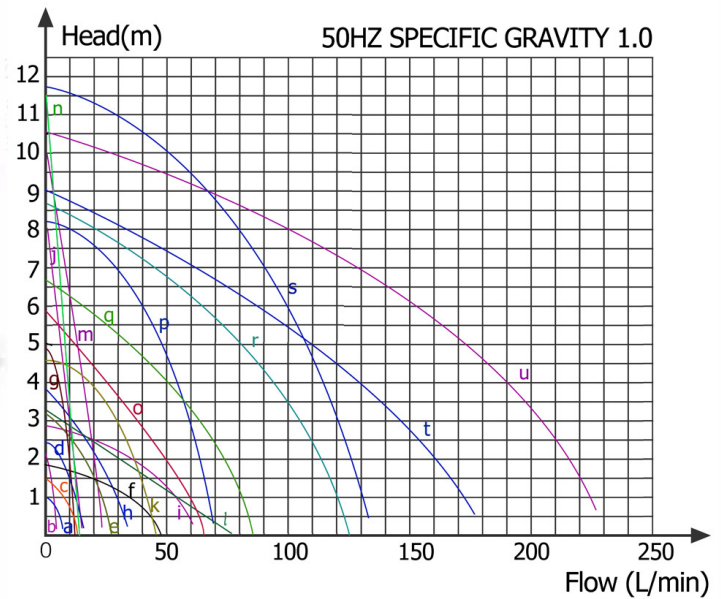


OKAWA MAGNETIC PUMP

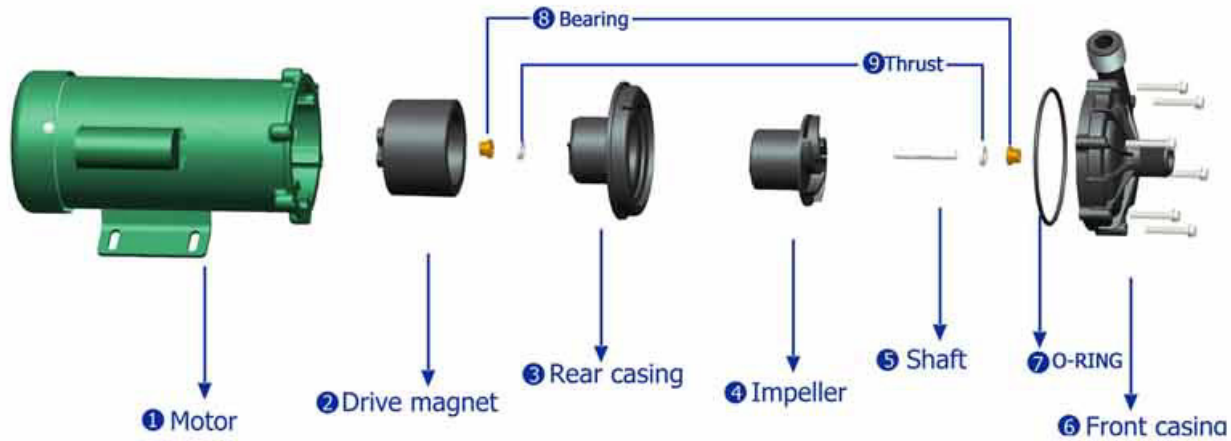


ML SERIES MAGNETIC DRIVING PUMP HAS A SEAL-LESS STRUCTURE, NEVER LEAK. It can be widely used in various application. Applied corrosion resistant material, such as GFRPP, CFRETFE. It is suitable for photo industry, plating, PCB industry, etc.

