14 Hotplates & Stirrers

> Hotplates

- > Hotplate Stirrers
- > Magnetic Stirrers
- > Overhead Stirrers

General Applications

Hotplates

Acid and base digestions, trace metal analysis, sample drying, general reagent heating, heating TLC plates, evaporation

Hotplate Stirrers

Various heating and mixing applications that require accuracy, stability, and repeatability.

Magnetic Stirrers

Crystallization, solvent evaporation, chemical reactions, titration, distillation, media dissolution, food processing

Overhead Stirrers

Chemical and petrochemical applications, beverage production, dairy production, food processing, sugar and candy production



| | Product Name | Hotplates | | Hotplat (E | Hotplate Stirrers (Basic) | | te Stirrers _{vanced}) |
|------------------|---|-------------------------|-----------------------|-----------------------|------------------------------|--|------------------------------------|
| Model | | T-S, R | T-Q | TM-SB, RB | TM-Q | TS-S | TS-Q |
| Тор | Material | Ceramic coated aluminum | | Ceramic coate | ed aluminum | Ceramic coate | ed aluminum |
| plate | Dimension (Ø or WxD, mm) | 140, 170 Round top | 180x180 Square top | 140, 170 Round top | 180x180 Square top | 140, 170 Round top | 180x180 Square top |
| Temp. | Max. temp. (°C/°F) | 350 / 662 | | 350 / 662 | | 350 / 662 | |
| Control | Heating power (W) | 600 | 800 | 600 | 800 | 600 | 800 |
| | Speed range (rpm) | - | | 50 to 2000 | 50 to 2000 | | |
| Speed control | Stirring position (250ml flask) | - | | 1 | | 1 | |
| | Capacity (L, H20) | - | | 20 | | 20 | |
| | Display & Control interface | LED digital (0.1° | C resolution) | Analog-knob | | LED digital (0.1 ^{°C} resolution) | |
| | PID feedback control | 0 | | - | | 0 | |
| Control | Timer | Wait on/off | | - | | Wait on/off | |
| | Auto-tuning | 0 | | - | | 0 | |
| | External temperature probe | - | | - | - | | 250°C) |
| | Over temp. limit | 0 | | 0 | | 0 | |
| | Over current limit | 0 | | 0 | | 0 | |
| Safety | Hot top warning lamp at 50 $^\circ\!\!\!\!{}^\circ\!\!\!{}^\circ$ | 0 | | 0 | | 0 | |
| | High/Low temperature limit | 0 | 0 | | - | | |
| | Protection class (DIN EN 60529) | - | | - | | - | |



| | Product Name | Overhead Stirrers (Analog) | Overhead Stirrers (Digital) | Overhead Stirrers (Advanced) | | |
|---------|--|---|---|--|---|--|
| Model | | MSA | MSD | MSH | | |
| | Speed range (rpm) | 80 to 2000 | 80 to 2000 | 50 to 1200 | 50 to 2000 | |
| | Stirring capacity, Max. (L, H20) | 20 | 20 | 100 | 60 | |
| | Torque, Max. (N·cm) | 19 | 19 | 41.6 | 20.8 | |
| Speed | Motor rating output (W) | 40 | 40 | 48 | | |
| control | Viscosity, Max. (cP) (using 3-bladed propeller impeller, Ø50) | 5,000 (~2000 rpm) 10,000 (~1200 rpm) 30,000 (~300 rpm) 50,000 (~200 rpm) | 5,000 (~2000 rpm) 10,000 (~1200 rpm) 30,000 (~300 rpm) 50,000 (~200 rpm) | 5,000 (~1200 rpm) 10,000 (~1200 rpm) 30,000 (~1200 rpm) 50,000 (~700 rpm) | 5,000 (~2000 rpm) 10,000 (~1600 rpm) 30,000 (~600 rpm) 50,000 (~300 rpm) | |
| | Chuck range(mm) | 3 to 10 | 3 to 10 | 3 to 10 | | |
| | Display & Control interface | Touch FND, Analog knob | Touch FND, Digital knob | Touch LCD, Digital knob | | |
| | PID feedback control | 0 | 0 | 0 | | |
| Control | Timer | - | Wait off | Wait off | | |
| | External controller | - | - | 0 | | |
| | Computer interface | - | USB port | USB port | | |
| | JeioTech network | - | 0 | 0 | | |
| | Over temp. limit | 0 | 0 | 0 | | |
| | Over current limit | 0 | 0 | 0 | | |
| Safety | Motor temp. warning | - | 0 | 0 | | |
| | Best effort run | - | 0 | 0 | | |
| | Protection class (DIN EN 60529) | IP 30 | IP 30 | IP 30 | | |

| Hotplate Stirrers (Multi-position) | | Magnetic Stirrers (Scale) | | Magnetic Stirrers (Digital) | Magnetic Stirrers (Multi-position) |
|---------------------------------------|---------------------|------------------------------------|------------|--|---|
| MS-33MH | MS-53MH | MS-B | MS-T | MS-G | MS-M |
| Aluminum | | Polypropylene with non-slip sil | icon cover | Polypropylene with non-slip silicon cover | Aluminum |
| 385x328 | 385x493 | 120, 170, 200 | 115, 165 | 170, 220 | - |
| 120 / 248 | | - | | - | - |
| 600 | 1000 | - | | - | - |
| 30 to 2000 | | 150 to 2500 | | 30 to 2000 | 30 to 2000 |
| 9 | 15 | 1 | | 1 | 2x3, 3x2, 3x3, 5x1, 5x2, 5x3 |
| 0.5 per each po | bint | 2, 4, 5 | | 4, 5 | 250ml per each point |
| VFD, LED posit | ion indicator, Knob | No display, Knob | | VFD, Touch buttons, Knob | VFD, LED position indicator, Touch buttons, Knob |
| 0 | | - | | 0 | 0 |
| Wait off | | - | | Wait off | Wait off |
| - | | - | | - | - |
| - | | - | | - | - |
| 0 | | - | | - | - |
| 0 | 0 | | | 0 | 0 |
| - | | - | | - | - |
| - | | - | | - | - |
| - | | IP42 | | IP42 | IP 21 |

Hotplates



Superior temperature control with various safety functions.

