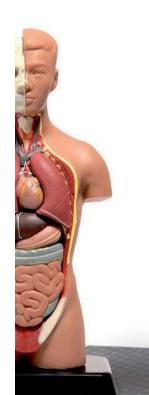


Incubator IN/INm and IF/IFm with SingleDISPLAY Incubator INplus/INmplus and IFplus/IFmplus with TwinDISPLAY Natural convection or forced air circulation AtmoCONTROL software

Model sizes: 30 / 55 / 75 / 110 / 160 / 260 / 450 / 750 +30 °C to +80 °C



INCUBATOR I Memmert incubators I are at home in the world of research, medicine, pharmaceutics and food technology. Organic chamber loads require gentle heating. For this reason, the heating and control system are especially optimised for low temperatures of up to +80 °C. To prevent temperature overshoots, temperature is increased within a very narrow control range and kept exactly at the setpoint value. As required, the models with natural convection or with forced air circulation are available.





As little air circulation as possible in the incubator

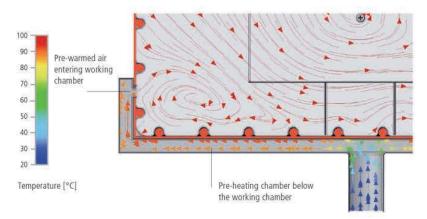
Forced air convection may destroy the protective layer from moist air that is generated during incubation over the samples. This would lead to dehydration of the culture. In a Memmert incubator, the perfect combination of all-round surface heating and temperature control system ensures that incubation generally takes place without forced air circulation. Provided the chamber is fully loaded and forced air circulation is required, it can be precisely adjusted in 10 % steps from 0 to 100 %.

Sterilisation

The chamber of the incubators INplus/IFplus/INmplus and IFmplus, including all installations and sensors, can be sterilised at $+160\,^{\circ}\text{C}$ in a 4-hour programme to guarantee optimum hygiene.

Fresh air is preheated

Temperature deviations caused by fresh air can influence sample characteristics or prolong drying. In Memmert incubators, the fresh air is therefore fed through a pre-heating chamber and seamlessly introduced into the working chamber.



Air supply from outside



The incubator Im is a medical device:

The incubator Im is a Class I medical device in accordance with the EU directive 93/42/EEC. In accordance with the intended use incubators INmplus and IFmplus may be used for warming of rinsing solutions and infusions as well as of contrast agents. Incubators INm (with option A6) are intended for heating fango, silicate and APS packs for physical therapy and keeping them warm.

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: (EAC not valid for medical devices)







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

Housing:

Textured stainless steel, rear zinc-plated steel, intuitively operated SingleDISPLAY or TwinDISPLAY (TFT colour display) with touchscreen; inner glass door, outside fully insulated stainless steel door

(from size 450 two leaves)

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

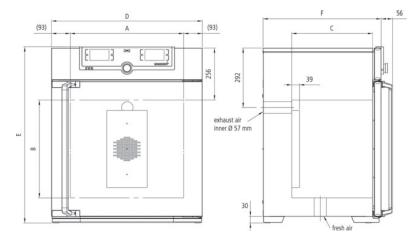
Connection: Mains cable with plug (German type)

4 feet; sizes 450/750 mounted on lockable castors Installation:

Interfaces:

Ethernet USB LAN D

USB: only TwinDISPLAY



									ilesii dii		
Model sizes/Descri	ption		30	55	75	110	160	260	450	750	
Stainless steel interior	Volume	approx. 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	Width	(D) mm	585			745		824	1224		
steel exterior	Height (size 450, 750 with castors)	(E) mm	704	784	944	864	1104	1183	1247	1726	
	Depth (without door handle), door handle + 56 mm	(F) mm	434	514		584		684	784		
Standard	Stainless steel grids, electropolished	number	1 2								
equipment	Standard works calibration certificate (measuring point chamber center)	°C	+37								
Temperature	Working temperature range	°C	min. 5 (IN/INplus/INm/INmplus) 10 (IF/IFplus/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	approx, W	1600	1000	1250	1400	1600	1700	1800	2000	
	Electrical load at 115 V, 50/60 Hz	approx. W	800	800 900 1500						1800	
Packing data	Net weight	approx.kg	48	57	66	76	96	110	161	217	
J	Gross weight (packed in carton)	approx. kg	64	76	85	101	122	161	227	288	
	Width	approx mm	660	730		830		930	1330		
	Height	approx. mm	890	950	1130	1050	1300	1380	1440	1910	
	Depth	approx. mm	650	670		800		930	1050		
Order No. Incubators I = Incubator N = Natural convection F = Forced convection m = Medical device plus = Model with TwinDISPLAY			IN30 IN30m	IN55 IN55m	IN75 IN75m	IN110 IN110m	IN160 IN160m	IN260 IN260m	IN450 IN450m	IN750 IN750m	
		IN30plus	IN55plus	IN75plus	IN110plus	IN160plus	IN260plus IN260mplus	IN450plus	IN750plu		
		IF30 IF30m	IF55 IF55m	IF75 IF75m	IF110 IF110m	IF160 IF160m	IF260 IF260m	IF450 IF450m	IF750 IF750m		
		IF30plus IF30mplus	IF55plus IF55mplus	IF75plus IF75mplus		IF160plus IF160mplus	IF260plus IF260mplus	IF450plus IF450mplus	IF750plu IF750mpl		

