

# Incubators

## Incubators IN/IF Series

**memmert**

- ◆ Stainless steel interior and exterior sides (external rear panel-zinc coated steel)
- ◆ Temperature range ambient +5°C (IN-series) or +10°C (IF-series) to +80°C
- ◆ Choice of natural (IN-series) or forced air, fan (IF-series) convection models
- ◆ With choice of SingleDISPLAY or TwinDISPLAY (plus-series) colour TFT, multi-touchscreen controlCOCKPIT controller

### — SingleDISPLAY controlCOCKPIT

Display of temperature (°C or °F), fan speed (IF-models only) and programme time. Includes one Pt100 DIN Class A temperature sensor in a 4 wire circuit and ethernet interface. Dual overtemperature protection with freely adjustable monitoring of temperature and mechanical temperature limiter (TB Class 1) to DIN 12 880. With AtmoCONTROL logging software for online monitoring of up to 32 connected appliances, optical alarms when set alarm limits are exceeded and automatic alarm email notifications.

- ◆ Heaters located in ribs on all four sides provide uniform heating
- ◆ Digital process timer, adjustable between 1 minute and 99 days, 23 hours
- ◆ 10 year datalogger
- ◆ Setting accuracy: ±0.1°C
- ◆ Supplied with 1 or 2 stainless steel wire grid shelves
- ◆ Inner glass door

### — TwinDISPLAY controlCOCKPIT

Display of temperature (°C or °F), fan speed (IF-models only) and programme time. Includes two Pt100 DIN Class A temperature sensors in a 4 wire circuit, ethernet and USB interfaces and heatBALANCE function for adjustment of heating power distribution of the upper and lower heating groups in an adjustment range between -50% and +50%. Multiple overtemperature protection monitoring TWW/TWB (protection Class 3.1/3.2, respectively) and mechanical temperature limiter (TB Class 1) to DIN 12 880, with settings for individual maximum/minimum values for over/undertemperature alarms. Also includes AUTOSAFETY function which allows automatic adjustment to the set value within a freely adjustable tolerance range. With AtmoCONTROL logging software as SingleDISPLAY controller, but additionally includes display of the programme sequence created by the user, repeat functions which can be inserted anywhere within the control sequence and creation of repeating weekly programmes which can be transferred via ethernet or USB interfaces provided.



### IN/IF Series Incubators, Memmert

Model	Natural convection	IN30	IN55	IN75	IN110	IN160	IN260	IN450*	IN750*
	Forced convection	IF30	IF55	IF75	IF110	IF160	IF260	IF450*	IF750*
	Natural convection	IN30plus	IN55plus	IN75plus	IN110plus	IN160plus	IN260plus	IN450plus*	IN750plus*
	Forced convection	IF30plus	IF55plus	IF75plus	IF110plus	IF160plus	IF260plus	IF450plus*	IF750plus*
Volume	litres	32	53	74	108	161	256	449	749
Internal (external)	H	mm 320 (707)	400 (787)	560 (947)	480 (867)	720 (1107)	800 (1186)	720 (1247)	1200 (1726)
	W	mm 400 (585)	400 (585)	400 (585)	560 (745)	560 (745)	640 (824)	1040 (1224)	1040 (1224)
	D	mm 250 (434)	330 (514)	330 (514)	400 (584)	400 (584)	500 (684)	600 (784)	600 (784)
Shelves supplied		1	1	2	2	2	2	2	2
Max. no. of shelves held		3	4	6	5	8	9	8	14
Max. loading per shelf grid	kg	30	30	30	30	30	30	30	30
Max. loading of chamber	kg	60	80	120	175	210	300	300	300
Power loading	kW	0.8	1.0	1.25	1.4	1.6	1.7	1.8	2.0
Power supply		230V 50/60Hz single phase — all models							
Net weight	kg	44	55	64	72	80	96	160	192

\*Double door models, mounted on lockable castors.

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# Incubators

## Incubators IN/IF Series continued

**memmert**

As described. With choice of SingleDISPLAY or TwinDISPLAY controller, integral process timer adjustable from 1 minute to 99 days, 23 hours, dual or multiple overload protection (-plus models only), temperature and time TFT display, chamber ventilation slide adjustment and stainless steel grid shelves. For 230V 50/60Hz single phase supplies.

### IN Natural convection, SingleDISPLAY Controller Models

**IN472-10** IN30, 32 litres  
**IN472-12** IN55, 53 litres  
**IN472-14** IN75, 74 litres  
**IN472-16** IN110, 108 litres

**IN472-18** IN160, 161 litres  
**IN472-20** IN260, 256 litres  
**IN472-22** IN450, 449 litres  
**IN472-24** IN750, 749 litres

### IF Forced Air convection, SingleDISPLAY Controller Models

**IN472-26** IF30, 32 litres  
**IN472-28** IF55, 53 litres  
**IN472-30** IF75, 74 litres  
**IN472-32** IF110, 108 litres

**IN472-34** IF160, 161 litres  
**IN472-36** IF260, 256 litres  
**IN472-38** IF450, 449 litres  
**IN472-40** IF750, 749 litres

### INplus Natural convection, TwinDISPLAY Controller Models

**IN472-50** IN30plus, 32 litres  
**IN472-52** IN55plus, 53 litres  
**IN472-54** IN75plus, 74 litres  
**IN472-56** IN110plus, 108 litres

**IN472-58** IN160plus, 161 litres  
**IN472-60** IN260plus, 256 litres  
**IN472-62** IN450plus, 449 litres  
**IN472-64** IN750plus, 749 litres

### IFplus Forced Air convection, TwinDISPLAY Controller Models

**IN472-66** IF30plus, 32 litres  
**IN472-68** IF55plus, 53 litres  
**IN472-70** IF75plus, 74 litres  
**IN472-72** IF110plus, 108 litres

**IN472-74** IF160plus, 161 litres  
**IN472-76** IF260plus, 256 litres  
**IN472-78** IF450plus, 449 litres  
**IN472-80** IF750plus, 749 litres

### Accessory Shelves

Stainless steel wire grid.

**IN473-04** For 32 litre incubator  
**IN473-06** For 53 and 74 litre incubators  
**IN473-08** For 108 and 161 litre incubators  
**IN473-10** For 256 litre incubator  
**IN473-12** For 449 and 749 litre incubators



IN472-36