Specification

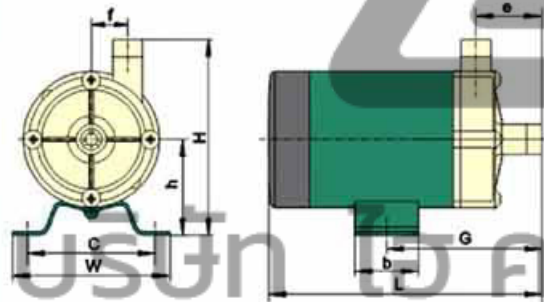
| Model | CURVE | HOSE | | THREADED | | Max Flow (L/min) | Top Head (M) | Standard | | Gravity | Power | |
|----------|-------|------------|-------------|---------------|------------|------------------|--------------|--------------|----------|---------|------------|-------|
| | | Inlet (mm) | Outlet (mm) | In*Out (inch) | Union (mm) | | | Flow (L/min) | Head (M) | | Output (W) | Phase |
| ML-3R | a | 14 | 14 | G1/2"G1/2 | — | 8.5 | 1 | 3 | 0.8 | <1.1 | 3 | 1 |
| ML-3RZ | b | 14 | 14 | G1/2"G1/2 | — | 5.8 | 2.1 | 3.5 | 1.5 | <1.1 | 3 | 1 |
| ML-10R | c | 14 | 14 | G1/2"G1/2 | — | 12 | 1.5 | 6 | 1 | <1.1 | 10 | 1 |
| ML-20R | d | 14 | 14 | G3/4"G3/4 | 13mm | 17 | 2.4 | 8 | 1.5 | <1.1 | 20 | |
| ML-20R | e | 18 | 18 | G3/4"G3/4 | 16mm | 28 | 3.1 | 17 | 2 | <1.1 | 20 | 1 |
| ML-20RX | f | 26 | 26 | G1"G1 | 20mm | 47 | 1.8 | 30 | 1 | <1.1 | 20 | 1 |
| ML-20RZ | g | 18 | 18 | G3/4"G3/4 | 13mm | 11 | 4.9 | 7 | 4 | <1.1 | 20 | 1 |
| ML-45R | h | 20 | 20 | G3/4"G3/4 | 16mm | 35 | 3.8 | 16 | 2.5 | <1.1 | 45 | 1 |
| ML-45RX | i | 26 | 26 | G1"G1 | 20mm | 62 | 2.9 | 32 | 2 | <1.1 | 45 | 1 |
| ML-45RZ | j | 18 | 18 | G3/4"G3/4 | 13mm | 15 | 8 | 11 | 6 | <1.1 | 45 | 1 |
| ML-65R | k | 20 | 20 | G3/4"G3/4 | 16mm | 45 | 4.6 | 22 | 4 | <1.1 | 65 | 1 |
| ML-65RX | l | 26 | 26 | G1"G1 | 20mm | 78 | 3.3 | 48 | 2 | <1.1 | 65 | 1 |
| ML-65RZ | m | 22 | 22 | G3/4"G3/4 | 16mm | 22 | 10 | 10 | 8 | <1.1 | 65 | 1 |
| ML-65RY | n | 22 | 22 | G3/4"G3/4 | 16mm | 13 | 11.5 | 8 | 10 | <1.1 | 65 | 1 |
| ML-90R | o | 26 | 26 | G1"G1 | 20mm | 65 | 5.8 | 30 | 4 | <1.2 | 90 | 1or3 |
| ML-90RX | p | 26 | 26 | G1"G1 | 20mm | 70 | 8.2 | 48 | 4 | <1.2 | 90 | 1or3 |
| ML-150R | q | 26 | 26 | G1"G1 | 20mm | 86 | 6.7 | 53 | 4 | <1.2 | 150 | 1or3 |
| ML-250R | r | 26 | 26 | G1"G1 | 20mm | 125 | 8.6 | 65 | 6.5 | <1.3 | 250 | 1or3 |
| ML-250RX | s | 26 | 26 | G1"G1 | 20mm | 135 | 11.7 | 65 | 9 | <1.3 | 250 | 1or3 |
| ML-250RZ | t | 26 | 26 | G1 1/4"G1 1/4 | 32mm | 180 | 9 | 110 | 5 | <1.3 | 250 | 1or3 |
| ML-370R | u | 26 | 26 | G1 1/2"G1 1/2 | 36mm | 230 | 10.5 | 150 | 6 | <1.3 | 370 | 1or3 |

