
- Housing:** textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Door:** full-sight glass door, inside spring-loaded, 1 5mm thick glazed panel in safety glass, outside with anti-splitter screen
- Connection:** mains cable with plug (German type)
- Installation:** 4 adjustable appliance feet
- Interfaces:**



Model sizes/Description				29	49	101
Stainless steel interior	Volume		l	29	49	101
	Width	(A)	mm	385		545
	Height	(B)	mm	305	385	465
	Depth	(C)	mm	250	330	400
	Max. number of thermoshelves		number	1	2	
	Max. number of thermoshelves (with premium module)		number	2	4	
	Max. loading of chamber		kg	40	60	
	Max. loading per thermoshelf		kg	20		
Textured stainless steel exterior	Width	(D)	mm	550		710
	Height	(E)	mm	607	687	767
	Depth (without door handle, depth of handle +38 mm)	(F)	mm	400	480	550
Standard equipment	Works calibration certificate (measuring point in the middle of the individual shelf for +160 °C at 20 mbar pressure): a separate certificate is prepared for each thermoshelf ordered and shipped together with the vacuum oven			●		
	Thermoshelf - aluminium eloxadised material W.-St. 3.3547 (ASTM B209) with integrated large-area heating including local temperature sensing (Pt100, 4-wire-circuit); individual overtemp. protection for each shelf MLOP (Multi-Level-Over-temperature-Control) and calibration certificate (Calibration certificate only possible when ordering a new appliance)			number	1	
Temperature	Working temperature range	°C		at least 5 above ambient temperature up to +200		
	Setting temperature range	°C		+20 to +200		
	Setting accuracy	°C		up to 99.9: 0.1 / from 100: 0.5		
	Temperature variation in time (aluminium thermoshelf)	K		≤ ± 0,3		
	Temperature uniformity (surface) at +160 °C/20 mbar (aluminium thermoshelf)	K		≤ ± 2,5		
Pressure (vacuum)	Adjustment range pressure	mbar		5 to 1100		
	Permitted final vacuum	mbar		0.01		
	Maximum leakage rate	bar/h		0.01		
Further data	Subframe tubular steel (extra cost), black enamelled (for stacking unit consisting of vacuum oven and pump module, total height: 1650 mm, see sketch of oven dimensions G/H/I) Width/Height/Depth	mm		529/450/383	529/290/463	689/130/533
	Electrical load at 230 V, 50/60 Hz	W		820	2020	2420
Packing data	Net weight	kg		55	83	110
	Gross weight (packed in carton)	kg		76	104	135
	Packed dimensions (Width, Height, Depth)			660/870/590		830/1050/800
	Net weight pump module without/with pump	kg		25/41	30/46	41/57
	Gross weight pump module without/with pump (packed in carton)	kg		46/62	51/67	66/82
	Packed dimensions pump module (Width, Height, Depth)	mm		660/870/590		830/1050/800
Order No. Vacuum Ovens				V029	V049	V0101

Options	29	49	101
Premium module: comprises the inert gas inlet, extra connectors for thermoshelves, 1 (size 29), 2 (sizes 49/101), an additional thermoshelf (sizes 49/101)	T5		
4 - 20 mA current loop interface (requires option T5)	V6		
Temperature of a Pt100 sensor positioned flexibly in chamber for external temperature monitoring - price per sensor Temperature actual value (0 to 210 °C = 4 - 20 mA)	-	V3	
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)	H6		
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)	C3		
MobileALERT for 2 alarm notifications; notification by SMS. temperature and vacuum alarm (requires option T5 and H6)	-	C4	

Accessories	29	49	101
Thermoshelf - stainless steel material 1.4404 (ASTM 316 L) for especially corrosive material with integrated large-area heating including local temperature sensing (Pt100, 4-wire-circuit); individual overtemp. protection for each shelf MLOP (Multi-Level-Over-temperature-Control) and calibration certificate (Calibration certificate only possible when ordering a new appliance)	B00733	B00734	B00735
Thermoshelf - aluminium eloxadised material W.-St. 3.3547 (ASTM B209) with integrated large-area heating including local temperature sensing (Pt100, 4-wire-circuit); individual overtemp. protection for each shelf MLOP (Multi-Level-Over-temperature-Control) and calibration certificate (Calibration certificate only possible when ordering a new appliance)	B00741	B00743	B00744
Subframe, tubular steel, black enamelled (for stacking unit consisting of vacuum oven and pump module, total height: 1650 mm, see „further data“ and sketch of oven dimensions)	E02030	E02031	E02037
Signal cable (3 m) for control of rotation speed and optimising pump performance by demand-controlled activation of purge of Memmert pump (not required with pump module)	B39410		
Noise-insulated vacuum pump module without pump (exterior dimensions and -material No. s. vacuum oven) with antivibration metal plate at the bottom to accommodate the vacuum pump, incl. full-sight glass door. Socket, signal cable and connecting hose to the vacuum oven	PM29	PM49	PM101
Noise-insulated vacuum pump module, as above, however with built-in pump, 230 V, 50/60 Hz	PMP29	PMP49	PMP101
Vacuum connecting hose (3 m) from oven to Memmert pump incl. optimised connection accessories (partially stainless steel), (not required with pump module)	B04026		
Vacuum pump with chemically resistant 4x diaphragm, pump capacity at atm. pressures: approx. 50 NL./min = 3,0 m³/h and autom. purge control, 230 V, 50 Hz. Max. guarantee period 2 years (requires accessories B39410 and B04026)	E07509		

Accessories Software and Connectivity	29	49	101
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FDA integration license for an additional device (up to a maximum of 31 units) into an already purchased FDA basic license.	FDAQ2		
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	B33170		
Ethernet connection cable 5 m for computer interface	E06189		
USB-Ethernet adapter	E06192		



Incubators



INCUBATORS I



CO₂ INCUBATORS ICO



COMPRESSOR-COOLED
INCUBATORS ICP



PELTIER-COOLED INCUBATORS
IPPeco

INCUBATORS I

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

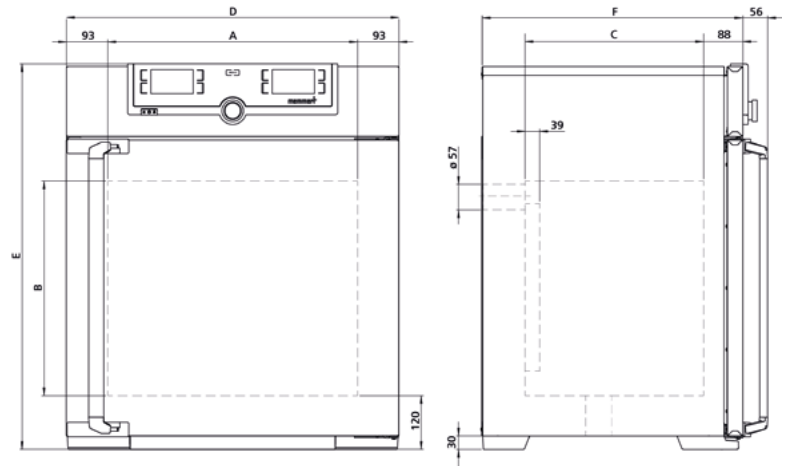
Standard units are safety-approved and bear the test marks:



- 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) and inner glass door, from size 450 two leaves
- Connection:** mains cable with plug (German type)
- Installation:** Sizes 30 to 260: 4 adjustable appliance feet, Sizes 450 and 750: on lockable castors
- Interfaces:**



USB: only TwinDISPLAY



Model sizes/Description			30	55	75	110	160	260	450	750	
Stainless steel interior	Volume	l	32	53	74	108	161	256	449	749	
	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		
	Max. number of grids/shelves	number	3	4	6	5	8	9	8	14	
	Max. loading per grid/shelf	kg	20						30		
	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 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		
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C	+37								
	Stainless steel grid, electropolished	number	1		2						
Temperature	Working temperature range	°C	at least 5 (IN/INplus) 10 (IF/IFplus) above ambient temperature up to +80								
	Setting temperature range	°C	+20 to +80								
	Setting accuracy	°C	0.1								
Further data	Electrical load at 230 V, 50/60 Hz	W	1600	1000	1250	1400	1600	1700	1800	2000	
	Electrical load at 115 V, 50/60 Hz	W	800	900					1500	1800	
Packing data	Net weight	kg	48	57	66	76	96	110	161	217	
	Gross weight (packed in carton)	kg	64	76	85	101	122	143	227	288	
	Width	mm	660	730		830		930	1330		
	Height	mm	890	950	1130	1050	1300	1380	1440	1910	
	Depth	mm	650	670		800		930	1050		
Order No. Incubators I = Incubator N = Natural convection F = Forced air circulation plus = Model with TwinDISPLAY			IN30	IN55	IN75	IN110	IN160	IN260	IN450	IN750	
			IN30plus	IN55plus	IN75plus	IN110plus	IN160plus	IN260plus	IN450plus	IN750plus	
			IF30	IF55	IF75	IF110	IF160	IF260	IF450	IF750	
			IF30plus	IF55plus	IF75plus	IF110plus	IF160plus	IF260plus	IF450plus	IF750plus	

Options	30	55	75	110	160	260	450	750	
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: +50, +55, +60, +65, +70 or +75 °C (Please indicate upon ordering)	A8								
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 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 230V / 2,2A / 500W, can be switched off with the On/Off switch, cannot be switched individually, moisture tight IP68 (only with SingleDISPLAY), (option A8 necessary against surcharge) (max. one per appliance)	R3								
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 +90 °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 - only for IFplus	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								
Door-open-recognition (only for units with TwinDISPLAY)	V5								
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
Stainless steel grid, electropolished	E28884	E20164		E20165		E28891	E20182	
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	
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		
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	
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution, requires option K1)				-		B34055		

Accessories	30	55	75	110	160	260	450	750
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	
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
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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							
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 AtmoCONTROL 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							

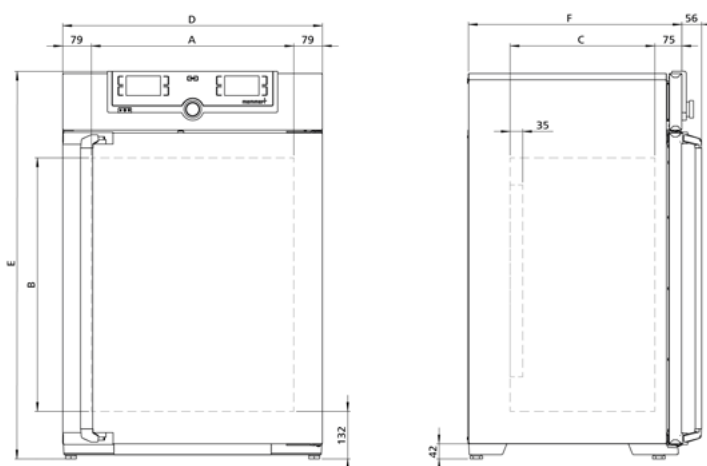
CO₂ INCUBATORS ICO

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), deepdrawn, seamlessly welded
- Housing: textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Door: fully insulated stainless steel door with 2-point locking (compression door lock) and heated inner glass door
- Connection: mains cable with plug (German type)
- Installation: 4 adjustable appliance feet
- Interfaces:



Model sizes/Description				50	105	150	240
Stainless steel interior	Volume		l	56	107	156	241
	Width	(A)	mm	400	560		600
	Height	(B)	mm	425	480	700	810
	Depth (less 35 mm for fan)	(C)	mm	330	400		500
	Max. number of grids/shelves		number	5	6	10	12
	Max. loading per grid/shelf		kg	15			
	Max. loading of chamber		kg	75	90	120	140
Textured stainless steel exterior	Width	(D)	mm	559	719		759
	Height	(E)	mm	795	850	1070	1180
	Depth (without door handle, depth of handle +56 mm)	(F)	mm	521	591		691
Standard equipment	Works calibration certificate (measuring point chamber centre) at +37 °C, 5 % CO ₂ for standard units			●			
	Works calibration certificate at +37 °C, 5 % CO ₂ and 90 % rh (requires option K7); standard equipment for units with active humidity control			●			
	Works calibration certificate at +37 °C, 5 % CO ₂ , 90 % rh and 10 % O ₂ (requires option K7 and option T6); standard equipment for units with O ₂ control			●			
	Perforated stainless steel shelf	number	1	2			
	Stainless steel water dish (not applicable with option K7)			●			
	CO ₂ connection set: hose with coupling and clamp			●			
	Standard sterilisation programme (without removing the sensors), humidity and CO ₂ sensor sterilised inside the CO ₂ incubator			60 minutes at 180 °C			
	Membrane filter (in order to remove impurities and pollutants, all incoming gases pass through a membrane filter before they reach the chamber)			●			
Temperature	Working temperature range	°C	at least 5 above ambient temperature up to +50				
	Setting temperature range	°C	+18 to +50				
	Setting accuracy	°C	0.1				
	Temperature fluctuations with time at +37 °C	K	± 0,1				
	Temperature variation in chamber at +37 °C	K	± 0,3				
Humidity	Setting range active humidity control (with option K7)	% rh	40 to 97 and rh-off				
	Setting accuracy	% rh	0.5				
CO ₂ / O ₂	Variation in time CO ₂	% CO ₂	± 0,2				
	Setting accuracy CO ₂	% CO ₂	0,1				
	Setting range CO ₂	% CO ₂	0 to 20				
	Setting accuracy O ₂	% O ₂	0.1				
	Setting range O ₂	% O ₂	1 to 20				
Further data	Electrical load at 230 V, 50/60 Hz	W	1100	1300	1500	1650	
	Electrical load at 115 V, 50/60 Hz	W	1100	1300	1500	1650	

