

Laboratory Flask Mixer



LM100/110/200/210 Series

Max. Speed Range 50 ~1000rpm

Max. Torque 0.1N*m



LM100

LM200
with Digital Display

LM Series compact design flask mixer features integrated drive and stirring seal allowing direct installation of flask and stirring in a vacuum and sealed state. No time-consuming shaft alignment required. Its strong stirring power is perfect for samples of high volume and high viscosity.

LM100/110 is designed with manual type rotation speed while LM200/210 is equipped with digital indicator.

- Wide range rotation speed of 50-1000 rpm
- Capable of vacuuming up to 399.9Pa without impairing rotation efficiency
- Directly attachable to a three-neck flask 24/40, 29/42 optional
- Maintenance free and superior DC brushless motor
- Belt drive transmission minimizes noise and vibration
- Variety of stirring shafts and blades available to handle small to large volume samples
- Fluorine rubber seal as standard for shaft seal, superior chemical resistant Teflon® rubber seal available as option
- At the flask joint, FKM o-ring is used as standard, superior chemical resistant Kalrez® o-ring available as option
- Equipped with 24/40 rotary joint, 29/42 optional
- Capable of AC100-240 by changing power cord

Specifications

| Model | LM100 | LM110 | LM200 | LM210 |
|---------------------------|--|---|---|---|
| Operating temp. range | 5°C~35°C | | | |
| Operating speed range*1 | 50~1000rpm | | | |
| Max. torque | 0.1N*m | | | |
| Max. ultimate vacuum | ≤399.9Pa | | | |
| Exterior | PBT /ADC12 (Surface treatment: Baking finish) | | | |
| Motor | DC brushless motor 30 W | | | |
| Power switch | Speed control dial with switch (stepless adjustment) | | | |
| Rotation speed indication | None | | 3 digits ×10 rpm (Digital display) | |
| Operation indicator lamp | LED (Green) | | None (Confirm operation with speed indicator) | |
| Adaptable flask size | 50~5000ml | | | |
| Joint size | TS24/40 | | | |
| Chuck | ø8mm (ø7.9~7.95) | | | |
| Sealing material | PTFE (rotary joint) / FKM (oil seal,o ring) | | | |
| Safety device | Overload protection function*2, coupling cover (hair entanglement prevention structure), slow start function | | | |
| External dimensions | W69 × D108 × H222 mm | | | |
| Power source | Single phase AC100V~AC120V 50/60Hz 1A | Single phase AC200V~AC220V 50/60Hz 1A | Single phase AC100V~AC120V 50/60Hz 1A | Single phase AC200V~AC220V 50/60Hz 1A |
| Power cord | A type 3P (AC115V 50/60Hz) | O type 3P (AC220V 50/60Hz) | A type 3P (AC115V 50/60Hz) | O type 3P (AC220V 50/60Hz) |
| Weight | 700 g (main body only) | | | |
| Included accessories | Hexagon socket head cap screw & wrench, AC adapter, 3m power cord, Coupling cover, handle(arbor), flask clip | | | |
| Operational accessories*3 | Stirring shaft (PTFE, stainless steel, glass), propellers (different types and sizes), stand | | | |

*1 Max. revolutions differ depending on the combination of oil seal + stirring shaft
50~1000rpm: FKM oil seal + PTFE stirring shaft / PTFE oil seal + glass or SUS stirring shaft
50~300rpm: FKM oil seal + glass or SUS stirring shaft / PTFE oil seal + PTFE stirring shaft

*2 When load exceeding maximum torque is applied, current limit circuit automatically controls the current to protect the motor

*3 Sold separately

LM Set Guide

| | |
|---------|---|
| LM-100A | LM-100 SET MAIN BODY, STAND, PTFE STIRRING BAR W/ PROPELLER L450mm×φ50mm, BURETTE CLAMP φ9.5~φ29mm and Double Opening Clamp 3~55mm. |
| LM-110A | LM-110 SET MAIN BODY, STAND, PTFE STIRRING BAR W/ PROPELLER L450mm×φ50mm, BURETTE CLAMP φ9.5~φ29mm and Double Opening Clamp 3~55mm |
| LM-200A | LM-200 SET MAIN BODY, STAND, PTFE STIRRING BAR W/ PROPELLER L450mm×φ50mm, BURETTE CLAMP φ9.5~φ29mm and Double Opening Clamp 3~55mm |
| LM-210A | LM-210 SET MAIN BODY, STAND, PTFE STIRRING BAR W/ PROPELLER L450mm×φ50mm, BURETTE CLAMP φ9.5~φ29mm and Double Opening Clamp 3~55mm |

