



# WCM-Series

## Medium Head Centrifugal Pump

ปั๊มน้ำหัวขึง ชนิดแรงดันปานกลาง

WCM-1105S

### SPECIFICATION

| MODEL     | PHASE | POWER |     | POLE | VOLTAGE | Hz | AMPERE | FLOW RATE            |      |      |      |      |      |      |      |      |      |
|-----------|-------|-------|-----|------|---------|----|--------|----------------------|------|------|------|------|------|------|------|------|------|
|           |       | kW    | HP  |      |         |    |        | m <sup>3</sup> / h   | 0    | 6    | 12   | 17   | 18   | 21   | 27   | 30   | 33   |
|           |       |       |     |      |         |    |        | l / min.             | 0    | 100  | 200  | 280  | 300  | 350  | 450  | 500  | 550  |
| WCM-375S  | 1     | 0.37  | 1/2 | 2    | 220     | 50 | 2.9    | TOTAL<br>HEAD<br>(m) | 9.8  | 9.2  | 7.7  | 6    | 5.6  | 4.3  | -    | -    | -    |
| WCM-555S  | 1     | 0.55  | 3/4 | 2    | 220     | 50 | 5.0    |                      | 13.7 | 13.2 | 12   | 10.7 | 10   | 8.6  | 5.4  | -    | -    |
| WCM-755S  | 1     | 0.75  | 1   | 2    | 220     | 50 | 7.0    |                      | 17.2 | 16.9 | 15.5 | 13.2 | 13   | 11.4 | 7.6  | -    | -    |
| WCM-755SH | 1     | 0.75  | 1   | 2    | 220     | 50 | 7.1    |                      | 21   | 20   | 17   | 13.6 | -    | -    | -    | -    | -    |
| WCM-1105S | 1     | 1.1   | 1.5 | 2    | 220     | 50 | 9.1    |                      | 20.7 | 20   | 18.7 | 16.4 | 16.3 | 14.7 | 11   | 8.9  | -    |
| WCM-1505S | 1     | 1.5   | 2   | 2    | 220     | 50 | 14.0   |                      | 26.4 | 26.2 | 25   | 23.4 | 23   | 21.5 | 17.8 | 15.6 | 13.2 |

Operating Limits : Suction lift up to 7m , Fluid temperature up to +60°C , Ambient temperature up to +40°C Motor synchronous speed : 3,000 r/min.

### APPLICATIONS

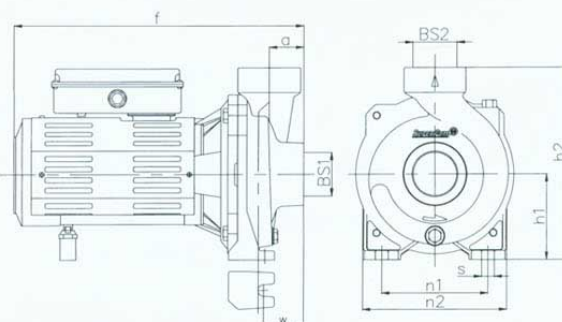
- ☛ Suitable for household, agricultural, irrigation and industrial water-pumping use.
- ☛ Volute & Impeller are designed for pump even fairly dirty water.
- ☛ Heavy duty design performs high flow rate even in continuously long-term use.
- ☛ IP55 degree of protection provide an advantage on outdoor use.

### STRUCTURE CHARACTERISTICS

- ☛ Cast iron PUMP BODY with gas-threaded suction & delivery openings drain & fill plugs.
- ☛ Steel MOTOR FRAME is coated with epoxy paint to provide rust resistance.
- ☛ Stainless steel PUMP COVER is incorporated to reduce friction in pump casing.
- ☛ Stainless steel IMPELLER, centrifugal radial flow type.
- ☛ Stainless steel MOTOR SHAFT.
- ☛ Ceramic and graphite MECHANICAL SEAL.
- ☛ Pumps are directly coupled with the best proper **MITSUBISHI** induction motors which reach high efficiency and reliability.
- ☛ **Thermal protector** is incorporated in motor. (except WCM-1505S model)
- ☛ IP55 degree of protection.
- ☛ Class F motor insulation.