Model sizes/Description			50	105	150	240
Packing data	Net weight	kg	55	75	90	110
	Gross weight (packed in carton)	kg	74	100	116	145
	Width	mm	730	800		840
	Height	mm	950	1030	1250	1360
	Depth	mm	640	800		900
Order No. CO₂ Incubators			ICO50	ICO105	ICO150	ICO240

Options		50	105	150	240
Voltage 115 V, 50/60 Hz				X2	
Two gas connections with quick release connectors for automatic switch-over of gas cylinders; incl. two CO ₂ connection sets: hose with coupling and clamp				T1	
Electropolished interior				T2	
Active microprocessor control for humidifying and dehumidifying (40 - 97 % rh), incl. digital indication and auto-diagnostic system ensures even more rapid reaching of set humidity and very short recovery times while avoiding condensate formation. Humidity supply with water (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7; from an external tank) by a self-priming pump; integral bacteria block by generating hot steam, dehumidifying via sterile filter (combination of options K7 and F7 for ICO50 not possible)				K7	
Control of oxygen concentration by N ₂ inlet; adjustment range 1 % up to 20 % O ₂ ; setting accuracy 0.1 % (requires option K7). Incl. N ₂ connection set: hose with coupling and clamp				T6	
Peltier cooling unit enables a working temperature of +37 °C even at higher ambient temperatures of up to +35 °C (combination of options K5 and F7 for ICO50 and ICO105 not possible)				K5	
Capacitive humidity sensor for measuring and displaying the relative humidity				K6	
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back, centre right; not available for ICO50 with active humidity control (option K7) or humidity display (option K6)				F7	
4 - 20 mA current loop interface	Temperature controller, actual value (0 to +70 °C = 4 - 20 mA)			V3	
	Humidity controller, actual value (0 to 100 % rh = 4 - 20 mA) (requires option K7 or K6)			V7	
	CO ₂ controller, actual value (0 to 25 % CO ₂ = 4 - 20 mA) (requires option T6 or K7)			V9	
	O ₂ controller, actual value (0 to 25 % O ₂ = 4 - 20 mA) (requires option T6 or K7)			V1	
Heated inner door with partitioned glass doors; size 105/150/240 has 2/3/4 partitioned glass doors		-		K4	
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	
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)				C3	
MobileALERT for up to 4 alarm messages (requires option H6 and K6 or K7); alarm via SMS text; temperature and CO ₂ alarm (standard), additionally humidity alarm (with option K6 or K7) and O ₂ alarm (with option T6)				C4	

Accessories		50	105	150	240
Perforated stainless steel shelf		E35160		E37418	E35158
Central water supply, with filter cartridges for connection to the domestic water supply (requires option K7). Product information on demand				ZWVR6	
Central water supply, without filter cartridges for connection to the domestic water supply (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7, requires option K7). Product information on demand				ZWVR7	
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size (requires subframe B33509 or B43598)			-		B48129
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size			-	B42114	-
Stacking set (4 pcs) for stacking of appliances of same size			B29744		-
Subframe, on castors (height 120 mm; stainless steel, material 1.4301)			-		B43598
Subframe (622 mm high) adjustable in height (sizes 150/240: should not be used for 2 stacked units)		B33504		B33505	B33506
Subframe (130 mm high); sizes 150/240: only in combination with the corresponding stacking sets for stacked appliances		B33507		B33508	B33509
Water dish				B38737	
3 HEPA14-filters (B49800) for chamber according to EN 1822, packed in sterile condition, incl. fixing unit				B39698	
HEPA14-filter for chamber according to EN 1822, packed in sterile condition, incl. fixing unit				B49800	
CO ₂ pressure reducing valve to DIN 8546, incl. gas cylinder monitor				E02087	
N ₂ pressure reducing valve to DIN EN ISO 2503, incl. gas cylinder monitor (requires option T6)				E06162	
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand				B04714	

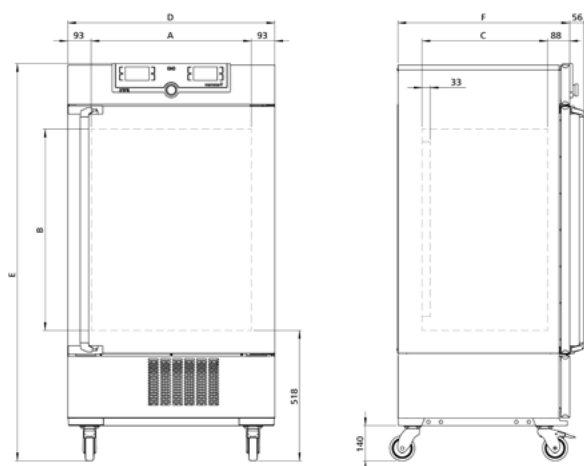
COMPRESSOR-COOLED INCUBATORS ICP

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, mat. 1.4301 (ASTM 304), deepdrawn
- Housing: textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Door: fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door, from size 450 two leaves
- Connection: mains cable with plug (German type)
- Installation: on lockable castors
- Interfaces:



Model sizes/Description				110	260	450	750
Stainless steel interior	Volume	l		108	256	449	749
	Width	(A)	mm	560	640	1040	
	Height	(B)	mm	480	800	720	1200
	Depth (less 33 mm for fan)	(C)	mm	400	500	600	
	Max. number of grids/shelves	number		5	9	8	14
	Max. loading per grid/shelf	kg		20		30	
	Max. loading of chamber	kg		150	200		
	Max. loading per slide-in drip tray	kg		3	4	8	
	Max. loading per bottom drip tray	kg		3	4	8	
Textured stainless steel exterior	Width	(D)	mm	745	824	1224	
	Height	(E)	mm	1233	1552	1467	1950
	Depth (without door handle, depth of handle +56 mm)	(F)	mm	584	684	784	
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C		+10 , +37			
	Stainless steel grid, electropolished	number		2			
Temperature	Working temperature range	°C		-12 to +60			
	Setting temperature range	°C		-12 to +60			
	Setting accuracy	°C		0.1			
Further data	Electrical load at 230 V, 50/60 Hz	W		1200			
	Electrical load at 115 V, 50/60 Hz	W		1200			
Packing data	Net weight	kg		113	157	217	249
	Gross weight (packed in carton)	kg		141	214	282	319
	Width	mm		880	930	1330	
	Height	mm		1410	1760	1700	2150
	Depth	mm		810	930	1050	
Order No. Compressor-Cooled Incubators				ICP110	ICP260	ICP450	ICP750

Options	110	260	450	750
Voltage 115 V, 50/60 Hz	X2			
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 standard grids by reinforced grids	-	K1		
Interior socket, ampacity 230V / 2,2A / 500W, can be switched off with the On/Off switch, cannot be switched individually, moisture tight IP68 (max. one per appliance)	R3			
Entry port with 23 mm clear diameter, can be closed, standard position	left centre/centre	F0		
	left centre/top	F1		
	right centre/top	-	F3	
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back (please state location)	F7			
4 - 20 mA current loop interface	Temperature controller actual value (-20 to +70 °C = 4 - 20 mA)		V3	
	Temperature of a Pt100 sensor positioned flexibly in chamber for external temperature monitoring (max. 3) - price per sensor (-20 to +70 °C = 4 - 20 mA)		V6	
Fan speed monitoring with switching off the heating and with alarm in case of failure	V4			
Door with lock and key (safety lock)	B6			
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)	H6			
Door-open-recognition	V5			
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)	C3			

Accessories	110	260	450	750
Stainless steel grid, electropolished	E20165	E28891	E20182	
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	
Perforated stainless steel shelf	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	
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)	B02073	B29726	B02075	
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)	B04359	B29722	B04362	

Accessories Software and Connectivity	110	260	450	750
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). 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.	FDAQ2			
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	B33170			
Ethernet connection cable 5 m for computer interface	E06189			
USB-Ethernet adapter	E06192			

PELTIER-COOLED INCUBATORS IPPeco

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

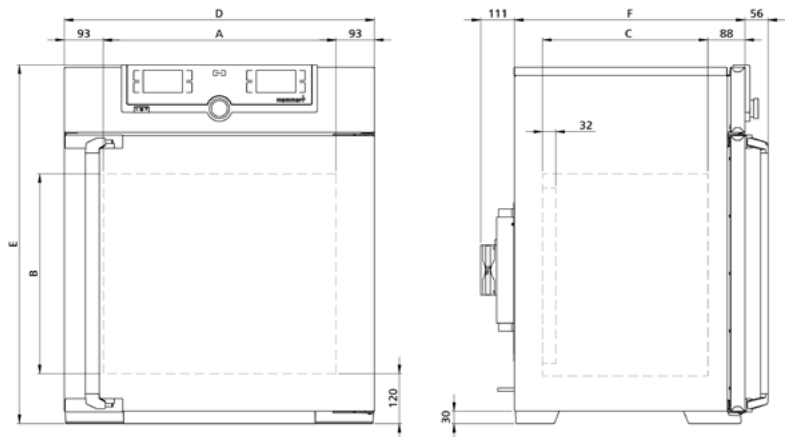
Standard units are safety-approved and bear the test marks:



- Interior:** stainless steel, mat. 1.4301 (ASTM 304), deepdrawn
- 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:** Sizes 30 to 1060: fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door, Sizes 1400 and 2200: stainless steel doors with glass sectors, fully heated inner glass panes integrated in the full-sight glass door with 2-point locking (compression door lock), sizes 750, 1060 and 1400 two leaves, size 2200 three leaves
- Connection:** mains cable with plug (German type)
- Installation:** Sizes 30 to 260: 4 adjustable appliance feet, Sizes 410 to 1060: on lockable castors, Sizes 1400 and 2200: on height-adjustable and lockable castors
- Interfaces:**



USB: only TwinDISPLAY



Model sizes/Description				30	55	110	260	410	750	1060	1400	2200
Stainless steel interior	Volume		l	32	53	108	256	384	749	1060	1360	2140
	Width	(A)	mm	400		560	640		1040		1250	1972
	Height	(B)	mm	320	400	480	800	1200			1450	
	Depth (less 10 mm (sizes 30 and 55, less 32 mm), (sizes 110 to 2200) for fan – Peltier)	(C)	mm	250	330	400	500		600	850	750	
	Max. number of grids/shelves		number	3	4	5	9	14			28	42
	Max. loading per grid/shelf		kg	20			30			60	30	
	Max. loading of chamber		kg	60	80	150	200				250	330
	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		1435	2157
	Height (sizes 410, 750, 1060, 1400 and 2200 with castors)	(E)	mm	704	784	864	1183	1720			1913	
	Depth (without door handle, depth of handle +56 mm, +111 mm Peltier element)	(F)	mm	434	514	555	655		755	1005	905	
Standard equipment	Standard works calibration certificate (measuring point chamber center)		°C	+10, +25, +40								
	Stainless steel grid, electropolished		number	1		2					4	6
Temperature	Working temperature range without light		°C	0 (at least 20 below ambient temperature) up to +70								
	Working temperature range with light		°C	-		+10 to +40				-		
	Setting temperature range		°C	0 to +70								
	Setting accuracy		°C	0.1								
Further data	Electrical load at 230 V, 50/60 Hz		W	140	275	320	600		1300			1900
	Electrical load at 115 V, 50/60 Hz		W	140	275	320	600		1300			-
	Peltier elements in the rear		number	1			2		4		6	
Packing data	Net weight		kg	40	52	63	99	139	208	256	345	473
	Gross weight (packed in carton)		kg	56	71	86	138	190	274	335	523	717
	Width		mm	660	730	830	930		1330	1370	1560	2300
	Height		mm	890	950	1050	1380	1930	1910	1970	2200	
	Depth		mm	650	670	800	930		1050	1300	1190	
Order No. Peltier-Cooled Incubators IPP = Peltier-Cooled Incubators plus = Model with TwinDISPLAY				IPP30	IPP55	IPP110eco	IPP260eco	IPP410eco	IPP750eco	IPP1060eco	IPP1400eco	IPP2200eco
				IPP30plus	IPP55plus	IPP110ecoplus	IPP260ecoplus	IPP410ecoplus	IPP750ecoplus	IPP1060ecoplus	IPP1400ecoplus	IPP2200ecoplus