Two different shapes of top plate are available for your optimum use



T-17S/14R

T-18Q

Optional accessories see page 174-175

- Heating bath (for T-S/R)
- Transparent shield (for T-S/R)
 Support rods

Performance & Convenience

- Microprocessor PID temperature control.
- Auto-tuning and temperature calibration functions.
- Multi-functional temperature control modes. (optimal / fast / slow / user / point)
- Optimum heating level is adjustable from 0 to 100%.
- Integrated design of the heater and the top plate provides exceptional heat transfer rate and quick heat up capability.
- Precise temperature is set by digital display and optimum heating level is adjustable.
- · Advanced dual wait on/off timer modes.
- User can set timer to starts immediately after the timer setting or only after reaching the set temp.
- Separate operation RUN/STOP button.
- Non-slip heating bath with concavo-convex bottom prevents unintentional slips of the bath. (except for T-18Q, optional)
- A transparent safety shield protects users from liquid splashes. (except for T-18Q, optional)
- Support rod allows for diverse flexibility in configuring other test equipment and accessories. (optional)

Safety

- Built in thermal shut off and current limit protection.
- High and low temperature limit setting for user convenience and safety.
- Hot top warning indicator for preventing accidental injuries.
- Keypad lock function prevents accidental changes during operation.

| | Model | T-14S | T-14R | T-17S | T-17R | T-18Q | | | |
|---|-------------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|--|--|--|
| | Temperature range (°c / °F) | Max. 350 / 662 | | | | | | | |
| Lleating | Control | Feedback control v | Feedback control with PID | | | | | | |
| Heating | Display | LED digital (0.1℃ re | solution) | | | | | | |
| | Heating power (W) | 600 | | 800 | | | | | |
| | Hot top indicator (°c / °F) | Warning lamp (50 / | 122) | | | | | | |
| Safety | Over temp. | Top plate / Main be | ody / PCB | | | | | | |
| | Over current | Current limit prote | ction | | | | | | |
| Timer | | 2 type, 1min. to 9 | 9 hr. 59 min. | | | | | | |
| Load, Max. (kg / lbs) | | 25 / 55.1 | | | | | | | |
| Shape | | Round type Squ | | | | | | | |
| Top plate | Material | Ceramic coated al | | | | | | | |
| Top plate | Dimension (Ø or WxD) (mm / inch) | 140 / 5.5 | | 170 / 6.7 | | 180x180 / 7.08x7.08 | | | |
| | Shape | Straight body | Round handles | Straight body | Round handles | Straight body | | | |
| Body | Material | Aluminum | | | | | | | |
| body | Dimension (WxDxH) (mm / inch) | 161x290x100 / 6.34x11.42x3.94 | 210x294x99 / 8.27x11.57x3.90 | 191x330x101 / 7.52x12.99x3.98 | 240x324x100 / 9.45x12.76x3.94 | 209x326x102 / 8.22x12.83x4.0 | | | |
| Net weight (k | g / Ibs) | 2.2/4.9 | 2.4 / 5.3 | 2.9/6.4 | 3 / 6.6 | 3.8 / 8.37 | | | |
| Electrical requirements (230V, 50/60Hz) | | 3.0 |) A | | 4.0 A | | | | |
| Cat. No. | | AAH35015K | AAH35115K | AAH35025K | AAH35125K | AAH35035K | | | |
| Electrical req | uirements (120V, 60Hz) | 5.0 |) A | | 6.7A | | | | |
| Cat. No. | | AAH35013U | AAH35113U | AAH35023U | AAH35123U | AAH35033U | | | |

* Permissible environmental conditions: temperature (5 - 40°C) and relative humidity (up to 80%).

* CSA except for T-18Q. * RoHS for T-14S.



Hotplate Stirrers (Basic)





Performance & Convenience

- Integrated design of the heater and the top plate provides exceptional heat transfer rate and quick heat up capability.
- Fast and precise stirring operations are enabled by BLDC motor and special magnet with extremely strong magnetic coupling power.
- Instant halt of the stirring operation due to the exceptionally fast response characteristics.
- Smooth-start mechanism provides virtually no decoupling of stir bars even with viscous media.
- Large stirring capacity up to 20 liter in case of water.
- Non-slip heating bath with concavo-convex bottom prevents unintentional slips of the bath. (except for TM-18Q, optional)
- A transparent safety shield protects users from liquid splashes. (except for TM-18Q, optional)
- Support rod allows for diverse flexibility in configuring other test equipment and accessories. (optional)

Safety

- Built in thermal shutdown and current limit protection.
- · Hot top warning Indicator for preventing accidental injuries.

Easy to control with simple dial knobs for general lab heating and stirring applications.





TM-14RB/17SB TM-18Q

ries • Heating bath (forTM-SB/RB)

- Optional accessories see page 174-175
- Heating bath (for TM-SB/RB)
 Transparent shield (for TM-SB/RB)
 - Support rods, Magnetic stirring bars

| | Model | TM-14SB | TM-14RB | TM-17SB | TM-17RB | TM-18Q | | |
|---|--|----------------------------------|--------------------------------|----------------------------------|----------------------------------|---------------------------------|--|--|
| | Temperature range (°C / °F) | Max. 350 / 662 | | | | | | |
| Heating | Control | Scale | | | | | | |
| | Heating power (W) | 600 | | 800 | | | | |
| | Speed range (rpm) | 50 to 2,000 | | | | | | |
| Stirring | Capacity (L / cu ft, H ₂ O) | 20/0.71 | | | | | | |
| Sunnig | Magnetic bar, Max. (ØxL, mm / Inch) | 8 x 40 / 0.31 x 1.57 | | | | | | |
| | Hot top indicator (°c / °F) | Warning lamp (50 / 1 | 22) | | | | | |
| Safety | Over temp. | Top plate / Main bo | dy / PCB | | | | | |
| | Over current | Current limit protec | tion | | | | | |
| Motor | | BLDC motor | | | | | | |
| Load, Max. | (kg / lbs) | 25/55.12 | | | | | | |
| | Shape | Round type Square type | | | | | | |
| Top plate | Material | Ceramic coated aluminum | | | | | | |
| TOP plate | Dimension (Ø or WxD) (mm / inch) | 140 / 5.51 | | 170 / 6.69 | | 180x180 / 7.08x7.08 | | |
| | Shape | Straight body | Round handles | Straight body | Round handles | Straight body | | |
| Body | Material | Aluminum | | | | | | |
| БОЦУ | Dimension (WxDxH) (mm / inch) | 161x290x100 / 6.34x11.42x3.94 | 210x294x99 / 8.27x11.57x3.9 | 191x330x101 / 7.52x12.99x3.98 | 240x324x100 / 9.45x12.76x3.94 | 209x326x102 / 8.22x12.83x4.0 | | |
| Net weight | | 2.8/6.17 | 3 / 6.61 | 3.5 / 7.72 | 3.6 / 7.94 | 3.8/8.37 | | |
| Electrical requirements (230V, 50/60Hz) | | 3. | 0 A | | 4.0 A | | | |
| Cat. No. | | AAH34215K | AAH34315K | AAH34225K | AAH34325K | AAH34235K | | |
| Electrical re | quirements (120V, 60Hz) | 5. | D A | 6.7A | | | | |
| Cat. No. | - | AAH34213U | AAH34313U | AAH34223U | AAH34323U | AAH34233U | | |

* Permissible environmental conditions: temperature (5-40°C) and relative humidity (up to 80%).

