

Applications

Why use a combined heater-shaker?

When you have limited deck space it helps to have devices that offer flexibility and more than one function – as long as you can be sure of excellent performance. Heated shakers allow you to shake heated samples without transferring them, ensuring minimal heat loss and faster processing time.

What to look for in a combined heater-shaker?

Both heating and shaking should be accurate and uniform for every sample. Even heating, safe clamping and wide choice of disposables are important in many processes. Depending on your requirements, you may want to choose a heater shaker which can handle heavier loads, or which offers a choice of shaking patterns.

- **Load** – Handling the heaviest load you are likely to require
- **Shaking options** – Speed, pattern and amplitude (for linear shaking, see our Teleshake 95 Classic)
- **Disposable option** – Do you need active clamping, flexibility to use different disposables including vials and reservoirs, or to be able to use lidded plates?
- **Temperature uniformity** – Delivering identical temperature across the entire block, with identical results for samples in the middle or on the edge of the block, and throughout the run
- **Temperature accuracy** – Ensuring accurate and stable, reproducible temperatures for the duration of the run, and for every sample in the block
- **Small footprint** – Delivering the required performance while taking up as little space on deck as possible

Use of the Teleshake 95 AC USB

The Teleshake 95 AC USB is integrated with liquid handling workstations, in combination with reader and robotic arm, including in PCR and NGS.

Technology

Shaking

The Teleshake 95 AC USB shakes using an electromagnetic motor

- Orbital shaking pattern
- Shaking speed up to 3,000 rpm
- Load up to 1 kg
- 2 or 3 mm shaking amplitude (see product variant)
- Anti-spillage
- Anti-vibration
- Ideal frequency for 96 & 384 plates
- Automated clamping mechanism for secure shaking
- A wide range of adapter plates

Heating

The Teleshake 95 AC USB heats using a heating foil.

- Temperature range: from ambient +5K to +125°C
- Accuracy at 37°C target temperature $\pm 0.3^\circ\text{C}$
- Uniformity at 37°C target temperature $\pm 0.2^\circ\text{C}$

Controller

The integrated controller removes the need for extra electronics on or off deck and includes an LED status indicator.

Software

API available. The Inheco Teleshake 95 AC USB is quick to connect, direct to your desktop computer, and ready for future developments in your lab.

Start-Up Software

The “Teleshake (95) AC USB Device Manager” facilitates the discovery and management of devices on the Microsoft Windows operating system through its Plug 'n Play capability, ensuring devices are instantly recognized and integrated.

Verification

The Inheco measurement plate (IMP) is a stand-alone verification tool which enables wireless verification of temperature, humidity and shaking pattern. So, when long term consistency and accuracy are critical, you can easily monitor and measure the performance of your Inheco devices.