Options	30	55	110	260	410	750	1060	1400	2200
Voltage 115 V, 50/60 Hz (not required for sizes 110 to 2200)	X2		-						
Temperature restriction; Temperature: +60 °C	A8							-	
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	-		
Light module cold white 6,500 K: light strips arranged on the side walls of the interior, 10 strips for model 110, 14 for model 260/410/750, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY)	-		T7				-		
Light module cold white 6,500 K + warm white 2,700 K: LED light strips - 10 strips for model 110, 14 for model 260/410/750 - (5 resp. 7 alternating cold white light strips and 5 resp. 7 warm white light strips) on the side walls of the interior, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY)	-		T8				-		
Light module warm white 2,700 K: light strips arranged on the side walls of the interior, 10 strips for model 110, 14 for model 260/410/750, programme-controlled dimming from 0 to 100 % (in 1 % steps), ramp programming in combination with temperature (only with TwinDISPLAY)	-		T9				-		
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							-	
Entry port with 23 mm clear diameter, can be closed, standard position (F0 and F2 not for model size 260 with light module; F0 - F3 not for model size 110 with light module)	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 (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back (please state location)	F7					-			
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, standard position rear	-		D8						
4 - 20 mA current loop interface (-10 to +80 °C = 4 - 20 mA)	Temperature controller, actual value		V3						
Door with lock and key (safety lock)	One lock		B6				-		
	Two locks (one each door)		-				B62	-	
	Three locks (one each door)		-				B63		
Door hinged on the left	B8					-			
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)	H6								
Process-dependent programmable door lock (only for units with TwinDISPLAY)	One		D4				-		
	Two (one each door)		-				D42	-	
	Three (one each door)		-				D43		
Door-open-recognition (only for units with TwinDISPLAY)	One		V5				-		
	Two (one each door)		-				V52	-	
	Three (one each door)		-				V53		
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					-			
Accessories	30	55	110	260	410	750	1060	1400	2200
Stainless steel grid, electropolished	E28884	E20164	E20165	E28891		E20182	B41251	B38955	
Reinforced stainless steel grid, electropolished, max. loading 60 kg; size 750 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	-		

Accessories	30	55	110	260	410	750	1060	1400	2200
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	-	
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), with air slots	B29728	B29730	B29734	B29738	B42116	B29742		-	
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), without air slots	B29729	B29731	B29735	B29739	B42117	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	-				
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	-				
External measuring instrument with sensors for daylight and UV-light. Product information on demand (models IPPecoplus/ IPPplus)	B04713						-		
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand	B04714								

Accessories Software and Connectivity	30	55	110	260	410	750	1060	1400	2200
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								
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 AtmoCONTROL 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								

PERSONAL NOTES



A microscopic view of cells, with a large, detailed cell in the center showing internal structures. The background is a light blue gradient with other cells visible in the periphery.

Medical devices



UNIVERSAL OVENS Um



INCUBATORS Im



STERILISERS S



CO₂ INCUBATORS ICOmed



BLANKET WARMERS IFbw

UNIVERSAL OVENS Um

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

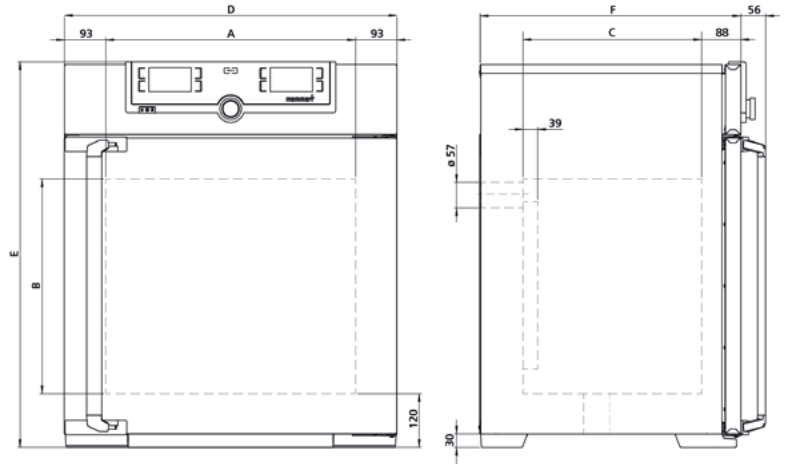
Standard units are safety-approved and bear the test marks:



- 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 (UNm/UNmplus) oder at least 10 (UFm/UFmplus) 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 m = Medical device plus = Model with TwinDISPLAY			UN30m	UN55m	UN75m	UN110m	UN160m	UN260m	UN450m	UN750m	-
			UN30mplus	UN55mplus	UN75mplus	UN110mplus	UN160mplus	UN260mplus	UN450mplus	UN750mplus	-
			UF30m	UF55m	UF75m	UF110m	UF160m	UF260m	UF450m	UF750m	UF1060m
			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		
Temperature restriction; Temperatures: +60, +70, +80, +95, +100, +120, +160, +180, +200 or +250 °C (Please indicate upon ordering)							A8		

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. Please consider max. loading of chamber	-			E29767		E29766	-		B32550
Perforated stainless steel shelf	B29727	B03916		B00325		B29725	B00328		-
Reinforced stainless steel shelf, max. loading 60 kg. Please consider max. loading of chamber	-								B32549
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution)	B02070	B02072		B02073		B29726	B02075		B32599
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution)	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
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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								
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 AtmoCONTROL 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								

INCUBATORS Im

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:

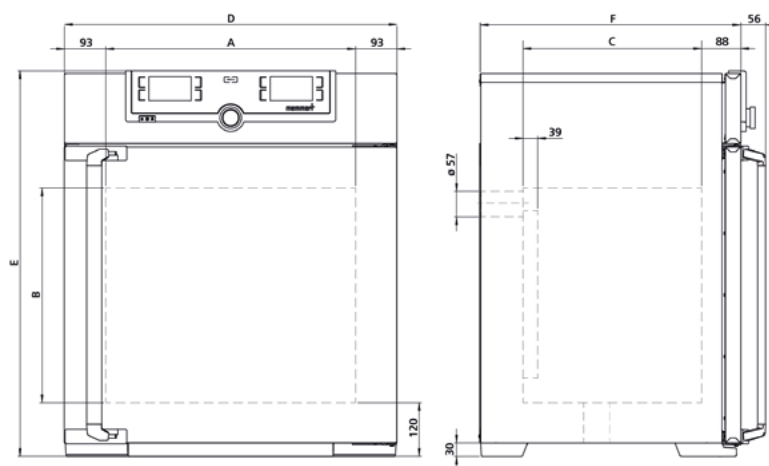


- Interior:** stainless steel, material 1.4301 (ASTM 304), with all-round deep-drawn ribs to integrate the large-area heating with ceramic-metal sheath
- Housing:** textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated SingleDISPLAY or TwinDISPLAY (TFT colour display) with touchscreen
- Door:** fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door, from size 450 two leaves
- Connection:** mains cable with plug (German type)
- Installation:** Sizes 30 to 260: 4 adjustable appliance feet, Sizes 450 and 750: on lockable castors

Interfaces:



USB: only TwinDISPLAY



Model sizes/Description			30	55	75	110	160	260	450	750	
Stainless steel interior	Volume	l	32	53	74	108	161	256	449	749	
	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		
	Max. number of grids/shelves	number	3	4	6	5	8	9	8	14	
	Max. loading per grid/shelf	kg	20							30	
	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 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		
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C	+37								
	Stainless steel grid, electropolished	number	1		2						
Temperature	Working temperature range	°C	at least 5 (INm/INmplus) at least 10 (IFm/IFmplus) above ambient temperature up to +80								
	Setting temperature range	°C	+20 to +80								
	Setting accuracy	°C	0.1								
Further data	Electrical load at 230 V, 50/60 Hz	W	1600	1000	1250	1400	1600	1700	1800	2000	
	Electrical load at 115 V, 50/60 Hz	W	800	900					1500	1800	
Packing data	Net weight	kg	48	57	66	76	96	110	161	217	
	Gross weight (packed in carton)	kg	64	76	85	101	122	143	227	288	
	Width	mm	660	730		830		930	1330		
	Height	mm	890	950	1130	1050	1300	1380	1440	1910	
	Depth	mm	650	670		800		930	1050		
Order No. Incubators I = Incubator N = Natural convection F = Forced air circulation m = Medical device plus = Model with TwinDISPLAY			IN30m	IN55m	IN75m	IN110m	IN160m	IN260m	IN450m	IN750m	
			IN30mplus	IN55mplus	IN75mplus	IN110mplus	IN160mplus	IN260mplus	IN450mplus	IN750mplus	
			IF30m	IF55m	IF75m	IF110m	IF160m	IF260m	IF450m	IF750m	
			IF30mplus	IF55mplus	IF75mplus	IF110mplus	IF160mplus	IF260mplus	IF450mplus	IF750mplus	

Options	30	55	75	110	160	260	450	750
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: +50, +55, +60, +65, +70 or +75 °C (Please indicate upon ordering)	A8							

Accessories	30	55	75	110	160	260	450	750
Stainless steel grid, electropolished	E28884	E20164		E20165		E28891	E20182	
Reinforced stainless steel grid, electropolished, max. loading 60 kg. Please consider max. loading of chamber	-			E29767		E29766	-	
Perforated stainless steel shelf	B29727	B03916		B00325		B29725	B00328	
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution)	B02070	B02072		B02073		B29726	B02075	
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution)	B04356	B04358		B04359		B29722	B04362	
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
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							
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 AtmoCONTROL 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							

STERILISERS S

according to DIN 12880:2007-05; EN 61010-1 (IEC 61010-1); EN 61010-2-010;
EN 61010-2-40

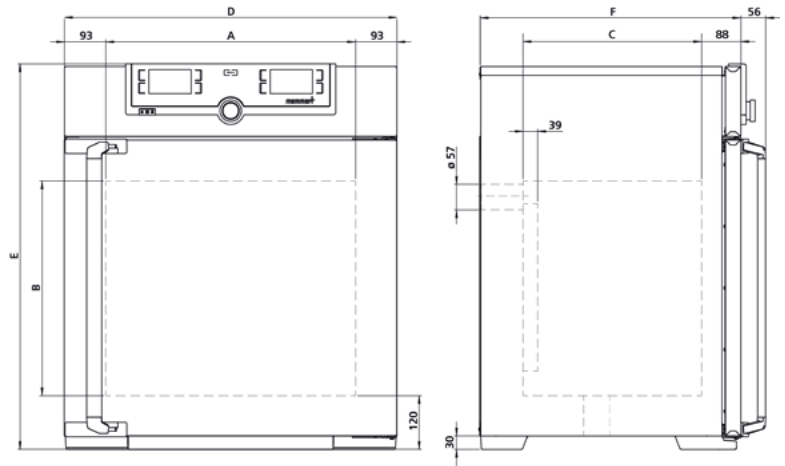
Standard units are safety-approved and bear the test marks:



- 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 and 750: on lockable castors
- Interfaces:**



USB: only TwinDISPLAY



Model sizes/Description			30	55	75	110	160	260	450	750
Stainless steel interior	Volume	l	32	53	74	108	161	256	449	749
	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	
	Max. number of grids/shelves	number	3	4	6	5	8	9	8	14
	Max. loading per grid/shelf	kg	20						30	
	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 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	
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 (SN/SNplus) 10 (SF/SFplus) above ambient temperature up to +250							
	Setting temperature range	°C	+20 to +250							
	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 3 x 208 V w/o neutral, 50/60 Hz	W	-						4800	5700
	Electrical load at 400 V and 3 x 230V w/o neutral, 50/60 Hz	W	-						5800	7000
Packing data	Net weight	kg	46	57	66	74	96	110	161	217
	Gross weight (packed in carton)	kg	62	76	85	99	122	143	227	288
	Width	mm	660	730		830		930	1330	
	Height	mm	890	950	1130	1050	1300	1380	1440	1910
	Depth	mm	650	670		800		930	1050	
Order No. Sterilisers S = Steriliser N = Natural convection F = Forced air circulation plus = Model with TwinDISPLAY			SN30	SN55	SN75	SN110	SN160	SN260	SN450	SN750
			SN30plus	SN55plus	SN75plus	SN110plus	SN160plus	SN260plus	SN450plus	SN750plus
			SF30	SF55	SF75	SF110	SF160	SF260	SF450	SF750
			SF30plus	SF55plus	SF75plus	SF110plus	SF160plus	SF260plus	SF450plus	SF750plus

Options	30	55	75	110	160	260	450	750
Voltage 115 V, 50/60 Hz	X2						-	
Extended overtemperature protection by additionally integrated Pt100 sensor for independent temperature monitoring for models with SingleDISPLAY	A6							
Door with lock and key (safety lock); standard with 450 and 750	B6						-	

Accessories	30	55	75	110	160	260	450	750
Stainless steel grid, electropolished	E28884	E20164		E20165		E28891	E20182	
Reinforced stainless steel grid, electropolished, max. loading 60 kg. Please consider max. loading of chamber	-			E29767		E29766	-	
Perforated stainless steel shelf	B29727	B03916		B00325		B29725	B00328	
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution)	B02070	B02072		B02073		B29726	B02075	
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution)	B04356	B04358		B04359		B29722	B04362	
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
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							
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 AtmoCONTROL 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							