* CSA except for TM-18Q. * RoHS for TM-14SB

Hotplate Stirrers (Advanced)



Digital heating and stirring control with high advanced features such as auto-tuning and various control modes.





TS-17S

TS-18Q

Standard accessories see page 174-175

• Temperature probe (PT100, max.250℃)

Performance & Convenience

- Microprocessor PID temperature control.
- · Feedback control allows constant stirring speed.
- Auto-tuning and temperature calibration functions.
- Multi-functional temperature control modes. (optimal / fast / slow / user / point)
- Optimum heating level is adjustable from 0 to 100%.
- Integrated design of the heater and the top plate provides exceptional heat transfer rate and quick heat up capability.
- Fast and precise stirring operations are enabled by BLDC motor and special magnet with extremely strong magnetic coupling power.
- Smooth-start mechanism provides virtually no decoupling of stir bars even with viscous media.
- Instant halt of the stirring operation.
- Precise temperature is set by digital display and optimum heating level is adjustable.
- Advanced dual wait on/off timer modes.
 User can set timer to starts immediately after the timer setting or only after reaching the set temp.
- Separate operation RUN/STOP button.
- Provided temperature probe detects the actual temperature of media in real time. (PT100, max. 250°C, SN-8-4 connector sensor)

Safety

- Hot top warning Indicator, built in thermal shut off, current limit protection.
- High and low temperature limit setting for user convenience and safety.

| | Model | TS-14S | TS-17S | TS-18Q | | | |
|---------------|--|---------------------------------|-------------------------------|------------------------------|--|--|--|
| | Temperature range (°c / °F) | Max. 350 / 662 | | | | | |
| Heating | Control | Feedback control with PID | | | | | |
| пеациу | Display | LED digital (0.1℃ resolution) | | | | | |
| | Heating power (W) | 600 | 800 | | | | |
| | Speed range (rpm) | 30 to 2,000 | | | | | |
| Stirring | Capacity (L / cu ft, H ₂ O) | 20 / 0.71 | | | | | |
| | Magnetic bar, Max. (ØxL, mm / Inch) | 8 x 40 / 0.31 x 1.57 | | | | | |
| | Hot top indicator (°c / °F) | Warning lamp (50 / 122) | | | | | |
| Safety | Over temp. | Top plate / Main body / PCB | | | | | |
| | Over current | Current limit protection | | | | | |
| Motor | | BLDC motor | | | | | |
| Timer | | 2 type, 1min. to 99 hr. 59 min. | | | | | |
| Load, Max | (kg / lbs) | 25 / 55.1 | | | | | |
| | Shape | Round type | | Square type | | | |
| Top plate | Material | Ceramic coated aluminum | | | | | |
| | Dimension (Ø or WxD) (mm / inch) | 140 / 5.51 | 170 / 6.69 | 180x180 / 7.08x7.08 | | | |
| | Shape | Straight body | | | | | |
| Body | Material | Aluminum | | | | | |
| | Dimension (WxDxH) (mm / inch) | 161x290x100 / 6.34x11.42x3.94 | 191x330x101 / 7.52x12.99x3.98 | 209x326x102 / 8.22x12.83x4.0 | | | |
| Net weight | (kg / lbs) | 2.8/6.17 | 3.5 / 7.72 | 3.8 / 8.37 | | | |
| Electrical re | equirements (230V, 50/60Hz) | 3.0 A | 4.0 | A | | | |
| Cat. No. | | AAH34415K | AAH34425K | AAH34435K | | | |
| Electrical re | equirements (120V, 60Hz) | 5.0 A | 6.7A | | | | |
| Cat. No. | | AAH34413U | AAH34423U | AAH34433U | | | |

* Permissible environmental conditions: temperature (5-40°C) and relative humidity (up to 80%).

* CSA except for TS-18Q. * RoHS except for TS-17S, 18Q.

Hotplate Stirrers (Multi-position)

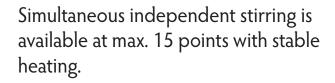


Performance & Convenience

- Ideal for the multiple sample testing under the same condition.
- Maximum 15 independently controlled stirring positions on one heated top plate.
- Speed and time setting modes allowing various ways of multi-position stirring to meet users' demands: single point, multiple point, whole row, whole column, etc.
- Integrated design of the heater and the top plate provides exceptional heat transfer rate and quick heat up capability.
- Fast and precise stirring operations are enabled by BLDC motor and special magnet with extremely strong magnetic coupling power.
- Smooth-start mechanism provides virtually no decoupling of stir bars even with viscous media.
- Instant halt of the stirring operation.
- · Easy-to-read VFD and intuitive control panel.
- Bright and vivid LED stirring position indicating lamps and heating operation lamp for stable operations.
- · High heat transfer aluminum top-plate.

Safety

- Unit is safely designed to protect internal components from accidental spills.
- Non-slip silicon plate mat is attached on the top plate to prevent unintended slips
- Built in thermal shut off and current limit protection.





MS-33MH / MS-53MH

Optional accessories see page 174-175

- Magnetic stirring bars
- Plastic retrievers

| | Model | MS-33MH | MS-53MH | | | |
|---------------------|---|--------------------------------|--------------------------------|--|--|--|
| | Temperature range (°c / °F) | Max. 120 / 248 | | | | |
| Heating | Control | Scale | | | | |
| | Heating power (W) | 600 | 1000 | | | |
| | Speed range (rpm) | 30 to 2,000 | | | | |
| | Control | Feedback control with PID | | | | |
| | Stirring position | 9 | 15 | | | |
| | Stirring point distance (WxD, mm / inch) | 117x90/4.61x3.54 | | | | |
| Stirring | Timer | 1min. to 99 hr. 59 min. | | | | |
| | Motor | BLDC motor | | | | |
| | Motor rating input / output (W) per each point | 2.9/1.6 | | | | |
| | Magnetic bar, Max. (ØxL, mm / inch) | 8x30 / 0.31x1.18 | | | | |
| Safety | Over temp. | Top plate | | | | |
| Salety | Over current | Current limit protection | | | | |
| Load, Max (kg / Ibs | 5) | 30 / 66.14 | | | | |
| Top plate | Material | Aluminum | | | | |
| top plate | Dimension (WxD) (mm / inch) | 385x328 / 15.16x12.91 | 385x493 / 15.16x19.41 | | | |
| Body | Material | Powder coated steel | | | | |
| Bouy | Dimension (WxDxH) (mm / inch) | 395x450x104 / 15.55x17.72x4.09 | 395x614x104 / 15.55x24.17x4.09 | | | |
| Net weight (kg / lb | s) | 10 / 22.05 | 15 / 33.06 | | | |
| Electrical require | ments (230V, 50/60Hz) | 4.1 A | 5.8 A | | | |
| Cat. No. | | AAHK34015K | AAHK34025K | | | |
| Electrical require | ments (120V, 60Hz) | 8.0 A | 11.2 A | | | |
| Cat. No. | | AAHK34013U | AAHK34023U | | | |

Powerful magnets and motors guarantee a high-speed and a goodmanagement of the devices.











