Panasonic

Compact & High-Speed Orbital Shaker
MIR-S100

Incubation

Orbital shaker for cultures

Quiet, low-vibration operation

Shaking speed
50 to 500 rpm

Quiet, smooth and fast.
The Panasonic MIR-S100 orbital shaker delivers superior performance and functions in a compact, low-vibration design.

- Low vibration, low noise
- Compact design, intelligent operation
- Easy installation in Panasonic incubator or growth chamber

MIR-S100

Easy operation with MIR/MLR models

inCu saFe
COPPER ALLOY STAINLESS

Copper-enriched Stainless Steel Platform

This shaker can be installed in the MIR-154 incubator (see above photo) and also in other models (MIR-254, MIR-554 and MLR-351). For details, see overleaf.

MIR-S100

Compact, high-speed orbital shaker with thin design and low center of gravity delivers low-vibration, low-noise operation.

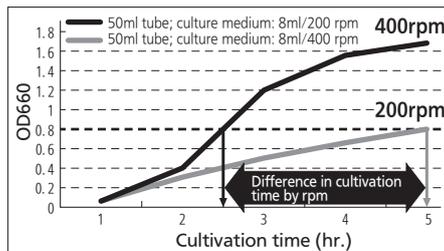## Features

Quiet, low-vibration operation
Thin design with a low center of gravity enables low-vibration, low-noise operation.

High-speed shaking
The MIR-S100 offers high-speed shaking from 50 to 500 rpm, which significantly reduces waiting time for cultures.

E. coli bacteria proliferation comparison
E. coli bacteria transformation test in which bacteria cultivation continues until OD660 turbidity factor reaches 0.8.
Cultivation time: approx. 5 hours at 200 rpm; approx. 2.5 hours at 400 rpm

Bacteria sample: IFO3972; Culture medium: LB; Cultivation temperature: 37℃

Auto limit (Patent Pending)
Automatically limits the speed when abnormally high vibration is detected. LED indicates when auto limit is selected and flashes when in operation.

Easy operation with MIR/MLR models
Can be installed in the MIR-154/254/ 554 and MLR-351. Control panel located in center of unit enables checking of indicators through the window of the MIR/MLR.

No. of units that can be installed	
MIR-154	1 unit
MIR-254	2 units
MIR-554	2 units
MLR-351	2 units

*The optional Mounting Kit is required for installation. Please refer to the instruction manual for details before use.

- **Soft start**
  Gradually accelerates until reaching the preset number of revolutions so that samples inside flasks and test tubes are not spilled or foamed. Three levels of acceleration speed can be selected.

- **Timer**
  Indicates time of operation from 0 to 99.9 hours in increments of 0.1 hour (6 minutes).

- **Integrated operating time display**
  Displays the integrated operating time (which can be checked in the function mode).

- **Key lock**
  Locks the keys on the control panel to avoid accidental function selection.

- **Auto recovery after power interruption**
  Automatically recovers after power interruption, and indicates that power interruption has occurred.

- **Speed error alarm**
  Indicates an error when the number of revolutions does not reach or exceeds the preset value.

- **Motor overload protection circuit**
  Detects over-current and automatically stops operation. Indicates an error when overload is applied to the motor.

- **Sturdy stainless steel finish**
  Equipped with a cover made of stainless steel with hair line finish to facilitate cleaning.

Control panel

Display of revolution speed and time — AUTO LIMIT indicator lamp — Numeric value shift key — ENT key
START/STOP key — RPM indicator lamp — SELECT key — TIME indicator lamp — SET key — Digit shift key

Specifications

Product name	Orbital shaker
Model number	**MIR-S100**
Exterior dimensions (W x D x H)*1	410 x 305 x 120 mm
16.1 x 12.0 x 4.7 inch
Casing	Main body:
Baked-on acrylic finish galvanized steel
Cover:
Stainless steel SUS304 with hair line finish
Shaking platform dimensions (W x D)	380 x 250 mm
14.9 x 9.8 inch
Shaking platform	Copper-enriched stainless steel (sold separately)
Shaking method	Orbiting motion
Amplitude (orbiting motion diameter)	20 mm
0.8 inch
Shaking speed	50 to 500 rpm
Allowable load weight	5 kg (11 lbs.)
Number of acceptable flasks	100 ml Erlenmeyer flask: 15*
500 ml Erlenmeyer flask: 6
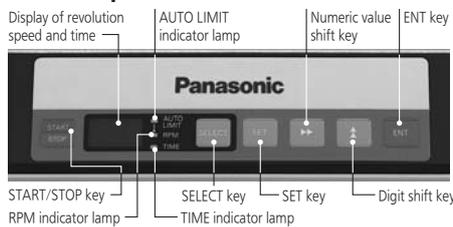| Display unit	Three-digit digital LED (speed/time changeable)
Motor	Brushless DC motor
Ambient service condition	0 to 60℃
Net weight	15 kg (33 lbs.)

* MIR-38PFT
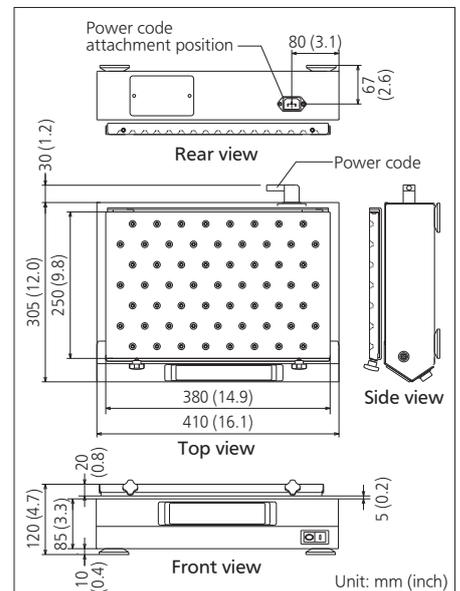- Appearance and specifications are subject to change without notice.
*1 Exterior dimensions of main cabinet only. See dimension drawings showing handles and other external projections.

Dimensions

Power code attachment position — 80 (3.1) — 67 (2.6) — 30 (1.2)
Rear view — Power code
305 (12.0) — 250 (9.8)
380 (14.9)
410 (16.1)
Top view — Side view
20 (0.8) — 120 (4.7) — 85 (3.3) — 10 (0.4) — 5 (0.2)
Front view
Unit: mm (inch)

Options

Shaking platform

MIR-38PFN (uses US standard screws)
Threaded hole diameter: 10 – 32UNF
Threaded hole pitch (longitudinal): 34.85 mm (1.37")
Threaded hole pitch (lateral): 20.65 mm (0.81")

MIR-38PFT (uses metric screws)
Threaded hole diameter: 10 – 32UNF
Threaded hole pitch (longitudinal): 27.5 mm (1.08")
Threaded hole pitch (lateral): 27.5 mm (1.08")

Clamps for flasks

MIR-51FC for 50ml flask

MIR-301FC for 300ml flask

MIR-101FC for 100ml flask

MIR-201FC	for 200ml flask
MIR-501FC	for 500ml flask
MIR-1001FC	for 1000ml flask
MIR-2001FC	for 2000ml flask

Test tube rack
MIR-204SC
for various tubes

Mounting kit
MIR-15FP
for use with MIR-154/254/ 554 and MLR-351

Data acquisition system **MTR-5000-PW**
Interface board **MTR-L03-PW** or **MTR-480-PW**

*The platform also accomodates clamps and accessories manufactured by other companies.

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