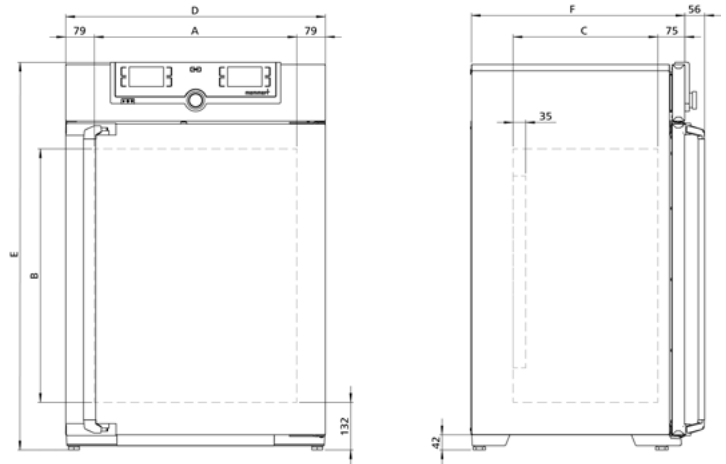
CO₂ INCUBATORS ICOMed

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), deepdrawn, seamlessly welded
- Housing: textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
- Door: fully insulated stainless steel door with 2-point locking (compression door lock) and heated inner glass door
- Connection: mains cable with plug (German type)
- Installation: 4 adjustable appliance feet
- Interfaces:



Model sizes/Description			50	105	150	240
Stainless steel interior	Volume	l	56	107	156	241
	Width	(A) mm	400	560		600
	Height	(B) mm	425	480	700	810
	Depth (less 35 mm for fan)	(C) mm	330	400		500
	Max. number of grids/shelves	number	5	6	10	12
	Max. loading per grid/shelf	kg	15			
	Max. loading of chamber	kg	75	90	120	140
Textured stainless steel exterior	Width	(D) mm	559	719		759
	Height	(E) mm	795	850	1070	1180
	Depth (without door handle, depth of handle +56 mm)	(F) mm	521	591		691
Standard equipment	Works calibration certificate (measuring point chamber centre) at +37 °C, 5 % CO ₂ for standard units		●			
	Works calibration certificate at +37 °C, 5 % CO ₂ and 90 % rh (requires option K7); standard equipment for units with active humidity control		●			
	Works calibration certificate at +37 °C, 5 % CO ₂ , 90 % rh and 10 % O ₂ (requires option K7 and option T6); standard equipment for units with O ₂ control		●			
	Perforated stainless steel shelf	number	1	2		
	Stainless steel water dish (not applicable with option K7)		●			
	CO ₂ connection set: hose with coupling and clamp		●			
	Standard sterilisation programme (without removing the sensors), humidity and CO ₂ sensor sterilised inside the CO ₂ incubator		60 minutes at 180 °C			
	Membrane filter (in order to remove impurities and pollutants, all incoming gases pass through a membrane filter before they reach the chamber)		●			
Temperature	Working temperature range	°C	at least 5 above ambient temperature up to +50			
	Setting temperature range	°C	+18 to +50			
	Setting accuracy	°C	0.1			
	Temperature fluctuations with time at +37 °C	K	± 0,1			
	Temperature variation in chamber at +37 °C	K	± 0,3			
Humidity	Setting range active humidity control (with option K7)	% rh	40 to 97 and rh-off			
	Setting accuracy	% rh	0.5			
CO ₂ / O ₂	Variation in time CO ₂	% CO ₂	± 0,2			
	Setting accuracy CO ₂	% CO ₂	0,1			
	Setting range CO ₂	% CO ₂	0 to 20			
	Setting accuracy O ₂	% O ₂	0.1			
	Setting range O ₂	% O ₂	1 to 20			
Further data	Electrical load at 230 V, 50/60 Hz	W	1100	1300	1500	1650
	Electrical load at 115 V, 50/60 Hz	W	1100	1300	1500	1650

Model sizes/Description			50	105	150	240
Packing data	Net weight	kg	55	75	90	110
	Gross weight (packed in carton)	kg	74	100	116	145
	Width	mm	730	800		840
	Height	mm	950	1030	1250	1360
	Depth	mm	640	800		900
Order No. CO ₂ Incubators			ICO50med	ICO105med	ICO150med	ICO240med

Options			50	105	150	240
Voltage 115 V, 50/60 Hz					X2	
Electropolished interior					T2	
Active microprocessor control for humidifying and dehumidifying (40 - 97 % rh), incl. digital indication and auto-diagnostic system ensures even more rapid reaching of set humidity and very short recovery times while avoiding condensate formation. Humidity supply with water (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7; from an external tank) by a self-priming pump; integral bacteria block by generating hot steam, dehumidifying via sterile filter (combination of options K7 and F7 for ICO50 not possible)					K7	
Control of oxygen concentration by N ₂ inlet; adjustment range 1 % up to 20 % O ₂ ; setting accuracy 0.1 % (requires option K7). Incl. N ₂ connection set: hose with coupling and clamp					T6	
Capacitive humidity sensor for measuring and displaying the relative humidity					K6	
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back, centre right; not available for ICO50 with active humidity control (option K7) or humidity display (option K6)					F7	
Heated inner door with partitioned glass doors; size105/150/240 has 2/3/4 partitioned glass doors			-		K4	

Accessories			50	105	150	240
Perforated stainless steel shelf			E35160	E37418		E35158
Central water supply, with filter cartridges for connection to the domestic water supply (requires option K7). Product information on demand				ZWVR6		
Central water supply, without filter cartridges for connection to the domestic water supply (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7, requires option K7). Product information on demand				ZWVR7		
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size (requires subframe B33509 or B43598)				-		B48129
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size			-		B42114	-
Stacking set (4 pcs) for stacking of appliances of same size			B29744		-	
Subframe, on castors (height 120 mm; stainless steel, material 1.4301)				-		B43598
Subframe (622 mm high) adjustable in height (sizes 150/240: should not be used for 2 stacked units)			B33504	B33505		B33506
Subframe (130 mm high); sizes 150/240: only in combination with the corresponding stacking sets for stacked appliances			B33507	B33508		B33509
Water dish				B38737		
3 HEPA14-filters (B49800) for chamber according to EN 1822, packed in sterile condition, incl. fixing unit				B39698		
HEPA14-filter for chamber according to EN 1822, packed in sterile condition, incl. fixing unit				B49800		
CO ₂ pressure reducing valve to DIN 8546, incl. gas cylinder monitor				E02087		
N ₂ pressure reducing valve to DIN EN ISO 2503, incl. gas cylinder monitor (requires option T6)				E06162		
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand				B04714		

Accessories Software and Connectivity			50	105	150	240
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). 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.				FDAQ2		
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				B33170		
Ethernet connection cable 5 m for computer interface				E06189		
USB-Ethernet adapter				E06192		

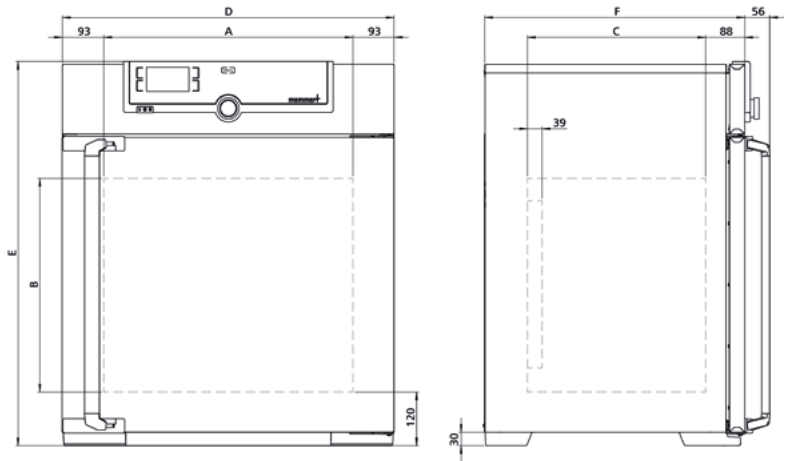
BLANKET WARMERS IFbw

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:



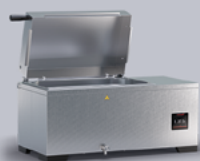
- Interior: stainless steel, material 1.4301 (ASTM 304), with all-round deep-drawn ribs to integrate the large-area heating with ceramic-metal sheath
- Housing: textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated SingleDISPLAY (TFT colour display) with touchscreen
- Door: fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door, from size 450 two leaves
- Connection: mains cable with plug (German type)
- Installation: Sizes 110 and 260: 4 adjustable appliance feet, Sizes 450 and 750: on lockable castors
- Interfaces:



Model sizes/Description				110	260	450	750
Stainless steel interior	Volume	l		108	256	449	749
	Width	(A)	mm	560	640	1040	
	Height	(B)	mm	480	800	720	1200
	Depth (less 39 mm for fan)	(C)	mm	400	500	600	
	Max. number of grids/shelves	number		5	9	8	14
	Max. loading per grid/shelf	kg		20		30	
	Max. loading of chamber	kg		175	300		
Textured stainless steel exterior	Width	(D)	mm	745	824	1224	
	Height (sizes 450, 750 with castors)	(E)	mm	864	1183	1247	1720
	Depth (without door handle, depth of handle +56 mm)	(F)	mm	584	684	784	
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C		+37			
	Stainless steel grid, electropolished	number		2			
	Door-open-recognition			●			
Temperature	Working temperature range	°C		at least 10 above ambient temperature up to + 80			
	Setting temperature range	°C		+20 to +80			
	Setting accuracy	°C		0.1			
Further data	Electrical load at 230 V, 50/60 Hz	W		1400	1700	1800	2000
	Electrical load at 115 V, 50/60 Hz	W		900		1500	1800
Packing data	Net weight	kg		74	110	161	217
	Gross weight (packed in carton)	kg		99	161	227	288
	Width	mm		830	930	1330	
	Height	mm		1050	1380	1440	1910
	Depth	mm		800	930	1050	
Order No. Blanket warmers I = Incubator F = Forced air circulation bw = Blanket warmer				IF110bw	IF260bw	IF450bw	IF750bw

The background of the slide features a close-up photograph of water droplets on a green leaf. The droplets are of various sizes and are in sharp focus in the foreground, while the background is softly blurred. A dark grey horizontal band with a diagonal cut on the right side is positioned across the middle of the image.

Water baths



WATER BATHS WTB

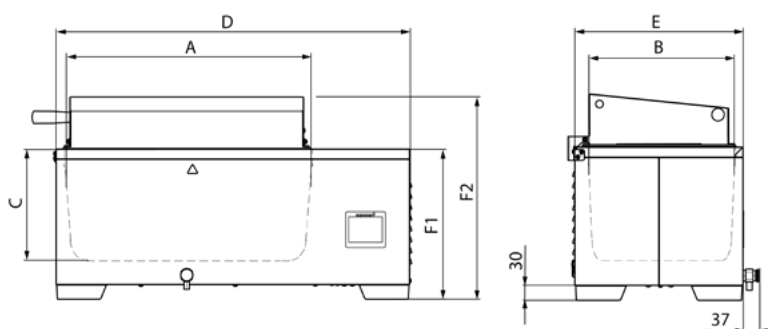
WATER BATHS WTB

according to DIN 12876-3; EN 61010-1 (IEC 61010-1); EN 61010-2-010

Standard units are safety-approved and bear the test marks:



- Interior: deep-drawn stainless steel tray (stainless steel W.St. 1-4301), heating mounted from the outside, without corners and edges for easy cleaning incl. central drain (no disturbing installations)
- Housing: textured stainless steel 1.4301 (ASTM 304), intuitive 3.5" colour graphic display with touch screen
- Connection: mains cable with plug (German type)
- Installation: 4 adjustable appliance feet



Model sizes/Description				6	11	15	24	35	50
Stainless steel interior	Volume	l		7.5	10	17.1	23.1	37.5	51
	Length	(A)	mm	277	267	482	472	602	592
	Width	(B)	mm	217	207	277	267	482	472
	Height	(C)	mm	150	200	150	200	150	200
Textured stainless steel exterior	Length	(D)	mm	479		749		868	
	Width	(E)	mm	289		349		554	
	Height (with flat cover)	(F1)	mm	272	322	272	322	272	322
	Height (with gable cover)	(F2)	mm	375	425	375	425	375	425
Standard equipment	Stainless steel gable cover			●					
Temperature	Working temperature range	°C	at least 5 above ambient temperature up to +100 (with cover, depending on ambient pressure)						
	Setting temperature range	°C	+10 to +100						
	Setting accuracy	°C	0.1						
Further data	Electrical load at 230 V, 50/60 Hz	W	1000			1420		2800	
	Electrical load at 115 V, 50/60 Hz	W	1000			1420		1800	
Packing data	Net weight	kg	11	12	18	20	30	33	
	Gross weight (packed in carton)	kg	13	14	21	23	34	37	
	Length	mm	579			849		968	
	Width	mm	389			449		654	
	Height	mm	475	525	475	525	475	525	
Order No. Water baths				WTB6	WTB11	WTB15	WTB24	WTB35	WTB50