MS-M with optional plate mat

All models (MS-B/T, MS-G, MS-M)

- Ergonomic designed, lightweight, easy to operate, and low profile.
- Best-in-the-class with broad speed range and suitable for high-speed rotation experimental environment.
- Spark-less, silent and durable BLDC motor.
- Wide top plate.
- \circ Two non-slip silicon plate covers (white & black) provided for MS-B, T, G.
- Non-slip strength rubber feet.
- · Strong magnetic coupling to ensure constant stirring.

Digital models (MS-G)

- Digital PID feedback control for reproducible stirring results.
- Convenient program control.
- Gradual start-up to protect users against splashing of samples.
- Bright and vivid VFD and responsive touch buttons.
- Easy-settable digital timer (1 min. to 99hr. 59min.)
- M10 threaded hole to hold a support rod.

Multi-position models (MS-M)

- Digital PID feedback control for every single point, separately.
- Speed and time setting modes allowing various ways of multi-position stirring to meet users' demands: single point, multiple point, whole row, whole column, etc.
- Easy-to-read VFD and intuitive control panel.
- Bright and vivid LED position indicating lamps.
- Non-slip see-through silicon plate mat. (optional)
- Chemical-resistant #304 grade stainless steel top-plate.

Safety

- Unit is safely designed to protect internal components from accidental spills.
- Built-in thermal shutdown and current limit protection.

Standard accessories (except for MS-M) Plate covers(white & black)Magnetic stirring bar

Optional accessories see page 174-175

Silicone plate matsPlastic retrievers



| | Model | | MS-12B | MS-12T | MS-17B | MS-17T | MS-22B | |
|---|------------------|------------------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| | Speed control | | Electronic speed c | ontrol | | | | |
| Stirring capacity (Liter, H ₂ O) | | y (Liter, H₂O) | 2 | | 4 | | 5 | |
| Taskaisal | Speed range (rp | om) | 150 to 2,500 | | | | | |
| Technical data | Speed display | | None | | | | | |
| data | Motor rating in | put / output (W) | 2.9 / 1.6 | | | | | |
| | Magnetic bar, N | Max. (Ø×L) (mm / inch) | 8×30/0.31×1.18 | 8×30/0.31×1.18 | 8×40 / 0.31×1.57 | 8×30/0.31×1.18 | 10×50 / 0.39×1.97 | |
| | Load, max (kg / | lbs) | 15 / 33.07 | 10 / 22.05 | 20 / 44.09 | 20 / 44.09 | 25 / 55.12 | |
| Top plate | Material | | Polypropylene with non-slip silicon cover | | | | | |
| top plate | Dimension (Ø, m | nm / inch) | 120 / 4.72 | 115 / 4.53 | 170 / 6.69 | 165 / 6.5 | 220 / 8.66 | |
| | Body shape | | Round type | Triangle type | Round type | Triangle type | Round type | |
| | Body material | | Polypropylene | | | | | |
| General | Dimension (W×E | D×H) (mm / inch) | 130×133×65 / 5.1×5.2×2.56 | 181×176×64 / 7.1×6.9×2.5 | 180×186×65 / 7.1×7.3×2.6 | 246×243×64 / 9.7×9.6×2.5 | 230×235×65 / 9.1×9.3×2.6 | |
| data | Net weight (kg / | lbs) | 0.6 / 1.32 | , | 0.9 / 1.98 | , | 1.1 / 2.43 | |
| | Electrical requi | rements | AC 100 ~ 240V, 50 / 60Hz with power adapter | | | | | |
| | Power consum | ption (W) | 5 | | 6 | | | |
| | Protection class | s (DIN EN 60529) | IP42 | | | | | |
| | Persian blue | KR plug | AAH330115BK | AAH333115BK | AAH330215BK | AAH333215BK | AAH330315BK | |
| Cat. No. | i ersiali blue | US plug | AAH330115BU | AAH33316BU | AAH330215BU | AAH33326BU | AAH330315BU | |
| Gat. NO. | Orange | KR plug | AAH330115YK | AAH333115RK | AAH330215YK | AAH333215RK | AAH330315YK | |
| | Jiange | US plug | AAH330115YU | AAH33316RU | AAH330215YU | AAH33326RU | AAH330315YU | |

% RoHS except for MS-T.% FDA establishment registered company. FDA listed products.



| | Model | | MS-17G | MS-22G | | |
|-------------------|--------------------------|------------------------|---|--------------------------|--|--|
| | Speed control | | Feedback control with PID | | | |
| | Stirring capacity | y (Liter, H2O) | 4 | 5 | | |
| . | Speed range (rp | m) | 30 to 2,000 | | | |
| Technical data | Speed display | | VFD | | | |
| uala | Motor rating in | out / output (W) | 2.9 / 1.6 | | | |
| | Magnetic bar, N | lax. (Ø×L) (mm / inch) | 8×40 / 0.31×1.57 | 10×50 / 0.39×1.97 | | |
| | Load, Max (kg / II | bs) | 20 / 44.09 | 25 / 55.12 | | |
| Tan alata | Material | | Polypropylene with non-slip silicon cover | | | |
| Top plate | Dimension (Ø, mm / inch) | | 170 / 6.69 | 220 / 8.66 | | |
| | Body material | | Polypropylene | | | |
| | Dimension (W×D |)×H) (mm / inch) | 210×280×72 / 8.3×11×2.8 | 260×355×72 / 10.2×14×2.8 | | |
| General | Net weight (kg / | lbs) | 1.35 / 2.98 | 1.75 / 3.86 | | |
| data | Electrical requir | rements | AC 100 ~ 240V, 50 / 60Hz | | | |
| | Power consump | otion (W) | 6 | | | |
| | Protection class | (DIN EN 60529) | IP42 | | | |
| | Persian blue | KR plug | AAH331215BK | AAH331315BK | | |
| Cat. No. | reisian blue | US plug | AAH331215BU | AAH331315BU | | |
| Gat. 140. | Orongo | KR plug | AAH331215YK | AAH331315YK | | |
| | Orange | US plug | AAH331215YU | AAH331315YU | | |

 $\,$ * FDA establishment registered company. FDA listed products.