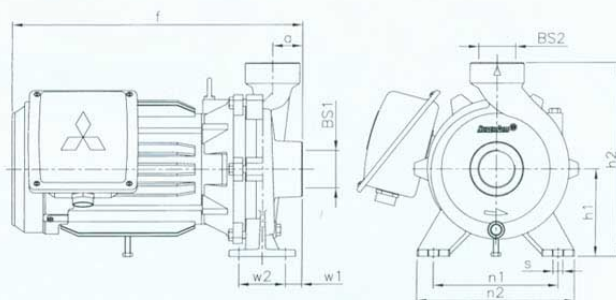
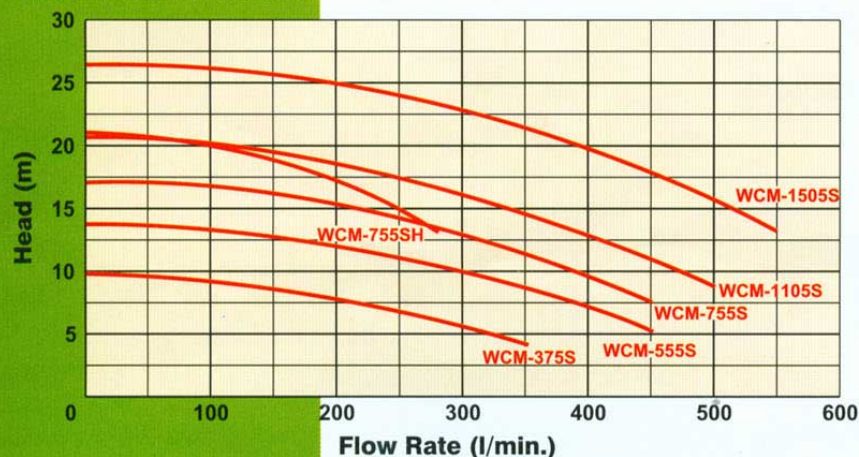
### OUTLINE DIMENSION

| MODEL     | BORE SIZE |        | DIMENSIONS (mm) |    |       |     |     |     |     |      |    |    | WEIGHT (kg) |
|-----------|-----------|--------|-----------------|----|-------|-----|-----|-----|-----|------|----|----|-------------|
|           | 1 PHASE   | BS1    | BS2             | a  | f     | h1  | h2  | n1  | n2  | w1   | w2 | s  |             |
| WCM-375S  | 1 1/2"    | 1 1/2" | 1 1/2"          | 31 | 272.3 | 85  | 203 | 135 | 165 | 30   | -  | 10 | 11          |
| WCM-555S  | 1 1/2"    | 1 1/2" | 1 1/2"          | 45 | 327   | 112 | 252 | 140 | 190 | 53   | -  | 15 | 15.5        |
| WCM-755S  | 2"        | 2"     | 2"              | 45 | 345.5 | 112 | 252 | 140 | 190 | 52   | -  | 15 | 17.5        |
| WCM-755SH | 1 1/2"    | 1 1/2" | 1 1/2"          | 45 | 345.5 | 112 | 252 | 140 | 190 | 52   | -  | 15 | 17          |
| WCM-1105S | 2"        | 2"     | 2"              | 45 | 381.5 | 112 | 252 | 140 | 190 | 52   | -  | 15 | 21          |
| WCM-1505S | 2"        | 2"     | 2"              | 45 | 434.5 | 132 | 292 | 190 | 240 | 24.5 | 70 | 15 | 54          |



WCM-375S, WCM-555S, WCM-755S, WCM-755SH, WCM-1105S

### PERFORMANCE CURVES



WCM-1505S



WCM-1105FS

# WCM-Flange Series

## Medium Head Centrifugal Pump (with flange connection)

ปั๊มน้ำหัวขบ่ง ชนิดแรงดันปานกลาง (หน้าแปลน)

### SPECIFICATION

| MODEL      | PHASE | POWER |     | POLE | VOLTAGE | Hz | AMPERE | FLOW RATE            |      |      |      |      |      |      |      |      |      |
|------------|-------|-------|-----|------|---------|----|--------|----------------------|------|------|------|------|------|------|------|------|------|
|            |       | kW    | HP  |      |         |    |        | m <sup>3</sup> / h   | 0    | 6    | 12   | 18   | 21   | 24   | 27   | 30   | 33   |
|            |       |       |     |      |         |    |        | l / min.             | 0    | 100  | 200  | 300  | 350  | 400  | 450  | 500  | 550  |
| WCM-555FS  | 1     | 0.55  | 3/4 | 2    | 220     | 50 | 5.0    | TOTAL<br>HEAD<br>(m) | 13.7 | 13.2 | 12   | 10   | 8.6  | 7.2  | 5.4  | -    | -    |
| WCM-755FS  | 1     | 0.75  | 1   | 2    | 220     | 50 | 7.0    |                      | 17.2 | 16.9 | 15.5 | 13   | 11.4 | 9.7  | 7.6  | -    | -    |
| WCM-1105FS | 1     | 1.1   | 1.5 | 2    | 220     | 50 | 9.1    |                      | 20.7 | 20   | 18.7 | 16.3 | 14.7 | 13   | 11   | 8.9  | -    |
| WCM-1505FS | 1     | 1.5   | 2   | 2    | 220     | 50 | 14.0   |                      | 26.4 | 26.2 | 25   | 23   | 21.5 | 19.8 | 17.8 | 15.6 | 13.2 |

Operating Limits : Suction lift up to 7m , Fluid temperature up to +60°C , Ambient temperature up to +40°C Motor synchronous speed : 3,000 r/min.

