Single Plate Incubators
Incubator MP, DWP
Incubator Shaker MP, DWP

Benefits
- Superior heating ramps
- Excellent temperature accuracy
- Best temperature uniformity
- Compact design
- Easy integration

Function
- Heating
- Shaking
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 an 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° up to 37° 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.

Features

All Incubator models:
- Stackable to form towers, no additional fixation needed, different devices stackable
- Devices are individually & independently controlled (master-slave principle)
- 90° turning of the lid 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 micro plates and deep well 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

<table>
<thead>
<tr>
<th>Product</th>
<th>Part No.</th>
<th>Temperature range</th>
<th>RPM</th>
<th>Amplitude</th>
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</thead>
<tbody>
<tr>
<td>Incubator Shaker DWP</td>
<td>7300009</td>
<td>ambient +5K to +80°C</td>
<td>400 - 1.800</td>
<td>0 - 3 mm</td>
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<tr>
<td>Incubator Shaker MP</td>
<td>7300013</td>
<td>ambient +5K to +80°C</td>
<td>400 - 1.800</td>
<td>0 - 3 mm</td>
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<tr>
<td>Incubator DWP</td>
<td>7300006</td>
<td>ambient +5K to +80°C</td>
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<tr>
<td>Incubator MP</td>
<td>7300003</td>
<td>ambient +5K to +80°C</td>
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Main Specifications

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

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

Footprint of all models

Height

7300013 Incubator Shaker MP

7300003 Incubator MP

Drawer dimensions

7300013 Incubator Shaker MP

7300009 Incubator Shaker DWP

7300006 Incubator DWP

Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Article No.</th>
<th>Supplies power for 2 Incubator Shaker DWP or 3 Incubator Shaker MP or 4 Incubator DWP or 6 Incubator MP.</th>
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<tr>
<td>Power Supply FSP-180 AAA</td>
<td>2400121</td>
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