Options	6	11	15	24	35	50
Voltage 115 V, 50/60 Hz	X2					
Accessories	6	11	15	24	35	50
Stainless steel gable cover	B50775		B50763		B50764	
Flat stainless steel cover with openings and concentric ring sets; 3 openings, Ø 87 mm	B48804			-		
Flat stainless steel cover with openings and concentric ring sets; 6 openings, Ø 107 mm	-		B48805		-	
Flat stainless steel cover with openings and concentric ring sets; 8 openings, Ø 107 mm		-			B48806	
Special flat stainless steel cover with openings and concentric ring sets; 3 openings, Ø 87 mm (only in combination with CPM650)	B48807			-		
Special flat stainless steel cover with openings and concentric ring sets; 6 openings, Ø 107 mm (only in combination with CPM650)	-		B48808		-	
Special flat stainless steel cover with openings and concentric ring sets; 8 openings, Ø 107 mm (only in combination with CPM650)		-			B48809	
Perforated bottom shelf, reversible for 2 heights (30 or 60mm), stainless steel	B50767		B50769		B50771	
Pump device for continuous circulation of the tempering medium. Voltage 230 V, 50/60 Hz. (requires installation and connection set B48813)			CPM650			
Installation and connection set for pump device CPM650 (incl. mounting bars for all different bath sizes)			B48813			
Shaking device for waterbaths incl. support frame, shaking frequency 35 - 150 strokes per minute (horizontal back/forth movement), requires special gable cover. Voltage 230 V, 50/60 Hz. Please do not forget to order the support basket.	-		SV1524		SV3550	
Shaking device for waterbaths incl. support frame, shaking frequency 35 - 150 strokes per minute (horizontal back/forth movement), requires special gable cover. Voltage 115 V, 60 Hz. Please do not forget to order the support basket.	-		SV1524X2		SV3550X2	
Support basket with perforated mounting shelf (stainless steel) with grid perforations to take clips for conical flasks (use of test tube racks not possible)	-		B48814		B48815	
Clip for 100 ml flask, max. flasks see sketch on demand	-			B02692		
Clip for 200 ml flask, max. flasks see sketch on demand	-			B02693		
Clip for 300 ml flask, max. flasks see sketch on demand	-			B02694		
Clip for 500 ml flask, max. flasks see sketch on demand	-			B02695		
Rack for shaking device for 171 test tubes Ø 14.5 mm	-		B48816		-	
Rack for shaking device for 119 test tubes Ø 18 mm	-		B48818		-	
Rack for shaking device for 45 test tubes Ø 32 mm	-		B48820		-	
Rack for shaking device for 475 test tubes Ø 14.5 mm		-			B48817	
Rack for shaking device for 357 test tubes Ø 18 mm		-			B48819	
Rack for shaking device for 117 test tubes Ø 32 mm		-			B48821	
Test tube racks, holes 2-row racks, 34 holes, Ø 10 mm each (bath capacity 3 racks)	B48822			-		
Test tube racks, holes 2-row racks, 30 holes, Ø 12 mm each (bath capacity 3 racks)	B48824			-		
Test tube racks, holes 2-row racks, 26 holes, Ø 14.5 mm each (bath capacity 2 racks)	B48826			-		
Test tube racks, holes 2-row racks, 22 holes, Ø 18 mm each (bath capacity 2 racks)	B48828			-		
Test tube racks, holes 2-row racks, 18 holes, Ø 21 mm each (bath capacity 2 racks)	B48830			-		
Test tube racks, holes 2-row racks, 14 holes, Ø 32 mm each (bath capacity 1 rack)	B48832			-		
Test tube racks, holes 3-row racks, 33 holes, Ø 18 mm each (bath capacity 1 rack)	B48834			-		
Test tube racks, holes 4-row racks, 44 holes, Ø 18 mm each (bath capacity 1 rack)	B48836			-		
Test tube racks, holes 2-row racks, 58 holes, Ø 10 mm each (bath capacity 4 racks)	-		B48823		-	
Test tube racks, holes 2-row racks, 58 holes, Ø 12 mm each (bath capacity 4 racks)	-		B48825		-	
Test tube racks, holes 2-row racks, 46 holes, Ø 14.5 mm each (bath capacity 3 racks)	-		B48827		-	
Test tube racks, holes 2-row racks, 38 holes, Ø 18 mm each (bath capacity 3 racks)	-		B48829		-	
Test tube racks, holes 2-row racks, 34 holes, Ø 21 mm each (bath capacity 3 racks)	-		B48831		-	
Test tube racks, holes 2-row racks, 22 holes, Ø 32 mm each (bath capacity 2 racks)	-		B48833		-	
Test tube racks, holes 3-row racks, 57 holes, Ø 18 mm each (bath capacity 2 racks)	-		B48835		-	
Test tube racks, holes 4-row racks, 76 holes, Ø 18 mm each (bath capacity 1 rack)	-		B48837		-	
Test tube racks, holes 2-row racks, 74 holes, Ø 10 mm each (bath capacity 9 racks)		-			B50656	
Test tube racks, holes 2-row racks, 66 holes, Ø 12 mm each (bath capacity 9 racks)		-			B50657	
Test tube racks, holes 2-row racks, 58 holes, Ø 14.5 mm each (bath capacity 8 racks)		-			B50658	
Test tube racks, holes 2-row racks, 50 holes, Ø 18 mm each (bath capacity 6 racks)		-			B50659	
Test tube racks, holes 2-row racks, 44 holes, Ø 21 mm each (bath capacity 6 racks)		-			B50660	
Test tube racks, holes 2-row racks, 30 holes, Ø 32 mm each (bath capacity 4 racks)		-			B50661	
Test tube racks, holes 3-row racks, 75 holes, Ø 18 mm each (bath capacity 4 racks)		-			B50662	
Test tube racks, holes 4-row racks, 100 holes, Ø 18 mm each (bath capacity 3 racks)		-			B50663	



Services



CLIMATE CHAMBERS



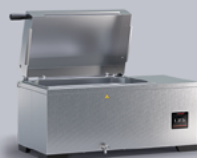
HEATING AND DRYING OVENS



INCUBATORS



MEDICAL DEVICES



WATER BATHS



GENERAL INFORMATION

CLIMATE CHAMBERS

Qualifications on site	HP Peco	HCP	ICH	CTC / TTC
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		-		DLQ100
IQ/OQ qualification additional temperature value - freely selectable		-		DLQ100A
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		-		DLQ100R
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature and humidity value - freely selectable			DLQ101	
IQ/OQ qualification additional temperature and humidity value - freely selectable			DLQ101A	
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature and humidity value - freely selectable			DLQ101R	
PQ qualification; incl. documentation			DLQ200	
Qualifications at Memmert factory	HP Peco	HCP	ICH	CTC / TTC
IQ/OQ/PQ checklist			D00124	
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		-		D00104
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature and humidity value - freely selectable		D00136		D00144
IQ/OQ document additional temperature and humidity value - freely selectable			D49122	
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 and measurement of light intensity temperature and humidity value - freely selectable	D00137	-	D00137	-
IQ/OQ document incl. measurement of light intensity additional temperature and humidity value - freely selectable	D49125	-	D49125	-
Calibrations on site	HP Peco	HCP	ICH	CTC / TTC
Calibration temperature value - freely selectable		-		S00205
Calibration additional temperature value - freely selectable		-		S00215
Calibration temperature and humidity value - freely selectable			S00207	
Calibration additional temperature and humidity value - freely selectable			S00216	
DAkKS calibration according to method C (DKD-R 5-7) temperature value - freely selectable		-		S00360
DAkKS calibration according to method A (DKD-R 5-7) temperature value - freely selectable		-		S00504
DAkKS calibration according to method C (DKD-R 5-7) temperature and humidity value - freely selectable			S00365	
DAkKS calibration according to method A (DKD-R 5-7) temperature and humidity value - freely selectable			S00505	
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable		-		S00513
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature and humidity value - freely selectable			S00514	
Calibrations at Memmert factory	HP Peco	HCP	ICH	CTC / TTC
Calibration temperature value - freely selectable		-		D00109
Calibration temperature and humidity value - freely selectable			D00105	
DAkKS calibration according to method C (DKD-R 5-7) temperature value - freely selectable		-		E39696
DAkKS calibration according to method A (DKD-R 5-7) temperature value - freely selectable		-		E57404
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable		-		E39697
DAkKS calibration according to method C (DKD-R 5-7) temperature and humidity value - freely selectable			E48847	
DAkKS calibration according to method A (DKD-R 5-7) temperature and humidity value - freely selectable			E57406	
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature and humidity value - freely selectable			E48848	

Services	HPPeco	HCP	ICH	CTC / TTC
Guarantee extension by 1 year HPPeco: size 110	GA2Q5	-		
Guarantee extension by 1 year HPPeco: sizes 260 - 750 ; HCP: all sizes	GA3Q5		-	
Guarantee extension by 1 year HPPeco: sizes 1060 - 2200	GA4Q5	-		
Short on-site training course on handling and use Germany	S49128			
Maintenance on site	S00314	S00313	S00322	-
Maintenance on site (maintenance contract)	S00314J	S00313J	S00322J	-
Maintenance on site Basic	-			S00400
Maintenance on site Medium	-			S00401
Maintenance on site Premium	-			S00402

HEATING AND DRYING OVENS

Qualifications on site	U	UF TS	UNpa	VO
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		DLQ100		-
IQ/OQ qualification additional temperature value - freely selectable		DLQ100A		-
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		DLQ100R		-
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 (for one thermoshelf) temperature and pressure value - freely selectable		-		DLQ106
IQ/OQ qualification (for one thermoshelf) additional temperature and pressure value (per thermoshelf) - freely selectable		-		DLQ106A
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 (for one thermoshelf) temperature and pressure value - freely selectable		-		DLQ106R
IQ/OQ qualification; extension by one thermoshelf additional temperature and pressure value (for one thermoshelf) - freely selectable		-		DLQ106T
PQ qualification; incl. documentation		DLQ200		
Qualifications at Memmert factory	U	UF TS	UNpa	VO
IQ/OQ/PQ checklist		D00124		
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 (only for size 30) temperature value - freely selectable	D00125	-	D00125	-
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		D00127		-
IQ/OQ document additional temperature value - freely selectable		D49121		-
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature and pressure value - freely selectable		-		D00117
IQ/OQ document additional temperature and pressure value - freely selectable		-		D49126
Calibrations on site	U	UF TS	UNpa	VO
Calibration temperature value - freely selectable		S00205		-
Calibration additional temperature value - freely selectable		S00215		-
Calibration temperature and pressure value - freely selectable		-		S00212
Calibration additional temperature and pressure value - freely selectable		-		S00218
DAkkS calibration according to method C (DKD-R 5-7) temperature value - freely selectable		S00360		-
DAkkS calibration according to method A (DKD-R 5-7) temperature value - freely selectable		S00504		-
DAkkS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable		S00513		-
Calibrations at Memmert factory	U	UF TS	UNpa	VO
Calibration temperature value - freely selectable		D00109		-
Calibration three temperature values (+100 °C, +160 °C, +220 °C)		D00128		-
Calibration three temperature values (+37 °C, +52 °C, +70 °C)		-	D00126	-
Calibration temperature and pressure value - freely selectable		-		D00116
Calibration three temperature values (at +50 °C, +100 °C, +160 °C at 20 mbar)		-		D00115
DAkkS calibration according to method C (DKD-R 5-7) temperature value - freely selectable		E39696		-
DAkkS calibration according to method A (DKD-R 5-7) temperature value - freely selectable		E57404		-
DAkkS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable		E39697		-

Services	U	UF TS	UNpa	VO
Guarantee extension by 1 year U: sizes 30 - 160; UF TS: size 160 ; UNpa: all sizes	GA1Q5			-
Guarantee extension by 1 year U: sizes 260 - 1060; UF TS: sizes 260 - 750 ; VO: all sizes	GA2Q5		-	GA2Q5
Short on-site training course on handling and use Germany	S49128			
Maintenance on site	S00311			S00320
Maintenance on site (maintenance contract)	S00311J			S00320J