| | Model | MS-23M | MS-32M | MS-33M | MS-51M | MS-52M | MS-53M |
|-----------|---|-------------------------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|-------------------------------|
| | Speed control | Feedback contro | l with PID | | | | |
| | Stirring Position | 6 | 6 | 9 | 5 | 10 | 15 |
| | Speed range (rpm) | 30 to 2,000 | | | | | |
| Technical | Stirring point distance (W×D) (mm / inch) | 117×170 / 4.6×6.69 | 117×90 / 4.6×3.54 | 117×90 / 4.6×3.54 | 90/3.54 | 117×90/ 4.6×3. | 54 |
| data | Timer | 1 min. to 99 hr. 5 | 59 min. | | | | |
| | Speed display | VFD | | | | | |
| | Motor rating input / output (W) per each point | 2.9 / 1.6 | | | | | |
| | Load, Max (kg / lbs) | 30 / 66.14 | | | | | |
| | Dimension (W×D×H) (mm / inch) | 377×436×82 / 14.8×17.2×3.2 | 254×436×82 / 10×17.2×3.2 | 377×436×81 / 14.8×17.2×3.2 | 131×603×82 / 5.2×23.7×3.2 | 254×602×82 / 10×23.7×3.2 | 377×599×82 / 14.9×23.6×3.2 |
| General | Weight (kg / lbs) | 6 / 13.23 | 5 / 11.02 | 7 / 15.43 | 4 / 8.82 | 8 / 17.64 | 11 / 24.25 |
| data | Electrical requirements | AC 100 ~ 240V, 5 | 50 / 60Hz | | | | |
| uata | Power consumption (W) | 45 | 45 | 54 | 45 | 85 | 135 |
| | Protection class (DIN EN 60529) | IP 21 | | | | | |
| Cat. No. | KR plug | AAH332115K | AAH332215K | AAH332315K | AAH332415K | AAH332515K | AAH332615K |
| Gat. NO. | US plug | AAH332115U | AAH332215U | AAH332315U | AAH332415U | AAH332515U | AAH332615U |

* FDA establishment registered company. FDA listed products.

CE

Magnetic stirring bars



Octahedral magnetic stirring bar



Cylindrical magnetic stirring bar



Oval magnetic stirring bar

| Cat. No. | Ø (mm / inch) | L (mm / inch) |
|-----------|---------------|---------------|
| BCW1513 | 8 / 0.31 | 13 / 0.51 |
| BCW1515 | 8 / 0.31 | 15 / 0.59 |
| BCW1522 | 8 / 0.31 | 22 / 0.86 |
| BCW1525 | 8 / 0.31 | 25/0.98 |
| BCW1528 | 8 / 0.31 | 28/0.10 |
| BCW1538 | 8 / 0.31 | 38 / 1.49 |
| BCW1541 | 8 / 0.31 | 41 / 1.61 |
| BCW1551 | 8 / 0.31 | 51/2.00 |
| BCW155110 | 10 / 0.39 | 51 / 2.00 |

| Cat. No. | Ø (mm / inch) | L (mm / inch) |
|----------|---------------|---------------|
| BCW11138 | 8 / 0.31 | 13 / 0.51 |
| BCW11156 | 6 / 0.23 | 15 / 0.59 |
| BCW11208 | 8 / 0.31 | 20/0.78 |
| BCW11258 | 8 / 0.31 | 25 / 0.98 |
| BCW11308 | 8 / 0.31 | 30 / 1.18 |
| BCW1140 | 8 / 0.31 | 40 / 1.57 |
| BCW1150 | 8 / 0.31 | 50 / 1.96 |

| Cat. No. | Ø (mm / inch) | L (mm / inch) |
|-----------|---------------|---------------|
| BCW1610 | 5 / 0.19 | 10 / 0.39 |
| BCW1615 | 6 / 0.23 | 15 / 0.59 |
| BCW1620 | 10 / 0.39 | 20/0.78 |
| BCW162510 | 10 / 0.39 | 25 / 0.98 |
| BCW1630 | 16 / 0.63 | 30 / 1.18 |
| BCW1635 | 16 / 0.63 | 35 / 1.38 |
| BCW1640 | 20/0.78 | 40 / 1.57 |
| BCW1650 | 20/0.78 | 50 / 1.96 |
| | | |

Plastic retrievers



Plastic retriever (PP)

| Cat. No. | Ø (mm / inch) | L (mm / inch) | |
|----------|-----------------------|---------------|--|
| BCW41300 | 10 / 0.39 300 / 11.81 | | |
| BCW41350 | 10 / 0.39 | 350 / 13.77 | |
| BCW41450 | 10 / 0.39 | 450 / 17.71 | |



Plastic retriever (PTFE)

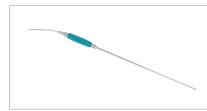
| Cat. No. | Ø (mm / inch) | L (mm / inch) |
|----------|---------------|---------------|
| BCW4150 | 10 / 0.39 | 150 / 5.90 |
| BCW4250 | 10 / 0.39 | 250 / 9.84 |
| BCW4350 | 10 / 0.39 | 350 / 13.77 |
| BCW4450 | 10 / 0.39 | 450 / 17.71 |



Support rod / Clamp holders

| Support rod (M10) | Clamp holder (C-10) | Clamp holder (C-7) | Clamp holder (C-5) |
|-------------------|---|--------------------|--------------------|
| Cat. No. | Description | | |
| MTT0132 | Support rod, M10 (Ø12×400mm / Ø0.47×15.75") | | |
| AAA37512 | Clamp holder, C-10 (Al body, Ø17mm / Ø0.66") | | |
| AAA37513 | Clamp holder, C-7 (Al body, Ø12mm / Ø0.47") | | |
| AAA37514 | Clamp holder, C-5 (PP body, Ø12mm / Ø0.47") | | |
| BEA1000014 | 2 Prong clamp (60mm / 2.36 [°] grip) | | |

for Hotplates / Hotplate Stirrers





Temperature probe

Heating bath

Transparent safety shield

Hotplates & Stirrers

| Cat. No. | Description | Suitable for | |
|----------|--|-----------------------------|--|
| AAA34501 | Temperature Probe (PT 100, Max. 250°C, SN-8-4 connector sensor) | TO assist | |
| AAA34502 | Temperature Probe (PT 100, Max. 350°c, SN-8-4 connector sensor) | TS series | |
| HPS0012 | Heating Bath | T-14S/R, TM-14SB/RB, TS-14S | |
| HPS0015 | Heating Bath | T-17S/R, TM-17SB/RB, TS-14S | |
| HPS0059 | Transparent Safety Shield (PC) | T-14S/R, TM-14SB/RB, TS-14S | |
| HPS0039 | Transparent Safety Shield (PC) | T-17S/R, TM-17SB/RB, TS-17S | |
| HPS0137 | Sensor Holder (PP body, Hole 1: Ø11mm / Ø0.43", Hole 2: Ø10mm / Ø0.39", Hole 3: Ø4.2mm / Ø0.16") | TS series | |

for Magnetic Stirrers





Plate covers (black & white)

