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Incubation



Single Plate Incubators

Incubator & Incubator Shaker for lab automation systems

Incubators for lab automation systems

Temperature control and shaking within enclosed chambers

Single Plate Incubator product line

Product description

The single plate incubator product line are automated and stackable heated incubators for one ANSI/SLAS disposable. Two incubation-only versions are available for incubation of either one microplate (MP) or deepwell plate (DWP) including a lid. Two further versions offer an additional low vibration shaking function, also for MPs or DWPs.

Precise temperature and shaker control, USB interface, plate loading sensors and several self test routines guarantee a safe and fast processing of samples. The design of the units with shaking function is based on a unique vibration reduced shaking principle, which enables free programmable shaking curves (linear, circle, elliptic, eight). Software and verification tools are available to form a complete thermal solution for all kinds of incubation applications.

The units are plug-and-play high performance incubation devices with CE and UL certification, prepared for use in customer IVD applications. MP variants heating is achieved via bottom contact surface, resulting in a heating of the sample from 20 °C up to 37 °C in approximately 20 minutes. The DWP variants heat from all sides within the chamber and thus are ideal if condensation needs to be avoided during incubation. This heating principle also confers heating rates up to 4 times faster than in conventional incubators.



7300009 Incubator Shaker DWP



7300013 Incubator Shaker MP

Features

All Incubator models:

- Stackable to form towers, different devices stackable
- Additional fixation needed when more than 3 units in one stack
- Devices are individually & independently controlled (master-slave principle)
- 90 ° turning of the door after drawer opening ensures easy access by pipetting heads & robotic grippers
- Self-test routines and plate loading sensor guarantee safe and fast processing
- Direct contact heating with temperature boost ensures best heating rates
- Temperature range: ambient +5 K to 80 °C
- Plate with lid also fits

Incubator Shaker models:

- Precise temperature and shaker control for microplates and deepwell plates
- Shaking from 400 to 1,800 RPM, amplitudes from 0 to 3 mm
- Free programmable shaking pattern (linear, circle, elliptic, eight)

The Incubators are integrated with major liquid handling systems, primarily:

Beckman Coulter: Biomek FX, NX, i-Series
PerkinElmer: JANUS, Sciclone, Zephyr, Multiprobe II
Hamilton: Star Line, Vantage
Tecan: Freedom EVO, Fluent



7300006 Incubator DWP

Product	Part No.	Temperature range	RPM	Amplitude
Incubator Shaker DWP	7300009	ambient +5 K to 80 °C	400 - 1,800	0 - 3 mm
Incubator Shaker MP	7300013	ambient +5 K to 80 °C	400 - 1,800	0 - 3 mm
Incubator DWP	7300006	ambient +5 K to 80 °C	-	-
Incubator MP	7300003	ambient +5 K to 80 °C	-	-

Main specifications

Specifications	7300009	7300013	7300006	7300003
Interface	USB			
Drawer accuracy (mm)	±0.3			
Ambient temperature	15 °C to 32 °C			
Accuracy at 37 °C target temp. ¹⁾	±0.3 K			
Uniformity at 37 °C target temp. ¹⁾	±1.0 K ²⁾	±0.8 K ³⁾	±0.6 K ²⁾	±0.5 K ³⁾
Heat up time 20 °C to 37 °C	varies depending on plate, volume and type of liquid. Please refer to manual or contact INHECO for further information			
Input	24 Vdc/60 W	24 Vdc/50 W	24 Vdc/45 W	24 Vdc/30 W
Dimensions W x D x H (mm)	149x268x139	149x268x87	149x268x104	149x268x52
Shaker load	40-250 g	40-250 g	-	-

- 1) Measured in well
- 2) Data refer to 96 well round bottom deep well plate at 15 °C ambient temperature
- 3) Data refer to 96 well flat bottom microplate at 15 °C ambient temperature