INCUBATORS

Qualifications on site	I	ICO	ICP	IPPeco
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable	DLQ100	-	DLQ100	
IQ/OQ qualification additional temperature value - freely selectable	DLQ100A	-	DLQ100A	
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable	DLQ100R	-	DLQ100R	
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity and CO ₂ value - freely selectable	-	DLQ103	-	
IQ/OQ qualification additional temperature, humidity and CO ₂ value - freely selectable	-	DLQ103A	-	
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity and CO ₂ value - freely selectable	-	DLQ103R	-	
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity, CO ₂ and O ₂ value - freely selectable	-	DLQ105	-	
IQ/OQ qualification additional temperature, humidity, CO ₂ and O ₂ value - freely selectable	-	DLQ105A	-	
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity, CO ₂ and O ₂ value - freely selectable	-	DLQ105R	-	
PQ qualification; incl. documentation	DLQ200			
Qualifications at Memmert factory	I	ICO	ICP	IPPeco
IQ/OQ/PQ checklist	D00124			
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 (only for size 30) temperature value - freely selectable	D00125	-		D00125
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable	D00127	-	D00127	
IQ/OQ document additional temperature value - freely selectable	D49121	-	D49121	
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity and CO ₂ value - freely selectable	-	D38897	-	
IQ/OQ document additional temperature, humidity and CO ₂ value - freely selectable	-	D49123	-	
Calibrations on site	I	ICO	ICP	IPPeco
Calibration temperature value - freely selectable	S00205	-	S00205	
Calibration additional temperature value - freely selectable	S00215	-	S00215	
Calibration temperature, humidity and CO ₂ value - freely selectable	-	S00211	-	
Calibration additional temperature, humidity and CO ₂ value - freely selectable	-	S00217	-	
DAkKS calibration according to method C (DKD-R 5-7) temperature value - freely selectable	S00360	-	S00360	
DAkKS calibration according to method A (DKD-R 5-7) temperature value - freely selectable	S00504	-	S00504	
DAkKS calibration according to method C (DKD-R 5-7) temperature and humidity value - freely selectable	-	S00365	-	
DAkKS calibration according to method A (DKD-R 5-7) temperature and humidity value - freely selectable	-	S00505	-	
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature and humidity value - freely selectable	-	S00514	-	
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable	S00513	-	S00513	
Calibrations at Memmert factory	I	ICO	ICP	IPPeco
Calibration temperature value - freely selectable	D00109	-	D00109	
Calibration three temperature values (+37 °C, +52 °C, +70 °C)	D00126	-		
Calibration three temperature values (0 °C, +37 °C, +60 °C)	-		D00130	-
Calibration three temperature values (+5 °C, +37 °C, +60 °C)	-			D00129
Calibration temperature, humidity and CO ₂ value - freely selectable	-	D00131	-	

Calibrations at Memmert factory	I	ICO	ICP	IPPeco
Calibration temperature, humidity, CO ₂ and O ₂ value - freely selectable	-	D00143	-	
Calibration three CO ₂ values (5% CO ₂ , 7% CO ₂ , 10% CO ₂ at +37 °C)	-	D00106	-	
DAkKS calibration according to method C (DKD-R 5-7) temperature value - freely selectable	E39696	-	E39696	
DAkKS calibration according to method A (DKD-R 5-7) temperature value - freely selectable	E57404	-	E57404	
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable	E39697	-	E39697	
DAkKS calibration according to method C (DKD-R 5-7) temperature and humidity value - freely selectable	-	E48847	-	
DAkKS calibration according to method A (DKD-R 5-7) temperature and humidity value - freely selectable	-	E57406	-	
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature and humidity value - freely selectable	-	E48848	-	

Services	I	ICO	ICP	IPPeco
Guarantee extension by 1 year I: sizes 30 - 160; IPPeco: sizes 30 - 110	GA1Q5	-		GA1Q5
Guarantee extension by 1 year I: sizes 260 - 750; IPPeco: sizes 260 - 750	GA2Q5	-		GA2Q5
Guarantee extension by 1 year ICO: all sizes	-	GA3Q5	-	
Guarantee extension by 1 year IPPeco: sizes 1060 - 2200		-		GA4Q5
Short on-site training course on handling and use Germany		S49128		
Maintenance on site	S00311	-	S00315	S00317
Maintenance on site (maintenance contract)	S00311J	-	S00315J	S00317J
Maintenance on site; for appliances with passive humidity control	-	S00323	-	
Maintenance on site (maintenance contract); for appliances with passive humidity control	-	S00323J	-	
Maintenance on site; for appliances with active humidity control (option K7)	-	S00312	-	
Maintenance on site (maintenance contract); for appliances with active humidity control (option K7)	-	S00312J	-	

MEDICAL DEVICES

Qualifications on site	Um	Im	S	IComed	IFbw
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		DLQ100		-	DLQ100
IQ/OQ qualification additional temperature value - freely selectable		DLQ100A		-	DLQ100A
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		DLQ100R		-	DLQ100R
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity and CO ₂ value - freely selectable		-		DLQ103	-
IQ/OQ qualification additional temperature, humidity and CO ₂ value - freely selectable		-		DLQ103A	-
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity and CO ₂ value - freely selectable		-		DLQ103R	-
IQ/OQ qualification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity, CO ₂ and O ₂ value - freely selectable		-		DLQ105	-
IQ/OQ qualification additional temperature, humidity, CO ₂ and O ₂ value - freely selectable		-		DLQ105A	-
OQ requalification incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity, CO ₂ and O ₂ value - freely selectable		-		DLQ105R	-
PQ qualification; incl. documentation		DLQ200			
Qualifications at Memmert factory	Um	Im	S	IComed	IFbw
IQ/OQ/PQ checklist		D00124			
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 (only for size 30) temperature value - freely selectable		D00125		-	
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable		D00127		-	D00127
IQ/OQ document additional temperature value - freely selectable		D49121		-	D49121
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature, humidity and CO ₂ value - freely selectable		-		D38897	-
IQ/OQ document additional temperature, humidity and CO ₂ value - freely selectable		-		D49123	-
Calibrations on site	Um	Im	S	IComed	IFbw
Calibration temperature value - freely selectable		S00205		-	S00205
Calibration additional temperature value - freely selectable		S00215		-	S00215
Calibration temperature, humidity and CO ₂ value - freely selectable		-		S00211	-
Calibration additional temperature, humidity and CO ₂ value - freely selectable		-		S00217	-
DAkKS calibration according to method C (DKD-R 5-7) temperature value - freely selectable		S00360		-	S00360
DAkKS calibration according to method A (DKD-R 5-7) temperature value - freely selectable		S00504		-	S00504
DAkKS calibration according to method C (DKD-R 5-7) temperature and humidity value - freely selectable		-		S00365	-
DAkKS calibration according to method A (DKD-R 5-7) temperature and humidity value - freely selectable		-		S00505	-
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature and humidity value - freely selectable		-		S00514	-
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable		S00513		-	S00513
Calibrations at Memmert factory	Um	Im	S	IComed	IFbw
Calibration temperature value - freely selectable		D00109		-	D00109
Calibration temperature, humidity and CO ₂ value - freely selectable		-		D00131	-
Calibration temperature, humidity, CO ₂ and O ₂ value - freely selectable		-		D00143	-
Calibration three CO ₂ values (5% CO ₂ , 7% CO ₂ , 10% CO ₂ at +37 °C)		-		D00106	-
DAkKS calibration according to method C (DKD-R 5-7) temperature value - freely selectable		E39696		-	E39696

Calibrations at Memmert factory	Um	Im	S	IComed	IFbw
DAkKS calibration according to method A (DKD-R 5-7) temperature value - freely selectable		E57404		-	E57404
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature value - freely selectable		E39697		-	E39697
DAkKS calibration according to method C (DKD-R 5-7) temperature and humidity value - freely selectable		-		E48847	-
DAkKS calibration according to method A (DKD-R 5-7) temperature and humidity value - freely selectable		-		E57406	-
DAkKS calibration according to method C/A (DKD-R 5-7) additional temperature and humidity value - freely selectable		-		E48848	-

Services	Um	Im	S	IComed	IFbw
Guarantee extension by 1 year Um, Im, S: sizes 30 - 160; IFbw: size 110		GA1Q5		-	GA1Q5
Guarantee extension by 1 year Um: sizes 260 - 1060 ; Im, S: sizes 260 - 750; IFbw: sizes 260 - 750		GA2Q5		-	GA2Q5
Guarantee extension by 1 year ICO: all sizes		-		GA3Q5	-
Short on-site training course on handling and use Germany		S49128			
Maintenance on site		S00311		-	S00311
Maintenance on site (maintenance contract)		S00311J		-	S00311J
Maintenance on site; for appliances with passive humidity control		-		S00323	-
Maintenance on site (maintenance contract); for appliances with passive humidity control		-		S00323J	-
Maintenance on site; for appliances with active humidity control (option K7)		-		S00312	-
Maintenance on site (maintenance contract); for appliances with active humidity control (option K7)		-		S00312J	-

WATER BATHS

Qualifications at Memmert factory	WTB
IQ/OQ document incl. empty chamber distribution measurement according to DIN 12880:2007-05 temperature value - freely selectable	D00125
IQ/OQ document additional temperature value - freely selectable	D49121
Calibrations on site	WTB
Calibration temperature value - freely selectable	S00205
Calibration additional temperature value - freely selectable	S00215
Calibrations at Memmert factory	WTB
Calibration temperature value - freely selectable	D00109
Calibration temperature value (+37 °C)	D00123
Services	WTB
Short on-site training course on handling and use Germany	S49128
Maintenance on site	S00321
Maintenance on site (maintenance contract)	S00321J

GENERAL INFORMATION

Allowances and Cancellations (Germany, Austria)	
Postponement of qualification after award of contract; up to 14 days before scheduled start date	S00508
Postponement of qualification after award of contract; up to 7 days before scheduled start date	S00509
Cancellation of qualification after award of contract	S00510
Travel time hourly rate of technician	S00110
Travel time hourly rate of refrigeration technician	S00111
Repair work hourly rate of technician	S00100
Repair work hourly rate of refrigeration technician	S00102
Repair work Carrying out the DGUV V3 safety test	S00507
Daily allowance for providing tested measuring equipment for qualification	S00251
Daily allowance for providing tested measuring equipment for calibration	S00506
Travel costs per km	S00270
Allowance per overnight stay	S00201
Allowance for service vehicle set-up costs	S00511

Allowances and Cancellations (Switzerland)	
Postponement of qualification after award of contract; up to 14 days before scheduled start date	S00508
Postponement of qualification after award of contract; up to 7 days before scheduled start date	S00509
Cancellation of qualification after award of contract	S00510
Travel time hourly rate of technician	S00117
Travel time hourly rate of refrigeration technician	S00503
Repair work hourly rate of technician	S00103
Repair work hourly rate of refrigeration technician	S00502
Repair work Carrying out the DGUV V3 safety test	S00507
Daily allowance for providing tested measuring equipment for qualification	S00251
Daily allowance for providing tested measuring equipment for calibration	S00506
Travel costs per km	S00270
Allowance per overnight stay	S00199
Allowance for service vehicle set-up costs	S00511

What else you should know

INFORMATION ABOUT ALL APPLIANCES.



TECHNICAL INFORMATION

SingleDISPLAY / TwinDISPLAY

SOFTWARE AtmoCONTROL

DECISION AID FOR PRODUCTS
WITH HUMIDITY CONTROL

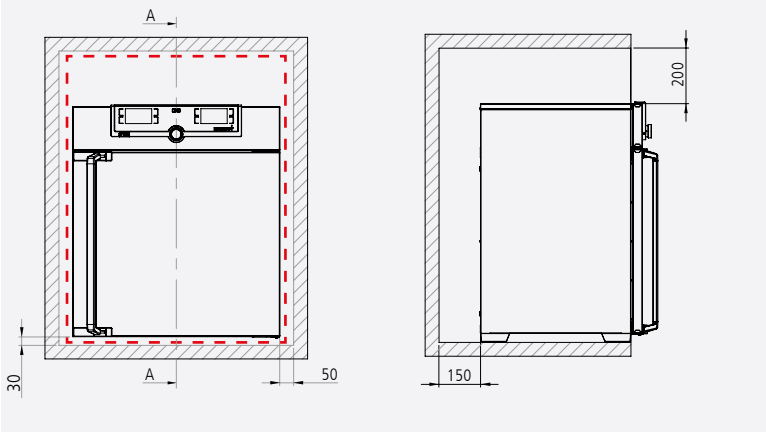
INTENDED USE MEDICAL DEVICES

CUSTOMER-SPECIFIC SOLUTIONS

24 HOURS AT YOUR SERVICE

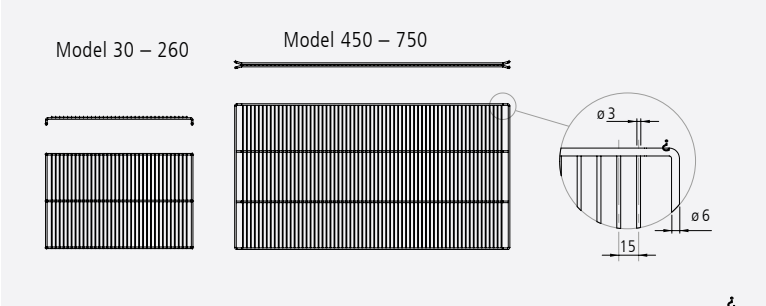
TECHNICAL INFORMATION

Flush-fit unit for models 30 – 1060

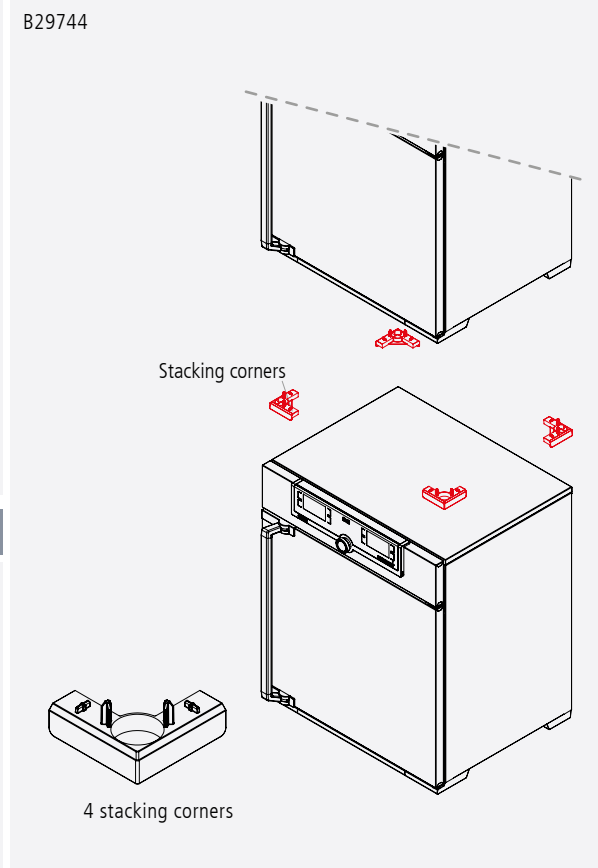


The national fire safety regulations for the immediate surroundings have to be observed (F90 in Germany; exact dimensions on request).

