

# IKA

designed for scientists



## INC 125 FCS digital (SP25), Cooling and Shaking Incubator

/// Fiche technique

The cooling incubator with shaking function INC 125 FCS digital impresses with its precise temperature control, making it ideal for microbiological applications in the range of 5 to 80 °C. It is the first cooling and shaking incubator featuring a patented, tool-free removable shaker platform. Without the platform, the appliance can be used like a conventional cooling incubator. Its high temperature stability and uniform shaking motion, which enhances oxygen transfer into the samples, make the INC 125 FCS digital the perfect solution for cell cultivation and other microbiological processes. The powerful compressor cooling technology uses the natural refrigerant R290, making the INC 125 FCS digital particularly energy-efficient and environmentally friendly. With an internal volume of 125 liters, it offers the largest capacity in its class and allows the simultaneous use of up to six shelves in its spacious chamber.



designed for scientists

#### Patented removable shaker platform

- High shaking speed from 10 to 300 rpm
- Shaking stroke: 25 mm (optional: 20 mm) for optimum oxygen input
- The shaker platform can be pulled out halfway and up to the indicator line for comfortable and tilt-proof loading.
- The threaded grid on the platform allows the mounting of fixing clips or STICKMAX adhesive mat for different vessels and sizes
- When the door is opened, the shaking function stops automatically
- Shaking and temperature control function can be used independently of each other

#### Hygienic Working Conditions

- Decontamination mode (100 °C) for prevention of cross-contamination
- Easy-to-clean interior with rounded corners and flat surfaces made of corrosion-resistant AISI 304 stainless-steel surfaces
- Defrost function with continuous water drainage through the drain opening

#### Optimal Temperature Control

- Wide temperature range: 5 °C to 80 °C
- Excellent temperature stability and uniformity:  $\pm 0.3$  K
- Adjustable internal air circulation via electronically controlled fan speed (40–100%)
- Superior temperature management and optimized energy efficiency thanks to outstanding chamber insulation
- Door with large viewing window and interior lighting for observing samples without temperature loss

#### Simple and Intuitive Operation

- Large, user-friendly LCD display for clear and easy readability
- Reproducible experimental conditions ensured through counter, timer, temperature-controlled timer, and operating modes A, B, and C

#### Versatile Accessories

- Up to two IKA incubators can be safely stacked. An INC 125 F (incubator) can be placed on top of the INC 125 FCS (IO S 2.10 Stacking kit required)
- Door lock (optional accessory)
- Shaking platform available with 20 mm or 25 mm shaking amplitude
- Various shelf options available

#### Service Options

- Door hinge on the right, can be changed on request
- Installation and Operational Qualification (IQ/OQ) available upon request

#### Contenu de la livraison

- INC 125 FCS digital (SP20), Cooling and Shaking Incubator



designed for scientists

- IO SP 25 Shaker platform
- IO T 1.00 (2 PK)
- Tilt protection / assembly material (2 PK)
- USB C-A cable
- Calibration certificate at 37 °C & 5 °C
- Hose adapter (for hoses Ø 9-11 mm)



designed for scientists

## Données techniques

liquide de refroidissant	R290
quantité du liquide de refroidissement [g]	55
Pression max. du fluide réfrigérant [bar]	21
Puissance de chauffage [W]	750
Température de travail [°C]	5 - 80
réglage et résolution de l'écran [K]	0.1
Stabilité de la température (37 °C à 22 °C) [K]	±0.3
Homogénéité de la température (37 °C à 22 °C) [K]	±0.3
Temps de chauffe (37 °C à 22 °C) [min]	8
Récupération de la température de la porte (37 °C à 22 °C) [min]	4
Affichage de la température	oui
Affichage	LCD
Minuterie	oui
Affichage de la minuterie	LCD
Réglage de la durée max. [d]	100
Nombre max. de fonds grillagés	6
Chargement max. par tablette [kg]	20
Volume total de la chambre interne [l]	125
Dispositifs de sécurité thermique selon la norme DIN 12880	TB class 1
Limiteur de point de consigne avec arrêt de sécurité	oui
Porte avec fenêtre	oui
Contrôle par sonde de température	PT 100 4 fils
Fonction de dégivrage	oui
Nettoyage par décontamination thermique (100 °C / 2 h)	oui
Agitateurs orbitaux [mm]	25
Plage de vitesse [rpm]	10 - 300
variation de la vitesse [rpm]	±5
Capacité admissible (support inclus) [kg]	7.5
Dimensions de la plaque [mm]	340 x 480
Consommation électrique à 37 °C [Wh/h]	79
Drain tube inner diameter [mm]	10
Niveau sonore [dB(A)]	55
Dimensions (L x H x P) [mm]	700 x 1000 x 635
Poids [kg]	95
Plage de température du milieu admise [°C]	15 - 32
Humidité relative admissible [%]	70
Protection selon DIN EN 60529	IP 20
Interface numérique USB	USB-C
Tension [V]	220 - 240
Fréquence [Hz]	50/60
Puissance absorbée de l'appareil [W]	1000
Puissance absorbée max. [W]	1000
Fusible	2x T6.3A 250V