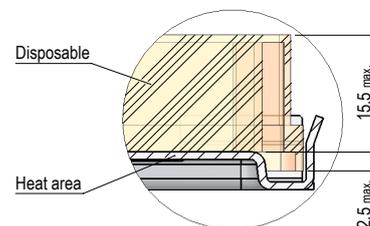
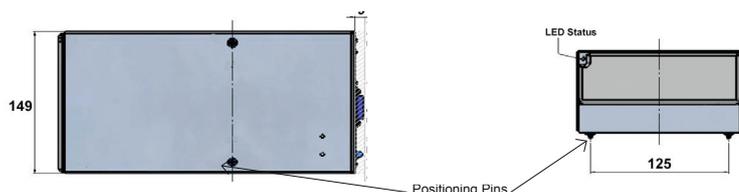


7300003 Incubator MP



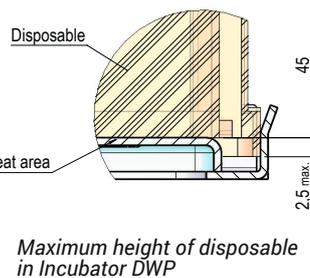
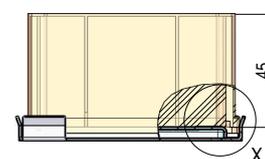
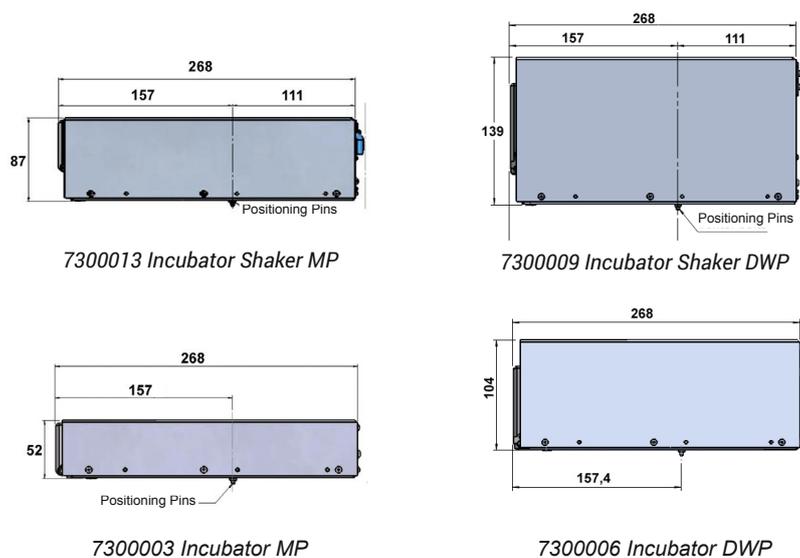
7300003 Incubator MP top view, drawer open

Footprint of all models



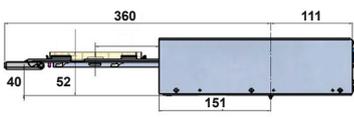
Maximum height of disposable in Incubator MP

Height

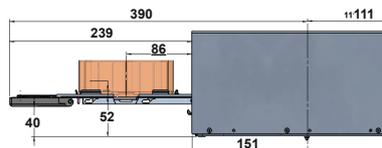


Maximum height of disposable in Incubator DWP

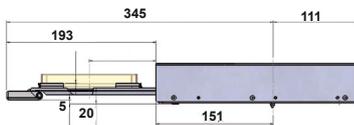
Drawer dimensions



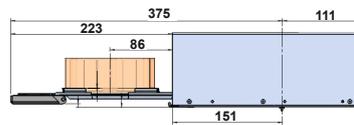
7300013 Incubator Shaker MP



7300009 Incubator Shaker DWP



7300003 Incubator MP



7300006 Incubator DWP

Accessories

Product	Article No.	
Power Supply FSP-180 AAA	2400121	supplies power for 2 Incubator Shaker DWP or 3 Incubator Shaker MP or 4 Incubator DWP or 6 Incubator MP Dimensions: 134 x 91 x 19

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