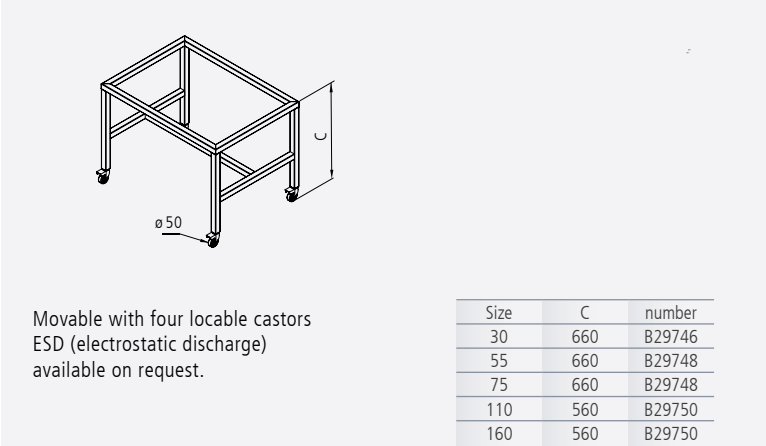
Stainless steel grid (except model size 1060 – 2200)



Stacking version for models 30 – 110



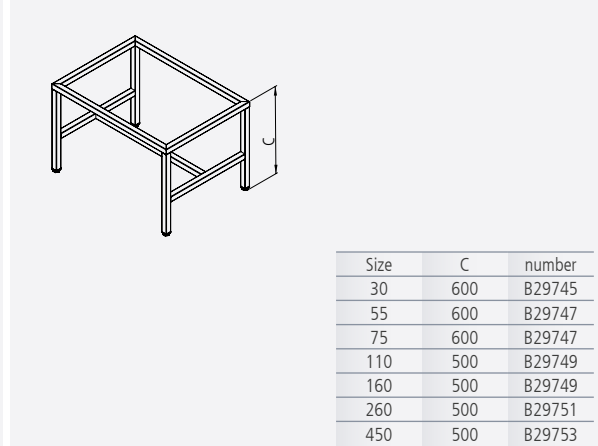
Subframe with castors for models 30 – 160 (except UF TS)



Movable with four locable castors
ESD (electrostatic discharge)
available on request.

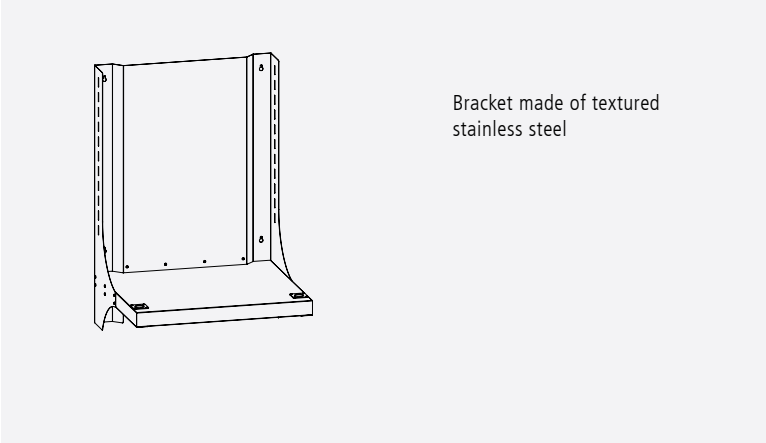
Size	C	number
30	660	B29746
55	660	B29748
75	660	B29748
110	560	B29750
160	560	B29750

Subframe with height adjustment for models 30 – 450 (except UF TS)

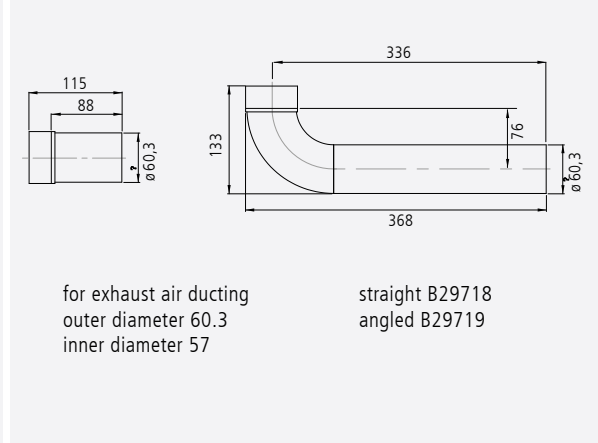


Size	C	number
30	600	B29745
55	600	B29747
75	600	B29747
110	500	B29749
160	500	B29749
260	500	B29751
450	500	B29753

Wall bracket for models 30 – 160 (except UF TS)

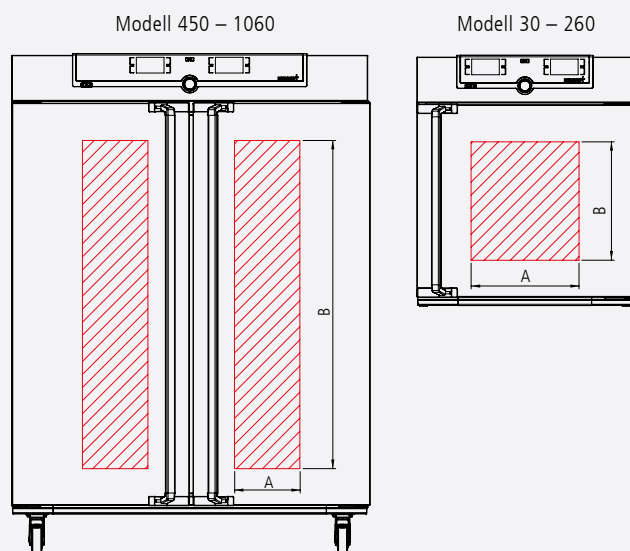


Plug-in tube extension (except UF TS)



TECHNICAL INFORMATION

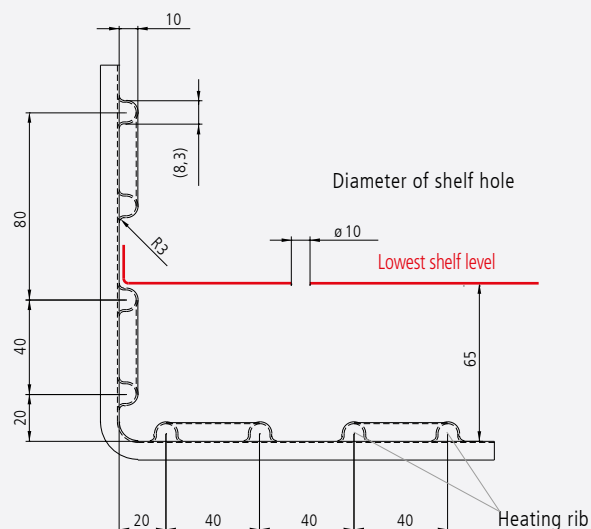
Full-sight glass door B0



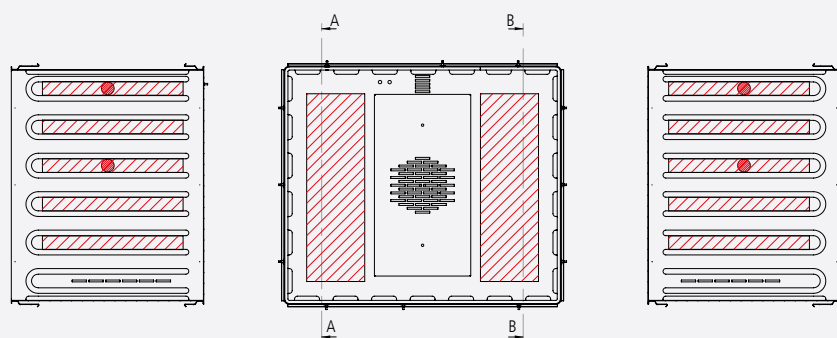
Clear width – glass door B0

Size	A	B
30	388	265
55	388	345
75	388	505
110	388	425
160	388	664
260	388	744
450	241	664
750	241	1144
1060	241	1144

Detail of working chamber with heating ribs



Port facilities, for appliances with fan, D6, F4, F5, F6, F7, F8, F9



Entry ports at the side

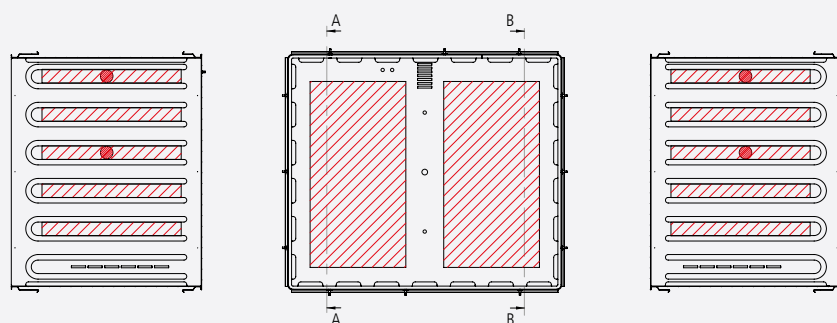
Port facilities at the back

Entry ports at the side

- Standard entry ports F0, F1, F2, F3
- ▨ Area for entry ports in special positions

These are only exemplary sketches. Please, ask for appliance-specific dimensioned drawings, if required.

Port facilities, for appliances without fan, D6, F4, F5, F6, F7, F8, F9



Entry ports at the side

Port facilities at the back

Entry ports at the side

- Standard entry ports F0, F1, F2, F3
- ▨ Area for entry ports in special positions

These are only exemplary sketches. Please, ask for appliance-specific dimensioned drawings, if required.

MODEL VARIANTS

SingleDISPLAY ControlCOCKPIT with one TFT display	TwinDISPLAY ControlCOCKPIT with two TFT displays
AVAILABLE APPLIANCES	AVAILABLE APPLIANCES
UN / UF / IN / IF / IPPeco / IPP / UNm / UFm / INm / IFm / SN / SF / IFbw	HPPeco / ICH / HCP / UNplus / UFplus / UF TS / UNpa / VO / INplus / IFplus / ICO / IPPecoplus / IPPplus / ICP / UNmplus / UFmplus / INmplus / IFmplus / SNplus / SFplus / ICOMed
One high-resolution TFT colour display with touch-sensitive buttons for selection of functions	Two high-resolution TFT colour displays with touch-sensitive buttons for selection of functions
Available parameters on the ControlCOCKPIT: Temperature (Celsius or Fahrenheit), fan speed, exhaust air flap position, programme time	Available parameters on the ControlCOCKPIT: Temperature (Celsius or Fahrenheit), fan speed, exhaust air flap position, programme time, relative humidity, illumination, CO ₂
One temperature sensor Pt100 DIN class A in a 4-wire circuit	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 % (not valid for models 30, HPP110eco, IPP110ecoplus, ICP, ICH)
AtmoCONTROL software ¹⁾ for reading out, managing and organising the data logger via Ethernet interface (temporary trial version can be downloaded).	AtmoCONTROL software ¹⁾ for programming, managing and transferring programmes via Ethernet interface or USB port
	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 online logging	Ethernet interface on the rear of the appliance for reading out the protocol log and for uploading programmes and for online logging
Double overtemperature protection: Electronic temperature monitoring with freely adjustable monitoring temperature, for models U, I, S with option A6 TWW/TWB (protection class 3.1 or 2), mechanical temperature limiter TB acc. to DIN 12880	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 12880, AutoSAFETY automatically adjusts to the set value within a freely adjustable tolerance range. Setting individual MIN / MAX values for over/undertemperature and also for all other parameters such as relative humidity, CO ₂
PID microprocessor control with integrated auto-diagnostic system	
Structured stainless steel housing, scratch-resistant, robust and durable; rear of zinc-plated steel	
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, Polish, Czech, Hungarian language settings available on the ControlCOCKPIT	
Digital backwards counter with target time setting, adjustable from 1 minute to 99 days	
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	

¹⁾ As a manufacturer, Memmert GmbH + Co. KG clearly labels its devices, which are medical devices in the sense of the European legislation. The AtmoCONTROL software is not a medical device. All Memmert medical devices can be used for their purpose without the software AtmoCONTROL. AtmoCONTROL is only intended for reading the data logging in conjunction with Memmert GmbH + Co. KG medical devices.

