

IKA

designed for scientists

EN



INCUBATE, SHAKE, COOL | [INC 125 series](#)

Incubator INC F digital

Incubator shaker INC 125 FS digital

Cooling incubator INC 125 FC digital

Cooling Incubator with shaking function INC 125 FCS digital

Ideal for your cell cultures: The devices in the INC 125 incubator series are particularly suitable for applications in the Life Sciences - for microbiological tests, stability studies, or cell cultivation.

IKA incubators provide precise and reliable temperature control. With a capacity of 125 liters, the standard INC 125 F incubator **offers the largest volume in its class**. INC 125 FS digital is the first incubation shaker **with a patented removable shaking platform**. INC 125 FC cooling incubator is particularly **resource- and environmentally friendly** thanks to powerful compressor cooling technology and the use of the natural refrigerant R 290. The INC 125 FCS digital combines optimal conditions cell cultivation with integrated cooling and shaking functionality in one advanced unit.

Precise

Just like the shaker and non-shaker incubator models, the cooling incubator as well as the cooling incubator with shaking function ensure precise temperature control and uniform temperature distribution throughout the chamber. Homogeneous temperature distribution and forced convection ensure rapid recovery to the set temperature after door opening. In addition, excellent insulation and optimized airflow support energy-efficient operation. A variable-speed fan allows airflow to be adjusted between 40% and 100% or switched off entirely, depending on application requirements. The INC 125 F digital incubator also has a ventilation flap which can be flexibly adjusted (0 – 100%). The INC 125 FCS digital is a cooling incubator, with shaking function, featuring a wide temperature range from 5°C to 80°, and a 100°C decontamination cycle with a duration of three hours.

All incubators are supplied with a temperature calibration certificate at 37°C. Cooling models are additionally supplied with a calibration certificate at a low-temperature setpoint. Further calibration points are available upon request, either ex works or as a service.





Stackable

For optimal use of space, up to two IKA incubators can be securely stacked with the designated stacking accessories. When combining different models, the INC 125 FC (cooling incubator), INC 125 FS (shaking incubator), or the new INC 125 FCS (cooling and shaking incubator) should always be positioned at the bottom due to their higher weight and integrated cooling or shaking system. The lighter INC 125 F heating incubator can be placed on top.



User-friendly

The modern LCD display is large and clearly arranged. Built for busy laboratory workflows, the intuitive menu structure makes setup and daily operation effortless. Counter, timer and timer-auto modes are conveniently available. The outer door can be opened up to an angle of 180° on all units. Incubator and cooling incubator also come with an inner glass door with an opening angle of 172°. The incubator shaker INC 125 FS as well as the cooled incubator with shaking function INC 125 FCS are equipped with interior lighting.



Safe

Multiple safety features support safe operation: temperature limit settings with automatic shutdown of the heating function in case of overheating, and an automatic shaking stop when the door is opened. The inner chamber is made of the corrosion-resistant material AISI 304. And to prevent cross-contamination, there is a decontamination mode. The incubator door of all incubators of the INC 125 series can be secured with an optional door lock, available as an accessory.

Cooling and Non-Cooling Shaking Incubators

The IKA INC 125 Series now offers four versatile models, heating, heating and shaking, heating and cooling, or a combination of all three, providing optimal conditions for every application.



Patented

The INC 125 FS digital and the new INC 125 FCS digital are the only IKA shaken incubators that feature a patented removable shaking platform. The patented platform design allows effortless attachment of fixing clips or the STICKMAX adhesive mat. By sliding the platform into the chamber up to the marking line, it locks securely in place, ensuring a tilt-proof setup and particularly easy loading. Both incubators automatically recognize the installed shaking platform. When removed, the units can be used as standard incubators.

