

## SHAKERS

- MINI SHAKER
- MEDIUM SHAKER:
  - MEDIUM SHAKER
  - MULTI SHAKER
  - COMBINATION SHAKER
- OPTIONS:
  - SHAKER REMOTE CONTROLLER
  - STACKABLE SHAKERS
- ROCKER
- VERTEX MIXER

### MINI SHAKER

NB-101S



### SHAKER REMOTE CONTROLLER

NB-101S RC  
NB-101M RC



### MEDIUM SHAKER

NB-101M



### MULTI SHAKER

NB-101MT



### STACKABLE SHAKERS

NB-M4S



### COMBINATION SHAKER

NB-101MC



### ROCKER

NB-104



### VORTEX MIXER

NB-105V



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# MINI SHAKER (NB-1015)

- This is Compact Size Shaker with benefits such as small foot print, easy to move.
- Built-in Plate Type BLOC motor allows its height lower and it minimize vibration and noise.
- Despite compact size, shaking is powerful and work place is large to load various vessels.



NB-101S

## SHAKER REMOTE CONTROLLER



NB-101RC  
For use in CO<sub>2</sub> Incubator

### Accessories

|                               |                 |           |           |  |
|-------------------------------|-----------------|-----------|-----------|--|
|                               |                 |           |           |  |
| Spring Rack                   | Microplate Rack | 2 STAIRS  | Tube Rack |  |
|                               |                 |           |           |  |
| Holder Platform<br>100ml x 16 | 250ml x 9       | 500ml x 5 | Holders   |  |



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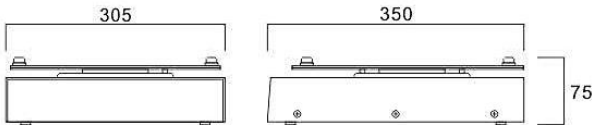
MINI SHAKER

Features

- Plate Type Brushless DC motor provides low noise, no vibration and maintenance free system.
- Artificial intelligence system which maintains precise speed and adjust time controlled by MICOM.
- LED indicates temperature, speed, time and state of power failure.
- Possible to operate up to 300rpm even though stroke is 25mm
- Easy-moveable using, Possible to operate in Cold Chamber and Incubators(4℃~60℃)
- Easy to change accessory platform.
- Excellent resistance to High Humidity
- The shaker motor(NB-101SRC) are covered with epoxy to protect electric part from high moisture.



Plate type Blushless DC MOTOR provides Low noise, No vibration.



Specification

| Items           | Unit | NB-101S                                    |
|-----------------|------|--------------------------------------------|
| Motion          |      | Orbital                                    |
| Speed           |      |                                            |
| range           | rpm  | 30 to 300 rpm                              |
| increment       |      | 1 rpm                                      |
| Time            | rpm  |                                            |
| range           |      | Continuous or up to 47h 59min              |
| accuracy        |      | ±1%                                        |
| increment       |      | 1 minute                                   |
| Control         |      | Microprocessor Digital PID                 |
| Orbit Diameter  | mm   | 25mm                                       |
| Motor           |      | Plate Type Brushless DC Motor/Direct Drive |
| Operating panel |      | Touch Button                               |
| Display         |      | 5 digit LED                                |
| Platform size   | mm   | 300(W)x330(D)mm with Silicon Rubber Pad    |
| Dimmensions     |      | 305(W)x350(D)x75(H)mm                      |
| Weight          | kg   | 5Kg                                        |
| Power           |      | 110/220V, 50/60Hz, 15W                     |



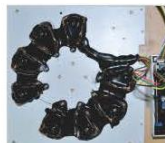
## MEDIUM SHAKERS (NB-101M/NB-101MT/NB-101MC)

- Magnetic Induction Drive & Brush Less DC Motor provides ideal shaking function for cell culture, sample mixtures, suspension, micro biology, chemistry.
- Enjoy its stable shaking and quite operation along with small foot print.

### Special Features



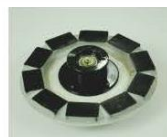
Plate type Brushless DC MOTOR provides No Vibration, No Dust & Low Noise.



Moisture-proof coated finishing.



Selection Lever



Magnetic

### STACKABLE SHAKERS NB-M4S

### COMBINATION SHAKER

Combination Shakers are possible to operate dual function of orbital and reciprocating at same time. The shaker is used for Mixing reagent, physical clinic, shaking culture, cell culture.



Shaking Type

### SHAKER REMOTE CONTROLLER

Ane into Incubator Shaker used to facilitate the adjustment controls were isolated from the outside.

\*Applicable to all of shakers.



NB-101MT



NB-101MC



NB-101M



NB-101RC

### MULTI SHAKER

Multi-shaker provides dual function to choose either orbital motion or reciprocating motion which is used in Mixing reagent, physical clinic, shaking culture, cell culture.



Shaking Type

### MEDIUM SHAKER

Medium Shakers are used for the experiment of the pathology clinics, cells/microbes cultivation and extractions, planet tissue section mounting.