Struction

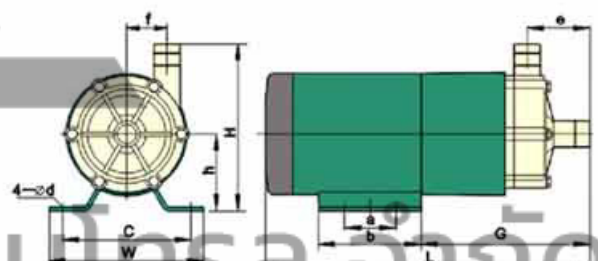


| NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----------|-------|--------------|-------------|-------------|-----------------|--------------|----------|-----------------|-----------------|
| Part Name | Motor | Drive Magnet | Rear Casing | Impeller | Shaft | Front Casing | O-RING | Bearing | Thrust |
| Material | FC | Magnet | GFRPP/CFRTE | GFRPP/CFRTE | Alumina ceramic | GFRPP/CFRTE | EPDM/FKM | Alumina ceramic | Alumina ceramic |

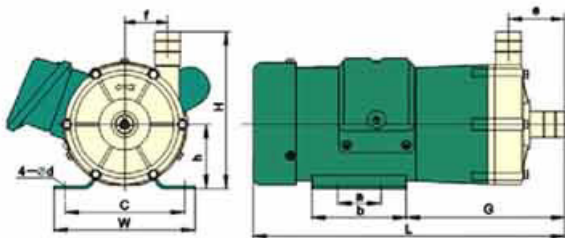
Dimension



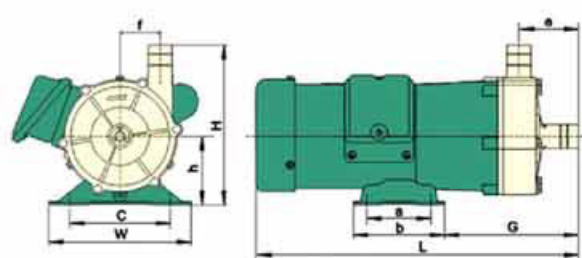
| Model | W | H | L | a | b | c | h | e | f | G | d |
|-------|----|----|-----|---|----|----|----|----|----|----|---|
| ML-3 | 74 | 83 | 129 | - | 30 | 60 | 36 | 31 | 17 | 74 | 6 |
| ML-6 | 74 | 83 | 129 | - | 30 | 60 | 36 | 31 | 17 | 74 | 6 |



| Model | W | H | L | a | b | c | h | e | f | G | d |
|-------|-----|-----|-----|----|----|-----|----|----|------|-----|---|
| ML-10 | 82 | 100 | 196 | 49 | 64 | 68 | 45 | 38 | 23 | 89 | 6 |
| ML-20 | 106 | 116 | 226 | 44 | 60 | 90 | 45 | 38 | 28.5 | 112 | 7 |
| ML-45 | 120 | 130 | 250 | 40 | 64 | 100 | 60 | 48 | 31 | 137 | 9 |
| ML-65 | 120 | 130 | 250 | 40 | 64 | 100 | 60 | 48 | 31 | 137 | 9 |



| Model | W | H | L | a | b | c | h | e | f | G | d |
|--------|-----|-----|-----|----|----|-----|----|----|----|-----|---|
| ML-90 | 120 | 161 | 275 | 40 | 64 | 100 | 65 | 57 | 43 | 166 | 9 |
| ML-150 | 142 | 161 | 267 | 70 | 96 | 108 | 65 | 57 | 43 | 129 | 9 |



| Model | W | H | L | a | b | c | h | e | f | G | d |
|--------|-----|-----|-----|----|-----|-----|----|----|----|-----|----|
| ML-250 | 156 | 174 | 322 | 70 | 100 | 110 | 45 | 65 | 44 | 146 | 9 |
| ML-370 | 140 | 210 | 399 | 98 | 128 | 110 | 95 | 80 | 51 | 129 | 12 |