

# Incubator shaker

## For Big Kahuna and Junior

Inheco incubated shakers can be integrated into Big Kahuna and Junior. The shakers can serve both as a single device and can be stacked in a tower to increase sample throughput. Users have precise control of temperature and several shaking settings. Inheco shakers are compatible with SLAS-listed microplates, including those with flat bottoms and PCR plates.



### Specifications

#### Incubator shaker (PN: V158217)

Description	Specification
Limits for ambient operating temperature	15–30 °C
Load of the shaker platform	40–250 g
Number of devices in one stack	5 maximum

#### Shaker functionality

Description	Specification
Amplitude range	0–3 mm
Speed range	6.6–30 Hz (400–1800 rpm)
Speed precision	±2 Hz
Shaker movement	North/south, east/west, round, figure eight
Shaker movement accuracy (from setting)	<ul style="list-style-type: none"> <li>• Amplitude accuracy ±15%</li> <li>• Phase shift accuracy ±11 °</li> </ul>

## Operational ranges

Description	Specification
Temperature range	<ul style="list-style-type: none"> <li>• Room temperature + 5–80 °C (only for shaking for 1 h)</li> <li>• Room temperature + 10–80 °C (for shaking &gt;1 h)</li> </ul>
Temperature accuracy (target compared to actual)	<ul style="list-style-type: none"> <li>• ±1 °C at 20 °C</li> <li>• ±1 °C at 37 °C</li> <li>• ±1.5 °C at 60 °C</li> <li>• ±2 °C at 80 °C</li> </ul>
Temperature uniformity (maximum difference between highest and lowest temperature in a plate)	<ul style="list-style-type: none"> <li>• ±0.9 °C at 37 °C</li> <li>• ±1.4 °C at 60 °C</li> <li>• ±1.8 °C at 80 °C</li> </ul>
Evaporation in unsealed plates	25% maximum loss of liquid after 4 h at 37 °C
Heat up time	Maximum 15 min when starting temp is 15.6 °C, target temp is 37 °C and volume is 280 µL/well. Measured in Greiner flat bottom plate.



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