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INC 125 FS digital (SP20) Incubator shaker

/// Data Sheet

INC 125 FS digital is the first incubator shaker with a patented removable shaker platform. Without the platform, the unit can be used like a normal incubator. The large inner chamber with a volume of 125 liters offers space for up to 6 grid shelves (without shaker platform).

Thanks to high temperature stability and a uniform shaking motion that improves oxygenation, the incubator shaker is the perfect solution for cell cultivation and other microbiological applications.

Patented removable shaker platform

- High shaking speed up to 300 rpm



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- Shaking stroke: 20 mm (optional: 25 mm) for optimum oxygen input
- The shaker platform can be pulled out halfway (with line indicator) 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
- Automatic detection of the shaker platform allows the temperature to be automatically adjusted in decontamination mode (100 or 120°C)
- When the door is opened, the shaking function stops automatically
- Shaking and temperature control function can be used independently of each other

Easy to clean

- Simple cleaning of the interior thanks to rounded corners and flat surfaces made of corrosion-resistant material AISI 304
- The optional drip pan provides additional safety in case of liquid overflow or can be used as water reservoir to increase humidity in the chamber
- Decontamination mode for disinfection and reduction of cross-contamination (100/120°C)

Optimal temperature control

- Wide temperature range: RT +8°C to 80 °C
- Excellent temperature management and optimized energy consumption thanks to very good insulation of the inner chamber and triple-glazed door with window
- Internal air circulation can be influenced by electronically adjustable fan speed (0-100%)

Simple and intuitive operation

- Very large LCD display for easy reading
- Large viewing window and switchable interior lighting for observation of samples
- Counter, timer and timer auto (temperature-controlled) function to ensure reproducible test conditions

Versatile accessories

- Up to two devices (incubator shaker or incubator) can be stacked (with corresponding accessories)
- Different trays available
- Shaking platform available with 20 or 25 mm shaking stroke

Services

- Door hinge on the right, changeable on request
- Installation and Operation Qualification (IQ/OQ) available on request

Scope of delivery

- INC 125 FS digital
- shaker platform SP20



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- IO T 2.10 Wire grid tray, chrome plated
- Tilt protection (2 pcs.)
- USB A-B Cable
- Calibration certificate at 37°C



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Technical Data

Heat output [W]	750
Working temperature [°C]	room temp. +8 - 80
Adjustment and display resolution [K]	0.1
Temperature stability (37°C @22°C) [K]	±0.1
Temperature homogeneity (37°C @22°C) [K]	±0.2
Temperature heat up time (37°C @22°C) [min]	12
Temperature door recovery (37°C @22°C) [min]	2
Temperature display	yes
Display	LCD
Time setting max. [d]	100
Number of trays max.	6
Load for one tray max. [kg]	20
Operating area inner chamber [mm]	550 x 550 x 415
Total volume inner chamber [l]	125
Thermal safety devices according DIN 12880	TB class 1
Set-point limiter with safety shutdown	yes
Door with window	yes
Temperature sensor control	PT 100 4 wire
Cleaning thermal decontamination (120°C)	yes
Thermal decontamination with SP20/25 (100°C)	yes
Shaking stroke [mm]	20
Speed range [rpm]	10 - 300
Speed deviation [rpm]	±5
Permissible shaking weight (incl. attachment) [kg]	7.5
Set-up plate dimensions [mm]	340 x 480
Power consumption at 37°C [Wh/h]	85
Dimensions (W x H x D) [mm]	700 x 720 x 635
Weight [kg]	70
Permissible ambient temperature [°C]	15 - 32
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
USB interface	USB-B
Voltage [V]	200 - 240
Frequency [Hz]	50/60
Power input [W]	850
Power input max. [W]	850
Power input standby [W]	2
Fuse	2x T5.0A 250V