



Retractable foot casters
allow easy manipulation
in lab.

MaxQ 5000 Shaker
Cat. No. SHKE5000

Thermo Scientific MaxQ 5000 Incubated and Refrigerated Floor Shakers

- Easy-access side drain system permits easy clean up of spills.
- Drip pan under platform contains spills.
- Retractable foot casters allow easy positioning in lab.
- Foot pedal opens lid for hands free operation.
- Choice of analog or digital operating systems.
- Five year warranty on parts, one year labor and **LIFETIME** on drive mechanism.

Product Description

- Wide temperature range, 10°C above ambient to 60°C on incubated models and 15°C below ambient to 60°C on refrigerated models.
- Large viewing window.
- Optional access ports for probes, thermocouple or sensors.

Operation

- Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
- Monitor and control chamber temperature range with $\pm 0.1^\circ\text{C}$ accuracy at 37°C .

Analog Operating Systems

- Variable speed control from 40 to 400 rpm, controlled by a rotary dial.
- Integrated tachometer monitors and displays speed in rpm to guarantee an accurate setting.
- Easy-to-read LED digital temperature display.
- Operates in continuous mode or set timer from 1 to 60 minutes.

Digital Operating Systems

- Variable speed control from 15 to 500 rpm.
- Continuous/timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes.
- View speed, operating time and temperature simultaneously on three individual LED displays.
- Visual/audible alarms alert you to temperature deviations. Heat turns off if temperature deviates $\pm 1^\circ\text{C}$ of set point.
- Shaker shuts down and visual/audible alarms signal if unit operates $\pm 10\%$ of set speed, preventing shaker from walking.
- User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardized.
- Unbalanced load sensor stops platform motion when excess vibration is detected and visual/audible alarms signal until condition is corrected.
- Soft start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure.
- Retains parameters during power failure and restarts unit automatically after power is restored.

Safety

- Over-temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.

Applications

- Cell culture
- Solubility studies
- Extraction procedures
- Plant growth
- General mixing
- Protein expression
- Bacterial suspensions
- Staining and destaining
- Washing procedures
- Hybridizations
- Plasmid purification

Thermo Scientific MaxQ 5000

Ordering information

For a complete system order: 1. Shaker 2. Platform 3. Clamps



Easy-access drain system offers convenience in draining and disinfecting the system.



Using the built-in foot pedal, you can open the door to transfer vessels, hands free.

| Cat. No. | Speed Range (rpm) | Orbit Diameter In. (cm) | Maximum Load Lb. (kg) | Temperature Range and Accuracy | Overall Dimensions | | | Power | Shipping Weight Lb. (kg) |
|-----------------------------------|-------------------|-------------------------|-----------------------|---|--------------------|------------|------------|----------------|--------------------------|
| | | | | | In. (cm) Length | Width | Height | | |
| Incubated Floor Shaker—Analog | | | | | | | | | |
| SHKA5000 ^{1,3} | 40–400 | 1 (2.54) | 75 (34) | 10°C Above Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 120V, 50/60 Hz | 476 (215.9) |
| SHKA5000-1CE ^{1,2,3} | 40–400 | 1 (2.54) | 75 (34) | 10°C Above Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 240V, 50/60 Hz | 476 (215.9) |
| Refrigerated Floor Shaker—Analog | | | | | | | | | |
| SHKA5000-7 ^{1,3} | 40–400 | 1 (2.54) | 75 (34) | 15°C Below Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 120V, 50/60 Hz | 512 (232.2) |
| SHKA5000-8CE ² | 40–400 | 1 (2.54) | 75 (34) | 15°C Below Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 240V, 50/60 Hz | 512 (232.2) |
| Incubated Floor Shaker—Digital | | | | | | | | | |
| SHKE5000 ^{1,3} | 15–500 ±1 rpm | 1 (2.54) | 75 (34) | 10°C Above Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 120V, 50/60 Hz | 476 (215.9) |
| SHKE5000-1CE ^{1,2,3} | 15–500 ±1 rpm | 1 (2.54) | 75 (34) | 10°C Above Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 240V, 50/60 Hz | 476 (215.9) |
| Refrigerated Floor Shaker—Digital | | | | | | | | | |
| SHKE5000-7 ^{1,3} | 15–500 ±1 rpm | 1 (2.54) | 75 (34) | 15°C Below Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 120V, 50/60 Hz | 512 (232.2) |
| SHKE5000-8CE ² | 15–500 ±1 rpm | 1 (2.54) | 75 (34) | 15°C Below Ambient to 60°C; ±0.1°C at 37°C in Flask | 32 (81.3) | 41 (104.1) | 41 (104.1) | 240V, 50/60 Hz | 512 (232.2) |

¹ CUL, ² CE, ³ UL

Accessories

| Cat. No. | Description |
|-----------|--|
| 30115BI | Universal 30" x 18" (76.2 x 45.7 cm) Platform |
| SHK5000-6 | Stainless-Steel Shelf for Chamber L – 33.25" (84.5 cm) W – 4.0" (10.2 cm) |

Note: Optional gassing manifold enables direct gassing into flasks for anaerobic cultures. Contact customer service at 800-553-0039 for more information.

Test tube rack clamps, see Accessories on page 13

CLAMPS FOR UNIVERSAL PLATFORM

| Cat. No. | Vessel Size | Maximum No. of Vessels per Platform 30 x 18 in. (76.2 x 45.7 cm) |
|----------|--------------------------------|---|
| 30175 | Microplate/Deep Well Plate | 18 |
| 30154BI | 250-ml Flask | 24 |
| 30155 | 300-ml Flask | 20 |
| 30156BI | 500-ml Flask | 18 |
| 30157BI | 1-L Flask | 12 |
| 30158 | 2-L Flask | 6 |
| 30159 | 4-L Flask | 6 |
| 30160 | 6-L Flask | 3 |
| 30161 | 2500-ml Low Form Culture Flask | 3 |
| 30162 | 2800-ml Fernbach Flask | 5 |