Versatile

With the INC 125 FCS digital and the INC 125 FS digital, you benefit not only from temperature control but also from excellent shaking performance at up to 300 rpm. In addition to the shaking platform, the device has five additional grid shelves for static incubation. If required, the shaker platform is available with a smaller or a larger stroke, which are available as accessories. There are two packages: one with a 20 mm shaking stroke and one with a 25 mm shaking stroke. For samples that are sensitive to shear forces and require a low shaking speed, the 25 mm shaking stroke at the same speed achieves better oxygen enrichment.

Environmentally friendly



The INC 125 FCS digital and the new INC 125 FC digital cooling incubators feature powerful, compressor-based cooling technology and use the natural refrigerant R290. This results in high energy efficiency and a reduced environmental impact, with a very low Global Warming Potential (GWP = 3). The R290 cooling system is particularly efficient when operating at setpoints around 10°C below ambient temperature, enabling reliable cooling performance even in warmer climates. The integrated automatic defrost function ensures the chamber remains free of ice, even at low temperatures, while any resulting condensation is safely drained through a dedicated discharge opening.





TECHNICAL DATA	INC 125 F DIGITAL	INC 125 FS DIGITAL	INC 125 FC DIGITAL	INC 125 FCS DIGITAL
Device	Incubator	Incubator Shaker	Cooling incubator	Cooling incubator
Working temperature	RT + 8 °C to 100 °C	RT + 8 °C to 80 °C	-5 °C to 100 °C	5 °C to 100 °C
Temperature stability	0.3 K	0.1 K	0.2 K	0.3 K
Refrigerant	–	–	R 290	R 290
Volume	125 l	125 l	125 l	125 l
Decontamination mode	Yes (120 °C)	Yes (100 or 120 °C)	Yes (100 °C)	Yes (100 °C)
Interior lighting	No	Yes	No	yes
Observation window	Inner door made of tempered glass	Door with double-glazed viewing window	Inner door made of tempered glass	Door with double-glazed viewing window
Speed	–	10 – 300 rpm	–	10 – 300 rpm
Shaking stroke	–	20 mm or 25 mm	–	20 mm or 25 mm
Ventilation flap	Yes	No	No	No
Circulating air (0 – 100°) adjustable	Yes	Yes	Yes	Yes
Door opening angle	172° (Inner door)	180°	172° (Inner door)	180°
Lockable door	Yes (Accessory)	Yes (Accessory)	Yes (Accessory)	Yes (Accessory)

Spacious

With a capacity of 125 liters, spacious in its class and has the smallest footprint. The INC 125 F and FC digital models can accommodate up to six sample trays. If the shaking platform is removed from the INC 125 FS/FCS incubator shaker, this also applies to this model. Even so, the devices have a compact design.

Quickly cleaned

All models feature an inner chamber made of corrosion-resistant AISI 304 stainless steel and rounded edges with no exposed screws and openings that enable easy cleaning. The easily removable shaker platform of the INC 125 FS and INC 125 FCS provides unobstructed access to all corners and areas of the incubator chamber for fast and thorough cleaning. The platform can be removed without tools, saving valuable time in the lab. Even without the shaker platform installed, the incubator remains fully operational, offering maximum application versatility and flexible use of chamber space. A practical drip pan is available as an accessory, which makes cleaning even easier after shaking the samples in case liquid accidentally spills over during operation. To prevent cross-contamination, there is a decontamination mode at 100 or 120 °C. Its effectiveness has been tested and verified by an independent test (SGS INSTITUT FRESENIUS GmbH, test report no. BS_20230426_RW_1).



The door hinge can be configured left- or right-hand on request.

The door of the incubator shaker is made of tempered glass.

Four rubber feet for stable standing and to dampen vibration.

Incubator INC 125 F digital
Ident. No.: 0020117172

Cooling incubator INC 125 FC digital
Ident. No.: 0020126186

Incubator shaker INC 125 FS digital SP20
Ident. No.: 0020117221

Incubator shaker INC 125 FS digital SP25
Ident. No.: 0020117230

Cooling and Shaking INC 125 FCS digital SP20
Ident. No.: 0020135425

Cooling and Shaking INC 125 FCS digital SP25
Ident. No.: 0020136638

Accessories

A wide range of accessories is available for both devices. These include fixing clips, a STICKMAX adhesive mat, stacking accessories, and shelves.