Shaking Type

### Features

- Plate Type Brushless DC motor provides low noise, no vibration and maintenance free system.
- Artificial intelligence system which maintains precise speed and adjust time controlled by MICOM.
- LED indicates temperature, speed, time and state of power failure.
- Possible to operate up to 400rpm even though stroke is 30mm (400rpm subject to option)
- Possible to operate in Cold Chamber and Incubators (4℃~60℃)
- Easy to change accessory platform.

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MEDIUM SHAKERS



Specification

| Items           | Unit  | NB-101M                                         | NB-101MT                           | NB-101MC                      |
|-----------------|-------|-------------------------------------------------|------------------------------------|-------------------------------|
| Motion          |       |                                                 | Orbital & Reciprocating            | Orbital & Reciprocating       |
| Speed range     | rpm   | 30 to 300 rpm<br>(up to 400rpm:high speed type) | 30 to 300 rpm                      | 30 to 300 rpm                 |
| accuracy        | %     | ±1%                                             | ±1%                                | ±1%                           |
| increment       | rpm   | 1 rpm                                           | 1 rpm                              | 1 rpm                         |
| Time range      | min   | Continuous or up to 47h 59min                   | Continuous or up to 47h 59min      | Continuous or up to 47h 59min |
| accuracy        | %     | ±1%                                             | ±1%                                | ±1%                           |
| increment       | min   | 1 minute                                        | 1 minute                           | 1 minute                      |
| Control         |       | Microprocessor Digital                          | Microprocessor Digital             | Microprocessor Digital        |
| Mortion control |       | —                                               | Lever Operate                      | Lever Operate                 |
| Operating panel |       | Touch Button                                    | Touch Button                       | Touch Button                  |
| Display         |       | 5 Digit LED                                     | 5 Digit LED                        | 5 Digit LED                   |
| Motor           |       | Plate Type B/L DC Motor                         | Plate Type B/L DC Motor            | Plate Type B/L DC Motor       |
| Drive system    |       | Beltless Direct Drive                           | Beltless Direct Drive              | Beltless Direct Drive         |
| Orbit Diameter  | mm    | 30mm                                            | 30mm                               | 30mm                          |
| Platform size   | mm,ea | 460(W)x455(D)mm<br>with Rubber Pad              | 460(W)x455(D)mm<br>with Rubber Pad | 220(W)x455(D)mmx2             |
| Dimmensions     | mm    | 465(W)x540(D)x125(H)                            | 465(W)x540(D)x145(H)               | 465(W)x540(D)x195(H)          |
| Holder/Rack     |       | Rubber Pad                                      | Silicon Rubber Pad                 | Spring Wire Rack              |
| Weight          | kg    | 29kg                                            | 35kg                               | 38kg                          |
| Power           | V/Hz  | 110/220V, 50/60Hz, 20W                          | 110/220V, 50/60Hz, 30W             | 110/220V, 50/60Hz, 30W        |

Accessories

Detail about accessories are written at the end of the section.



Platform  
(Tube Rack & Holder)

NB-101M  
NB-101MT



Spring rack

NB-101M  
NB-101MT



Holder Platform  
250ml x 23

NB-101M  
NB-101MT



2000ml x 4

NB-101M  
NB-101MT



2 Stairs

NB-101M  
NB-101MT



Holders

NB-101M  
NB-101MT





ROCKER (NB-104)



Features

- No vibration, No malfunction
- Safe using for Petri-dish, culture bottle and flask
- Using 4 ~ 35 rpm, setting up to 3hour

Specification



| Items         | Unit | NB-104                      |
|---------------|------|-----------------------------|
| Speed range   | rpm  | 4 to 35rpm                  |
| Angle range   | °    | ±7° from horizontal         |
| Time range    | hour | Up to 3 hours or continuous |
| Platform size | mm   | 290(W)x200(D)mm             |
| Capacity      |      | 96 well micro-platex4ea     |
| Dimensions    | mm   | 305(W)x255(D)x165(H)mm      |
| Power         | V/Hz | 110/220V, 50/60Hz, 35W      |
| Weight        | kg   | 6kg                         |





VORTEX MIXER (NB-105V)



- Optional Accessory
- NB-105V01    Mixing Cup
  - NB-105V02    Platform Head
  - NB-105V03    Micro plate Kit
  - NB-105V04    Multi sample plate Kit



Features

- Automatic start when vortex is touched on the mixing cup.
- Constant on after starting
- Adjustable RPM up to 1500rpm
- Wide option for accessories
- High quality design for safety
- CE marked

Specification

| Items          | Unit | NB-105V                    |
|----------------|------|----------------------------|
| Speed range    | rpm  | 0 to 1500rpm               |
| Operation Mode |      | Touch On & Constant On     |
| Material       |      | Aluminum Die-casting & ABS |
| Head           | mm   | Rubber Mixing Cup          |
| Dimensions     | kg   | 130(W)x155(D)x155(H)mm 3Kg |
| Power          | V/Hz | AC220V, 0.14A, 60Hz        |



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