SOFTWARE AtmoCONTROL

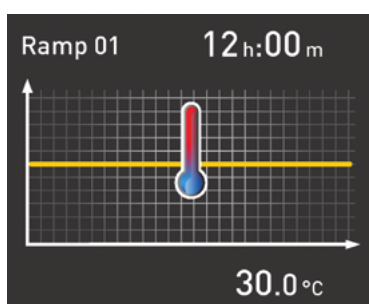
AtmoCONTROL

The innovative control and logging software

Parameters such as temperature and humidity as well as the process time can be set directly at the ControlCOCKPIT. Ramp programming is done via the control and logging software AtmoCONTROL.

Drag, drop & go!

Numerical and graphic programming of complex processes is a thing of the past. Today, programming is done via AtmoCONTROL by means of the mouse or touchpad on your notebook. Even the most complex ramp programmes are created within minutes. Simply drag & drop the graphical symbols for the desired parameters to the input field and change the values according to your wishes with a mouse click.

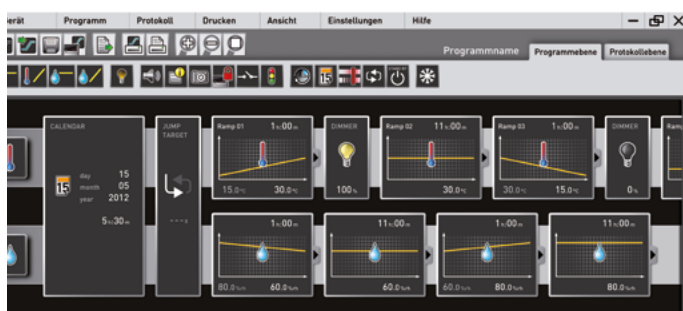


Programme functions for appliances with SingleDISPLAY and TwinDISPLAY

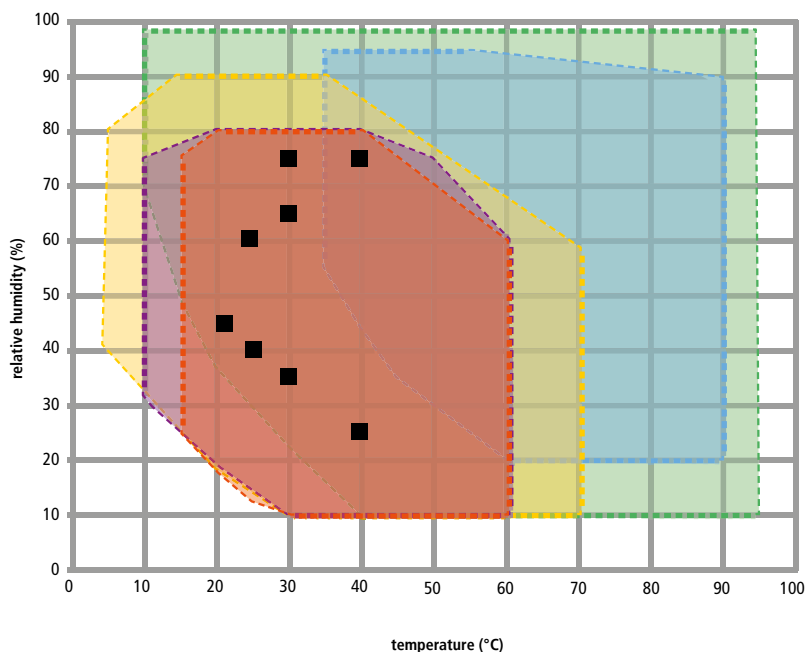
- Reading out, managing and organising the data logger
- Saving the log memory in various formats
- Online monitoring of up to 32 connected appliances
- Optical alarms when the alarm limits individually set at the ControlCOCKPIT are exceeded
- Automatic alarm to one or several e-mail addresses

Additional functions for appliances with TwinDISPLAY

- Intuitive programming and archiving of ramps and programme sequences
- Synchronous visualisation of the created programme sequence during programming
- Application-specific repeat functions (loops) can be inserted within a temperature control programme in any place
- Simple creation of repeating weekly programmes
- Programming, managing and transferring programmes via Ethernet interface or USB port



DECISION AID FOR PRODUCTS WITH HUMIDITY CONTROL



Explanation of diagram:

Within the respective temperature-humidity range, condensation-free permanent operation is possible. To which extent condensation may occur in the threshold range depends on the humidity content of the chamber load and the ambient conditions.

- ICH
- HPP110eco-HPP1060eco
- HPP1400eco/2200eco
- HCP
- CTC
- Climate testing points according to ICH guidelines

Model selection

Model size in litres (= dm ³)	ICH	HPPeco	HPPeco	HCP	CTC
56				HCP50	
107				HCP105	
108	ICH110	HPP110eco			
156				HCP150	
241				HCP240	
256	ICH260	HPP260eco			CTC256
384		HPP410eco			
749	ICH750	HPP750eco			
1060		HPP1060eco			
1360			HPP1400eco		
2140			HPP2200eco		
Temp. with hum.	+10 to +60 °C	5 ² to +70 °C	15 ³ to +60 °C	7 ¹ to +90 °C	+10 to +95 °C
Temp. w/o hum.	-10 to +60 °C	0 ² to +70 °C	0 ² to +70 °C	7 ¹ to +90 °C	-42 to +190 °C
Humidity range	10 to 80 % rh	10 to 90 % rh	10 to 80 % rh	20 to 95 % rh	10 to 98 % rh
Ambient conditions	+19 to +25 °C, max 50 % rh according to Memmert works standard				

¹ above ambient temperature

² at least 20 °C below ambient temperature

³ at least 10 °C below ambient temperature

Important notes concerning working ranges

If the temperature-humidity values exceed the specific limits (working range), the superheated steam introduced will immediately condense at the coldest point in the appliance, due to the dew point.

If the temperature-humidity values fall below the specific limits (working range), the effective range is heavily dependent on the humidity content of the chamber load.

The higher the humidity content of the chamber load, the more steam is generated inside the chamber. This may influence the maintenance of the constant humidity. If you need constant stable operation at the edges or the chamber load is very humid, we recommend dehumidifying with compressed air. We also have other technical solutions for special needs that guarantee stable operation. Send us your inquiry!

INTENDED USE AS MEDICAL DEVICE

Intended use as medical device

Every Memmert medical device is subject to a specific classification according to its intended use. Below you will find an overview of the respective use:

Type	Intended use as medical device	Classification according to MPG
UNmplus, UFmplus	The appliance may be used for heating fango, silicate and APS packs for physical therapy and keeping them warm.	I
UNm, UFm, INm, IFm	The appliance may be used for heating fango, silicate and APS packs for physical therapy and keeping them warm.	I
INmplus, IFmplus	The appliance may be used for temperature control of rinsing and infusion solutions and contrast agents.	I
IFbw	The appliance is used to heat non-sterile cloths and covers. Any other use is improper and may cause damage or danger.	I

Memmert is bringing medical devices of class I according to EU Directive 93/42/EEC into circulation until the regulation MDR (EU) 2017/745 comes into force. After the new regulation comes into force, Memmert will bring medical devices of class I into circulation according to MDR.

Type	Intended use as medical device	Classification according to MPG
SNplus, SFplus	The product is intended for the sterilisation of medical devices with dry heat at atmospheric pressure	IIb
SN, SF	The product is intended for the sterilisation of medical devices with dry heat at atmospheric pressure	IIb
ICOMed	The CO ₂ incubator ICOMed is used to generate and maintain constant ambient conditions for the in-vitro fertilisation (IVF) application field, especially for the incubation of oocytes, spermatozoa and zygotes in special culture dishes for IVF application as well as for gene expression and the biosynthesis of RNA and proteins.	IIa

Memmert is bringing medical devices of class IIa and IIb into circulation according to MDD 93/42/EEC until 26 May 2024 according to the transitional provisions by the (EU) 2017/745 article 120 (2).

m360 SOLUTIONS FOR YOU

The range of services of m360 includes both small modifications and complex high-tech innovations.

Since the 1980s, m360 has been developing and implementing customer-specific, premium solutions in the field of temperature and climate control technology based on Memmert series products. At Memmert's central production site in Schwabach, Middle Franconia (southern Germany), the m360 team of experts design and produce tailor-made solutions in close cooperation with customers and business partners in order to create the perfect atmosphere for every application.

In doing so, m360 focuses on the creative and innovative development of the established Memmert technology according to the individual wishes of the customers. This can be a simple modification of a series product from Memmert or an extensive project in the construction of special machines and systems.

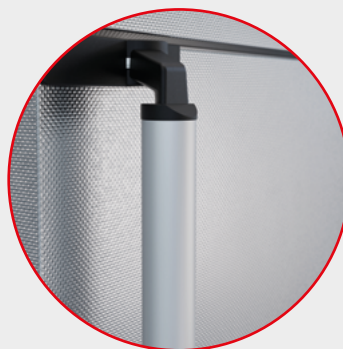
What we can do for you

Our brand is aimed at international customers who are looking for solutions to special challenges in the field of temperature and climate control technology. We offer an extremely high customer-first focus to create products that do not exist in the market. We collaborate closely with the customer to understand and meet the specific challenges and requirements down to the very last detail. At the same time, our experts work intensively on innovative ideas which they identify as highly topical, e.g., automatic solutions for the laboratory. With our experienced insight into the market, our team can precisely estimate trends and special solutions that will be in demand in the future.

The UF600plus in detail



Ergonomic telescopic rails and special trays make it easier to load the device.



The reinforced handle enables the particularly tall door to be opened easily.

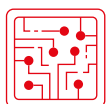
Modifications

With m360 modifications and special accessories, you can unleash the full potential of your Memmert product. In our m360 list of services, you will find a selection of frequently requested extensions of a Memmert basic device. This includes additions such as entry ports and traffic light circuits, as well as individual programming of the AtmoCONTROL software.



Mechanics

- Customised interior fittings
- Individual entry ports in all sizes and shapes
- Telescopic slide pull-outs for ergonomic loading



Elektronics

- Extended parameter monitoring e.g. by means of additional measuring sensors
- Optical and acoustic process monitoring e.g. by means of a traffic light system



Accessories

- Tailor-made subframe and stacking options
- Modified grids and shelves
- Individual air filters



Software

- Additional interfaces for data evaluation
- Individual temperature, humidity and CO₂ parameters

Select Series

Our m360 Select Series comprise of highly developed devices that are based on frequently expressed customer requests and have proven successful in practice. Customers value these high-quality custom-made products for their outstanding quality and reliability. The portfolio includes both frequently requested special sizes and appliances for highly specific requirements, such as meeting a standard for drying food residues on crockery. Each appliance in the m360 Select Series is the result of meticulous development work by m360 experts and is based on customer feedback, achieving perfect balance between innovation and practicality.

Innovations

With m360 Innovations, we offer you complete, customised solutions that are precisely tailored to your individual needs. Our team of experts is at your side from the initial technical consultation to the final implementation. Based on proven Memmert technology, we develop and build appliances that are specifically designed for your application. No matter how complex your requirements are, we deliver innovative solutions that are tailored to your specific needs and harness the full power of our technology.

24 HOURS AT YOUR SERVICE

www.memmert.com

Here you can find the latest news concerning our company and products, as well as detailed descriptions of every single product. Additional information on the technologies used will support your sales arguments. In addition to this, data sheets, certificates, operating instructions and brochures are available for download. Service notifications can be submitted to our service team using the corresponding form.

Dedicated login area for our trading partners

- Technical information:
Service instructions, software download, wiring diagrams, maintenance schedules etc.
- Marketing/sales information:
Press releases, product photos, image photos, videos, order form for advertising material etc.
- Download of price list and customisation department price list
- Dates and registration form for sales and service trainings

Our tip:

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Please consider the Memmert customer information, which we regularly send exclusively to our trading partners. We inform you about campaigns, upcoming product launches, service offers and new application reports!

PERSONAL NOTES





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