You can find out more about our accessories at www.ika.com.



Number of usable vessels with

FIXING CLIP	VESSEL VOLUME	FIXING CLIPS	STICKMAX
AS 2.0	10 ml	96 pcs.	128 pcs.
AS 2.1	25 ml	39 pcs.	111 pcs.
AS 2.2	50 ml	39 pcs.	66 pcs.
AS 2.3	100 ml	24 pcs.	36 pcs.
AS 2.4	200 / 250 ml	12 pcs.	20 pcs.
AS 2.5	500 ml	12 pcs.	12 pcs.
AS 2.6	1000 ml	6 pcs.	8 pcs.
AS 2.7	2000 ml	2 pcs.	6 pcs.

Shaker attachments and combination options

/// Recommendations for Erlenmeyer flasks

IKA shaker	Combination of accessories	25 ml	50 ml	100 ml	200 ml	250 ml	500 ml	1000 ml	2000 ml	3000 ml	5000 ml
ERLENMEYER FLASK											
KS 3000 i control KS 3000 ic control	STICKMAX	44	36	25	-	9	9	4	2	-	-
	AS 260.1 Universal attachment	28	24	15	-	6	6	2	-	-	-
	Required tension rollers for AS 260.1	5	5	4	-	3	3	2	-	-	-
	AS 260.2 Holding clamp mounting bracket	31	28	17	-	10	9	5	-	-	-
KS 4000 i control KS 4000 ic control	STICKMAX	81	49	36	-	16	9	9	4	2	-
	AS 4000.1 Universal attachment	54	35	24	-	12	9	6	4	2	-
	Required tension rollers for AS 4000.1	7	6	5	-	4	4	3	3	2	-
	AS 4000.2 Holding clamp mounting bracket	55	52	25	-	16	11	7	4	-	-
INC 125 FS digital INC 125 FCS digital	STICKMAX	111	66	36	20	20	12	8	6	-	-
	Required mounting clips for IO SP 20 / IO SP 25 shaker platform	39	39	24	12	12	12	6	2	-	-

Overview of IKA incubator shakers



	KS 3000 I CONTROL	KS 4000 I CONTROL	INC 125 FS DIGITAL	INC 125 FCS DIGITAL
Door variant	Front lift	Front lift	Front door	Front door
Type of movement	Rotating	Rotating	Rotating	Rotating
Incubator model	Tabletop device	Tabletop device	On/under laboratory bench, on floor, stackable	On/under laboratory bench, on floor, stackable
Temperature max.	80 °C	80 °C	80 °C	100 °C
Speed range	10 – 500 rpm	10 – 500 rpm	10 – 300 rpm	10 – 300 rpm
Total volume of inner chamber	50 l	90 l	125 l	125 l
Permissible shaking weight	7.5 kg	20 kg	7.5 kg	7.5 kg
Offers static incubation and shaking incubation	No	No	Yes	Yes
Decontamination mode	No	No	Yes, at 100 °C or 120 °C without shaker platform)	Yes, at 100 °C
Shaking stroke	20 mm	20 mm	20 mm or 25 mm	20 mm or 25 mm
Removable shaking platform	No	No	Yes	Yes
Cooling option	KS 3000 ic control	KS 4000 ic control	No	Yes
External sensor	Included	Included	Not available	Not available

Calibration services and qualification

IKA stands for quality, safety and accuracy in laboratory and analytical technology. On request, we calibrate your laboratory equipment and document measurement and reference values under specially defined conditions. We also support you in the qualification of your devices. Even before you buy, we will be happy to make you an offer for various certificates and documents:

- › Qualification documents
- › IQ/OQ documents
- › Qualification procedure



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