Silicone pad

Power divider (5 channels1)

| Cat. No. | Description | Suitable for |
|----------|--|--------------|
| MTT0144 | Plate cover (White color, Silicone Ø115mm / Ø4.53") | MS-12T |
| MTT0146 | Plate cover (White color, Silicone Ø165mm / Ø6.49") | MS-17T |
| MTT0002 | Plate cover (White color, Silicone Ø120mm / Ø4.72") | MS-12B |
| MTT0003 | Plate cover (White color, Silicone Ø170mm / Ø6.69") | MS-17B/G |
| MTT0004 | Plate cover (White color, Silicone Ø220mm / Ø8.66") | MS-22B/G |
| MTT0143 | Plate COVer (Black color, Silicone Ø115mm / Ø4.53°) | MS-12T |
| MTT0145 | Plate COVEr (Black color, Silicone Ø165mm / Ø6.49") | MS-17T |
| MTT0005 | Plate cover (Black color, Silicone Ø120mm / Ø4.72") | MS-12B |
| MTT0006 | Plate cover (Black color, Silicone Ø170mm / Ø6.69") | MS-17B/G |
| MTT0007 | Plate cover (Black color, Silicone Ø220mm / Ø8.66") | MS-22B/G |
| MTS0015 | Silicone pad (355×475×1mm / 13.98×18.70×0.04") | MS-53M |
| MTS0016 | Silicone pad (235×475×1mm / 9.25×18.70×0.04") | MS-52M |
| MTS0017 | Silicone pad (115×475×1mm / 4.53×18.70×0.04") | MS-51M |
| MTS0041 | Silicone pad (235x310x1mm / 9.25x12.20x0.04") | MS-32M |
| MTS0042 | Silicone pad (355x310x1mm / 13.98x12.20x0.04") | MS-23M/33M |
| MTT0001 | Power adapter (100~240V, 50/60Hz) | MS-12B/T, |
| AAH33501 | Power divider (5 channels) ¹⁾ with M10 rod, adapter(100~240V, 50/60Hz), five DC plugs | MS-17B/T |

1) Power supply to max. five units at the same time.

Overhead Stirrers (Analog)



Powerful stirring and simple operation with sustainable economic benefits.



MSA-0420

Optional accessories see page 180-181

- ImpellersStands, Support rods
- Clamps, Stirring seals

Performance & Convenience

- Years of vibration-free and silent operation.
 Equipped with a maintenance-free BLDC motor to generate smooth, quiet, and yet powerful stirring.
- Powerful torque capable of handling high viscosity tasks.
- Maintenance of constant motor speed by PID feedback control system even under conditions of changing viscosity.
- Prevention of accidental spills or splashes thanks to microprocessor controlled smooth start and stop functions.
- Designed for simple and quick operation.
- Well illuminated digital display panel with sensitive touch buttons.
- Set/present rpm are visible together on one screen.
- Compact and slim head design for diverse flexibility in configuring other test equipment and accessories. (optional)

Safety

- Sturdy aluminum main body efficiently absorbing and emitting the heat generated by the motor.
- Safety features against overload and overheating for continuous operation.

| | Model | MSA-0420 |
|--|-----------------------------|--|
| Speed control | | PID feedback control |
| Speed range (rpm) | | 80 to 2,000 |
| Chuck range (mm / i | nch, dia) | 3 to 10 / 0.1 to 0.4 |
| Stirring capacity, N | 1ax. (L, H ₂ O) | 20 |
| Viscosity, Max. (cP) | 1) | 5,000 (~2,000rpm) / 10,000 (~1,200rpm) / 30,000 (~300rpm) / 50,000 (~200rpm) |
| Torque, Max. (N·cm) | | 19 |
| Motor rating input | / output (W) | 70 / 40 |
| Material | Body / Cover / Motor | Powder coated aluminum / Polypropylene / BLDC |
| Dimension | Overall (W×D×H) (mm / inch) | 75x215x150/ 2.9x8.5x5.9 |
| Dimension | Net weight (Kg / Ibs) | 2.8 / 6.2 |
| Protection class (DI | N EN 60529) | IP30 |
| Electrical requirem | ents (230V 50/60Hz) | 0.5A |
| Cat. No. | | AAH373325K |
| Electrical requirements (120V 60Hz) 0.5A | | 0.5A |
| Cat. No. | | AAH373325U |

1) Silicone oil with using 3-bladed propeller impeller(Ø50) under room temperature of $26^\circ C$, 60% RH.

* Permissible environmental conditions: temperature (5-40°C) and relative humidity (up to 80%).

* Main body comes together with chuck handle and attaching rod.

* Above specifications can be changed without prior notice.



Overhead Stirrers (Digital)



Performance & Convenience

- · Years of vibration-free and silent operation.
- Equipped with a maintenance-free BLDC motor to generate smooth, quiet, and yet powerful stirring.
- Powerful torque capable of handling high viscosity tasks.
- Maintenance of constant motor speed by PID feedback control system even under conditions of changing viscosity.
- Best effort function intelligently manages its stirring speed to keep stirring even workload is out of its capacity.
- Prevention of accidental spills or splashes thanks to microprocessor controlled smooth start and stop functions.
- Well illuminated digital display panel with sensitive touch buttons.
 Set/present rpm, power ratio (%) and run time are visible together on one screen.
- Stirring directions are selectable depending on each impeller's shape.
- Remote control and monitor of lab equipment through mobile devices. (Android base only)
- JeioTech network can be configurated by installing an included software(Jeiotechsoft). You can monitor your lab equipment through your mobile device regardless of place and time.
- Built-in USB port for external control and data collection.
 Software CD and USB cable are provided as standard.
- Compact and slim head design for diverse flexibility in configuring other test equipment and accessories. (optional)

Safety

- Sturdy aluminum main body efficiently absorbing and emitting the heat generated by the motor.
- Safety features against overload and overheating for continuous operation.
- Keypad lock function prevents accidental changes.

Ideal for digital controlled high performance stirring task.

Intelligent speed controller enables reproducible results under varying viscosity condition.



REMOTE CONTROL with your MOBILE DEVICE see page 8-9



MSD-0420

Standard accessories see page 180-181

- Impellers, Stands, Support rods
- Clamps, Stirring seals

| | Model | MSD-0420 |
|-------------------------------------|---|--|
| Speed contro | 1 | PID feedback control |
| Speed range (| rpm) | 80 to 2,000 |
| Chuck range (| mm / inch, dia) | 3 to 10 / 0.1 to 0.4 |
| Stirring capac | ity, Max. (L, H ₂ O) | 20 |
| Viscosity, Max | K. (cP) ¹⁾ | 5,000 (~2,000rpm) / 10,000 (~1,200rpm) / 30,000 (~300rpm) / 50,000 (~200rpm) |
| Torque, Max. | (N·cm) | 19 |
| Motor rating i | lotor rating input / output (W) 70 / 40 | |
| Material | Body / Cover / Motor | Powder coated aluminum / Polypropylene / BLDC |
| Dimension | Overall (W×D×H) (mm / inch) | 75x215x150 / 2.9x8.5x5.9 |
| Dimension | Net weight (Kg / Ibs) | 2.8 / 6.2 |
| Protection cla | SS (DIN EN 60529) | IP30 |
| Electrical requ | irements (230V 50/60Hz) | 0.5A |
| Cat. No. | | AAH373225K |
| Electrical requirements (120V 60Hz) | | 0.5A |
| Cat. No. | | AAH373225U |

1) Silicone oil with using 3-bladed propeller impeller(Ø50) under room temperature of 26°C, 60%RH.