Oppose 15 , 5050 hr 2 Stocking 115 V, 5050 hr 2 Exceeded overtaingenzure protection by additionally integrated P100 servor for integrated overtaingenzure protection by additionally integrated P100 servor for integrated overtaingenzure protection by additionally integrated P100 servor for integrated overtaingenzure monitoring for mode with 5 military standard protection of the mode with 5 military includes replacement of standard grads by re-inforced grids Interior objection to ordering the lower in the working chamber) includes replacement of standard grads by re-inforced grids Interior objection to ordering the lower in the working chamber includes replacement of standard grads by re-inforced grids Interior objection to order with limited tempe cure range – max, +70°C*1 Interior objection to order with military to the protection of the protection of the device of the protection of										
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stailles steel grist Steeling is Browning als mounted in the working chamben) – includes replacement of standard grids by renifored grids. 80 Interior Sockiet (and not) be ordered with limited temperature range – max. – 70 °C) ampacity 230 °V, 22 °A, can be extiched oil with the On/OII switch, cannot be switched with limited temperature range – max. – 70 °C) ampacity 230 °V, 22 °A, can be extiched oil with the On/OII switch, cannot be switched with control of the Control of Steeling of the Control of Steeling of Steeling of Control of Steeling of Control of Steeling of Control of Steeling of Control of Steeling of Stee	Extended overtemperature protection by additionally integrated Pt100 sensor for independent temperature monitoring for models with SingleDISPLAY	A6								
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Section Content Cont	introducing connections at the side, can be closed by flap and silicone stopper, standard positions right centre/centre	F1 F2								
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+200 or +220 °C (Please, indicate upon ordering)		C3								
Castor frame (2-part), height 140 mm		A8								
	Castor frame (2-part), height 140 mm	R9 -								

Accessories	30	55	75	110	160	260	450	750
Stainless steel grid, electropolished		E20164		E20165		E28891	E20182	
Additional reinforced stainless steel grid, electropolished, max. loading 60 kg; from size 450 with guide bars and fixing screws (only in connection with option K1). Please consider max. loading of chamber		-		E29767		E29766	B32190	
Perforated stainless steel shelf	B29727	B03916		B00325		B29725	B00328	
Additional reinforced stainless steel shelf, max. loading 60 kg; with guide bars and fixing screws (only in connection with option K1). Please consider max. loading of chamber	-						B32191	
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution) — cannot be used in connection with option K1		E02072		E02073		E29726	E02075	
Stainless steel slide-in drip tray, 15 mm rim, with guide bars and fixing screws (can be used only in connection with option K1)		-					B32763	
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution) – cannot be used in connection with option K1	B04356	B04358		B04359		B29722	B04362	
Stainless steel bottom drip tray, 15 mm rim (can be used only in connection with option K1)		-					B34055	
Wall bracket for wall mounting	B29755	B29756	B29757	B29758	B29759		-	

Accessories	30	55	75	110	160	260	450	750			
Guarantee extension by 1 year		GA1Q5 GA2Q5									
USB-Ethernet adapter		E06192									
Ethernet connection cable 5 m for computer interface	E06189										
USB User-ID stick (with User-ID licence): Oven-linked authorisation licence (User-ID- programme) on Memory-stick, prevents undesired manipulation by unauthorised third parties. When reordering please specify serial number (only for units with TwinDISPLAY)	B33170										
USB stick with documentation software AtmoCONTROL and operation manual for products with SingleDISPLAY (the standard equipment of appliances with TwinDISPLAY includes one USB stick with AtmoCONTROL), When reordering please specify serial number	B33172										
Set of height adjustable feet (4 pcs)	B29768 -										
Stacking set (4 pcs) for stacking of appliances of same size		B29	744				-				
Plug-in tube extension (outer diam. 60.3 mm, inner 57 mm), straight, for exhaust air ducting (if necessary for connection by hose)				B29	718						
Plug-in tube extension (outer diam. 60.3 mm, inner 57 mm), angled, for exhaust air ducting (if necessary for connection by hose)	B29719										
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), with air slots	B29728	B29730	B29732	B29734	B29736	B29738	B29740	B29742			
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), without air slots	B29729	B29731	B29733	B29735	B29737	B29739	B29741	B29743			
Subframe, adjustable in height (size 30 to 75: height 600 mm, size 110 to 450: height 500 mm)	B29745	B29747		B29749		B29751	B29753	-			
Subframe, on castors (size 30 to 75: height 660 mm, size 110 to 160: height 560 mm)	B29746	B29748		B29750			-				
Subframe, adjustable in height, height 130 mm, for example for units with fresh air filter	B33657	B33659		B33661		B33664 -		-			
Software conforming to FDA AtmoCONTROL. Meets the requirements for the use of electronically stored data sets and electronic signatures as laid down in Regulation 21 CFR Part 11 of the US Food and Drug Administration (FDA). Base licence for the control of one unit (only for units with TwinDISPLAY). Respective IQ/OQ documents available in German and English language (without surcharge)	FDAQ1										
Integration of one additional unit (up to max, 15 units) into an already existent FDA- software licence (only for units with TwinDISPLAY)		FDAQ2									
IQ document with device-specific works test data, OQ/PQ check list as support for validation by customer	D00124										
IQ/OQ document with device-specific works test data for one free-selectable temperature value, incl. temperature distribution survey at Memmert for 9 measuring points (size 30), 27 measuring points (sizes 55 – 1060) to DIN 12880:2007-05. PQ check list as support for validation by customer. Price for further temperature values and validation at customer site on demand	D00125 D00127										