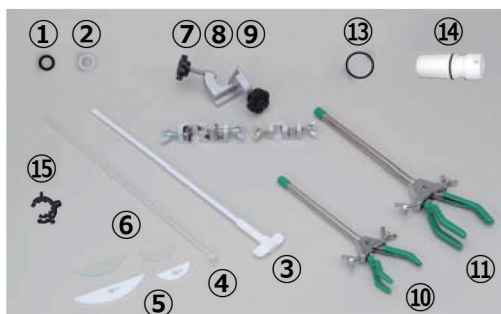


LM200 with BM100 Water Bath



Accessories

| Product code | Model | Product name | No. | Specification | |
|--------------|-------|--------------------------------|----------------------|---|--------|
| 231640 | OLM60 | FKM oil seal | ① | FKM Black, 2pcs/set (standard) | |
| 231641 | OLM62 | PTFE oil seal | ② | Teflon®, 2pcs/set | |
| 231615 | OLM10 | PTFE stirring shaft with blade | ③ | L350×ø30mm, 100 ~ 300mL | |
| 231616 | OLM12 | | | L450×ø30mm, 100 ~ 500mL | |
| 231617 | OLM14 | | | L450×ø50mm, 200 ~ 1000mL | |
| 231618 | OLM16 | | | L450×ø80mm, 300 ~ 1000mL | |
| 231619 | OLM18 | | | L600×ø80mm, 1000 ~ 1500mL | |
| 231620 | OLM20 | | | L600×ø100mm, 1000 ~ 5000mL | |
| 231621 | OLM22 | L600×ø120mm, 3000 ~ 5000mL | Glass stirring shaft | ④ | L350mm |
| 231622 | OLM24 | L400mm | | | |
| 231623 | OLM26 | L530mm | | | |
| 231624 | OLM28 | PTFE half-moon blade | ⑤ | ø40×16×t3mm | |
| 231625 | OLM30 | | | ø50×17×t3mm, 100 ~ 500mL | |
| 231626 | OLM32 | | | ø60×17×t4mm, 500 ~ 5000mL | |
| 231627 | OLM34 | | | ø100×17×t4mm, 1000 ~ 5000mL | |
| 231628 | OLM36 | | | ø125×30×t5mm, separable flask | |
| 231629 | OLM38 | | | ø50×17×t3.3mm, 100 ~ 5000mL | |
| 231630 | OLM40 | Glass half-moon blade | ⑥ | ø80×17×t3.8mm, 500 ~ 5000mL | |
| 231631 | OLM42 | | | | |
| 231632 | OLM44 | Burette clamp (muff) | ⑦ | ø5 ~ ø13mm | |
| 231633 | OLM46 | Burette clamp (muff) | ⑧ | ø6 ~ ø17mm | |
| 231634 | OLM48 | Burette clamp (muff) | ⑨ | ø9.5 ~ ø29mm | |
| 231635 | OLM50 | Double opening clamp | ⑩ | Range 3~55 mm, ø10mm, 50mL~3000mL | |
| 231636 | OLM52 | Double opening clamp | ⑪ | Range 3~80 mm, ø12mm, 50mL~5000mL | |
| 231086 | -- | Y stand | ⑫ | H725×ø25, Leg W400 (Internal 310mm) × 420mm | |
| 231642 | OLM64 | FFKM o ring | ⑬ | Kalrez® 29/42 | |
| 231643 | OLM66 | | | Kalrez® 24/40 | |
| LT00038897 | -- | FKM o ring | ⑭ | 29/42 | |
| LT00038898 | -- | | | 24/40 (standard) | |
| 231639 | OLM58 | 24/40 rotary joint seal set | ⑮ | Set of oil seal, o ring etc. | |
| 231644 | OLM68 | 29/42 rotary joint seal set | | | |
| 231637 | OLM54 | Flask clip | ⑯ | 2 pcs set for 29/42 | |
| 231638 | OLM56 | Flask clip | ⑰ | 2 pcs set for 24/40 | |



O ring and Oil seal Comparison Table of Chemical Resistance

| Chemical | FKM O ring + FKM oil seal (Standard) | FFKM O ring + PTFE oil seal (Option) |
|------------------------------|--------------------------------------|--------------------------------------|
| Acetone | D | A |
| Acetone 60°C | D | A |
| Hydrochloric acid (10%) | A | A |
| Hydrochloric acid (10%) 70°C | A | A |
| Hydrochloric acid (20%) | A | A |
| Hydrochloric acid (20%) 80°C | A | A |
| Hydrochloric acid (36%) | A | A |
| Hydrochloric acid (36%) 70°C | A | A |
| Xylene | A | A |
| Chloroform | B | A |
| Acetic acid (10%) | D | A |
| Acetic acid (100%) | D | A |
| Acetic acid (25%) | D | A |
| Acetic acid (50%) | D | A |
| Acetic acid (50%) 70°C | D | A |
| Acetic acid (anhydrous) | D | A |
| Tetrahydrofuran | D | A |
| Toluene | C | A |
| Pyridine | D | A |
| Hexane | A | A |
| Benzene | C | A |
| Benzene 70°C | C | A |

A: Good B: Usable based on a condition C/D: Unusable

Related Products



MFD800 + BOG oil bath + LM200 flask mixer

MFH800 + OA167 aluminum block + LM100 flask mixer