* Permissible environmental conditions: temperature (5-40°C) and relative humidity (up to 80%).

* Main body comes together with chuck handle and attaching rod.

* Above specifications can be changed without prior notice.

Ideally perform your professional stirring tasks requiring high functionality, safety, and longevity.

Prestige touch LCD controller and remote control systems add it's superiority.



REMOTE CONTROL with your MOBILE DEVICE see page 8-9



Monitor and control overhead stirrers more convenient!



JeiotechsoftM (JeioTech mobile APP)



Bluetooth broadcaster



Remote control with Bluetoothenabled devices. (Android only)

Remote control through Internetenabled devices. (Android only) Anywhere and anytime! Even when

you are out of your country, you can conveniently control and monitor MSH

base on Internet connection.

You can safely monitor and control MSH within Bluetooth-enabled area.

No Internet and Bluetooth connection are required.

With use of this cable type external controller itself, real time external control of MSH without opening the enclosure's door is available.

MSH-0512

Standard accessories see page 180-181

- Bluetooth broadcaster, External controller (cable type)
- · Impellers, Stands, Support rods
- Clamps, Stirring seals





Performance

- · Years of vibration-free and silent operation.
- Equipped with a maintenance-free BLDC motor to generate smooth, quiet, and yet powerful stirring.
- Powerful torque capable of handling high viscosity tasks.
- Maintenance of constant motor speed by PID feedback control system even under conditions of changing viscosity.
- Best effort function intelligently manages its stirring speed to keep stirring even workload is out of its capacity.
- Prevention of accidental spills or splashes thanks to microprocessor controlled smooth start and stop functions.

Convenience

- Touch type LCD controller.
- Various essential information are visible at once and intuitionally controlled.
- Set/present rpm and run time view, simple timer set. (max. 99 hr. 59 min.)
- Varying motor torque is indicated on display in real time.
- Motor temperature condition is indicated on display by three different colors to protect motor.
- Stirring directions are selectable depending on each impeller's shape.
- Remote control and monitor of lab equipment through mobile devices. (Android only)
- JeioTech network can be configurated by installing an included software(Jeiotechsoft). You can monitor your lab equipment through your mobile device regardless of place and time.
- Bluetooth broadcaster(optional) enables remote control and monitor of your lab equipment thought your mobile device within Bluetooth-enabled area.

- Practical external controller. (optional)
- Intuitive and easy control with color touch LCD.
- It enables convenient and safe external control without opening the sash of the fume hood or safety cabinet.
- Built-in USB port for external control and data collection.
- Useful for PC control and data management task.
- Software CD and USB cable are provided as standard.
- Compact and slim head design for diverse flexibility in configuring
 other test equipment and accessories. (optional)

Safety

- Sturdy aluminum main body efficiently absorbing and emitting the heat generated by the motor.
- Safety features against overload and overheating for continuous operation.
- When it comes to heavy workload, it tries to activate best effort function.
- But if it determines that performing the work is harmful for it, than it stops stirring.
- Equipped with a mini fan inside to minimize overheating of the motor.
- Separated adapter from the main body minimizes the risks of electrical hazards to the users.
- Screen lock function prevents accidental changes during operation.

| Model | | MSH-0512 | MSH-0520 | | |
|-----------------------------------|-----------------------------------|---|----------------------|--|--|
| Speed control | | PID feedback control | PID feedback control | | |
| Speed range (rp | m) | 50 to 1,200 | 50 to 2,000 | | |
| Chuck range (mr | m / inch, dia) | 3 to 10 / 0.1 to 0.4 | | | |
| Stirring capacity | γ, Max. (L, H ₂ O) | 100 | 60 | | |
| Viscosity, Max. | (cP) ¹⁾ | 5,000 (~1,200rpm) 5,000 (~2,000rpm) 10,000 (~1,200rpm) 10,000 (~1,600rpm) 30,000 (~1,200rpm) 30,000 (~600rpm) 50,000 (~700rpm) 50,000 (~300rpm) | | | |
| Torque, Max. (N | ·cm) | 41.6 20.8 | | | |
| Motor rating in | rating input / output (W) 71 / 48 | | · | | |
| Material | Body / Cover / Motor | Powder coated aluminum / Polypropylene / B | LDC | | |
| Dimension | Overall (W×D×H) (mm / inch) | 80x185x235 / 3.1x7.3x9.3 | | | |
| Dimension | Net weight (Kg / Ibs) | 3.1 / 6.8 | | | |
| Protection class | (DIN EN 60529) | IP30 | | | |
| Electrical requirements | | AC 100 to 240V, 50/60Hz with power adapter | | | |
| Power consumption (W) 1.5 A 1.5 A | | 1.5 A | | | |
| Cat Na | KR Plug | AAH371415K | AAH371515K | | |
| Cat. No. | US Plug | AAH371415U | AAH371515U | | |

1) Silicone oil with using 3-bladed propeller impeller(Ø50) under room temperature of 26° C, 60%RH.

% Permissible environmental conditions : temperature (5-40°C) and relative humidity (up to 80%).

* Main body comes together with chuck handle and attaching rod.

* Above specifications can be changed without prior notice.

Impellers

Propeller impellers

Standard grade stainless steel with Teflon shaft produces an-axial flow stir between the bot-tom and top levels of a sample with local shearing force. Used at medium or high speeds for mixing normal range level viscosity samples.

Turbine impellers

A radial flowing stir from the top and bottom levels of a sample with a powerful, high shearing turbulent force. Used ideally for the gassing of liquids and mixing medium to high range level viscosity samples.

Half-moon impellers / Centrifugal impellers

Tiltable moon-shaped and blade shaft produces a normal axial flow percentage mixing of samples. Used with round bo-ttom shaped containers, medium mixing speed, and samples ranging from low to medium visco-sity levels.

Anchor impellers / Paddle impellers

An anchored shaft that produces a strong tangential flow with a high shearing percentage force on samples with medium to high viscosity level with speed setting in the low to medium range.

Stainless steel impellers



Blade

(WxH, mm / inch)

50 / 1.97

70/2.76

50 / 1.97 70 / 2.76

100/3.94

40 / 1.57

70/2.76

55 / 2.17 75 / 2.95

100/3.94



Length (mm / inch)

400 / 15.75 400 / 15.75

400 / 15.75

400 / 15.75 400 / 15.75

400 / 15.75

500 / 19.69

500 / 19.69

350 / 13.78

350 / 13.78





Propeller (3-bladed / 4-bladed)

Cat. No.

AAA37521

AAA37522

AAA37523

AAA37532

AAA37533

AAA37562

BEA0570032

Dissolver BEA0570031

Turbine AAA37561

3-bladed propeller

4-bladed propeller AAA37531 50 Turbine / Dissolver

Shaft (Ø, mm / inch)

8/0.31

8/0.31

8/0.31

8/0.31

8/0.31

8/0.31

8/0.31

8/0.31

8 / 0.31

8/0.31

Half-moon / Centrifugal

Anchor / Paddle

| Cat. No. Blade (WxH, mm / inch) | | Shaft (Ø, mm / inch) | Length (mm / inch) |
|------------------------------------|-------------------|-------------------------|-----------------------|
| Half-moon | | | |
| AAA37541 | 65x20 / 2.56x0.79 | 8/0.31 | 300 / 11.81 |
| AAA37542 | 90x25/3.54x0.98 | 8/0.31 | 500 / 19.69 |
| Centrifugal | | | |
| AAA37551 | 50x15 / 1.97x0.59 | 8/0.31 | 500 / 19.69 |
| AAA37552 | 80x15 / 3.15x0.59 | 8/0.31 | 500 / 19.69 |
| Anchor | | | |
| AAA37571 | 45x45 / 1.77x1.77 | 8/0.31 | 300 / 11.81 |
| AAA37572 | 60x60 / 2.36x2.36 | 8/0.31 | 500 / 19.69 |
| Paddle A | | | |
| AAA37581 | 70x70/2.76x2.76 | 8/0.31 | 500 / 19.69 |
| | | | |

PTFE coated impellers



< <

Propeller (4-bladed) / Turbine

Half-moon / Centrifugal

| Cat. No. | Blade (WxH, mm / inch) | Shaft (Ø, mm / inch) | Length (mm / inch) | |
|---------------|---------------------------|-------------------------|-----------------------|---|
| 4-bladed prop | eller | | | 1 |
| BEA0570081 | 50 / 1.97 | 8/0.31 | 500 / 19.69 | E |
| BEA0570082 | 70 / 2.76 | 8/0.31 | 500 / 19.69 | 1 |
| Turbine | | | | E |
| BEA0570131 | 70 / 2.76 | 8 / 0.31 | 500 / 19.69 | F |
| Half-moon | | | | E |
| BEA0570091 | 60x18/2.36x0.71 | 8/0.31 | 500 / 19.69 | F |
| Centrifugal | | | | E |
| BEA0570101 | 76x17 / 2.99x0.67 | 8/0.31 | 500 / 19.69 | |

Anchor (Square / Round)

Paddle / Paddle A

| Cat. No. | Cat. No. Blade (WxH, mm / inch) | | Length (mm / inch) | | |
|-----------------|------------------------------------|--------|-----------------------|--|--|
| Anchor (Square) | | | | | |
| BEA0570111 | 80x50 / 3.15x1.97 | 8/0.31 | 500 / 19.69 | | |
| Anchor (Round) | | | | | |
| BEA0570121 | 80x40 / 3.15x1.57 | 8/0.31 | 500 / 19.69 | | |
| Paddle | | | | | |
| BEA0570141 | 70 / 2.76 | 8/0.31 | 500 / 19.69 | | |
| Paddle A | | | | | |
| BEA0570151 | 78x80/3.07x3.15 | 8/0.31 | 500 / 19.69 | | |

Monitor and control MSH more convenient!

Bluetooth broadcaster for remote control.

Monitor and control MSH through your mobile device with Bluetooth Broadcaster. Anyone can control MSH by android device. Also you can automatically receive safety alarm to your mobile device.



| Cat. No. | Description | |
|----------|--|--|
| AAAQ1012 | Bluetooth broadcaster (2.4GHz ISM band) (W×D×H, 140x54x18mm / 5.5x2.1x0.7") | |

External controller for practical external control.

Real time external monitor and control of the current operating condition without opening the door of the enclosure.

| iui | 1200 |
|------|--------|
| | 1200 |
| | |
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| | |
| | / |
| ACAR | intion |

| Cat. No. | Description | |
|----------|---|--|
| AAA37591 | External controller (3m cable) (W×D×H, 60x16x120mm / 2.4x0.6x4.7″) | |

Stands / Support rods



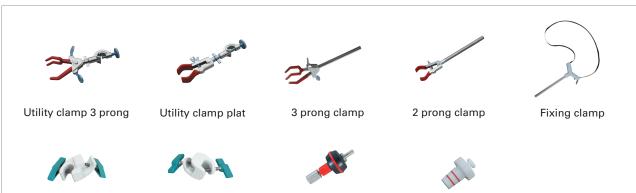


Dial stand / Basic stand 1 with two optional support rods

Basic stand 2 Basic stand 3

| Cat. No. | Description | |
|----------|---|--|
| AAA37501 | Dial stand (W×D×H, 400×400×700 / 15.75×15.75×27.56″) | |
| AAA37502 | Basic stand 1 (W×D×H, 400×400×700 / 15.75×15.75×27.56") | |
| AAA37503 | Basic stand 2 (W×D×H, 300×400×700 / 11.81×15.75×27.56") | |
| AAA37504 | Basic stand 3 (W×D×H, 250×350×700 / 9.84×13.78×27.56") | |
| MSS0051 | Support Rod, M14 (Ø15x500mm / Ø0.59x19.68″) | |
| MSS0052 | Support Rod, M14 (Ø18x500mm / Ø0.71x19.68") | |
| MSS0053 | Support Rod, M14 (Ø20x500mm / Ø0.79x19.68″) | |

Clamps / Others



Clamp holder (C-10)

Clamp holder (C-20)

Flexible coupling

PTFE stirring seals

| Cat. No. | Description | Cat. No. | Description |
|------------|---|------------|---|
| BEA1000001 | Utility clamp 3 prong | AAA37512 | Clamp holder, C-10 (Al body, Ø17mm / 0.67") |
| BEA1000002 | Utility clamp plat | AAA37511 | Clamp holder, C-20 (Al body, Ø27mm / 1.06") |
| BEA1000011 | 3 prong clamp (80mm / 3.15 ^r grip) | BEA0570191 | Flexible coupling |
| BEA1000012 | 3 prong clamp (60mm / 2.36 ^e grip) | | |
| BEA1000013 | 3 prong clamp (20mm / 0.79 [°] grip) | BEA0570161 | PTFE stirring seals (24 / 40) |
| BEA1000014 | 2 prong clamp (60mm / 2.36 ~ grip) | BEA0570162 | PTFE stirring seals (29 / 42) |
| BEA0570181 | Fixing clamp | BEA0570163 | PTFE stirring seals (34 / 45) |