### APPLICATIONS

- Easy maintenance, pump can be removed by no need to disconnect any joined pipe.
- Suitable for household, agricultural, irrigation and industrial water-pumping use.
- Volute & Impeller are designed for pump even fairly dirty water.
- Heavy duty design performs high flow rate even in continuously long-term use.
- IP55 degree of protection provide an advantage on outdoor use.

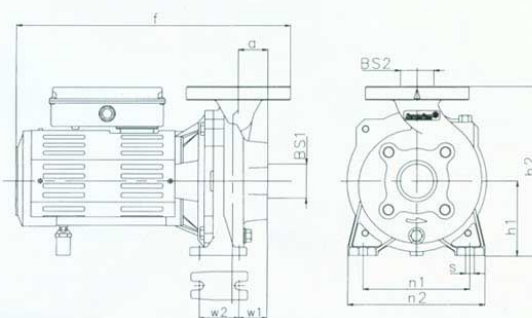
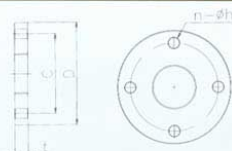
### STRUCTURE CHARACTERISTICS

- Cast iron PUMP BODY with flange connection suction & delivery openings are according to JIS B2239 (10K).
- Steel MOTOR FRAME is coated with epoxy paint to provide rust resistance.
- Stainless steel PUMP COVER is incorporated to reduce friction in pump casing.
- Stainless steel IMPELLER, centrifugal radial flow type.
- Stainless steel MOTOR SHAFT.
- Ceramic and graphite MECHANICAL SEAL.
- Pumps are directly coupled with the best proper **MITSUBISHI** induction motors which reach high efficiency and reliability.
- Thermal protector** is incorporated in motor. (except WCM-1505FS model)
- IP55 degree of protection.
- Class F motor insulation.

### OUTLINE DIMENSION

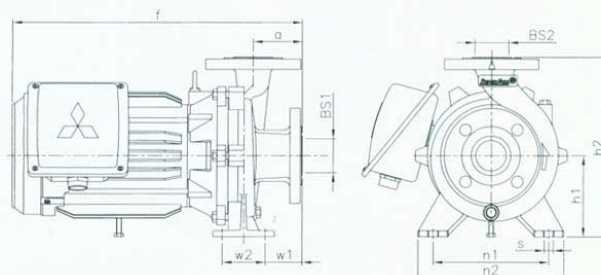
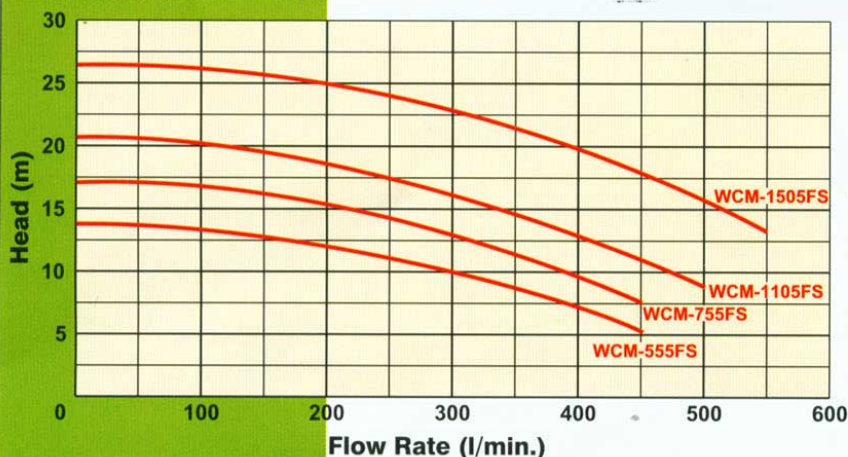
| MODEL      | BORE SIZE |     | DIMENSIONS (mm) |    |       |     |     |     |     |      |    |    | WEIGHT (kg) |
|------------|-----------|-----|-----------------|----|-------|-----|-----|-----|-----|------|----|----|-------------|
|            | 1 PHASE   | BS1 | BS2             | a  | f     | h1  | h2  | n1  | n2  | w1   | w2 | s  |             |
| WCM-555FS  |           | 2"  | 2"              | 31 | 366.5 | 112 | 252 | 140 | 190 | 47   | 70 | 15 | 25          |
| WCM-755FS  |           | 2"  | 2"              | 39 | 378   | 112 | 252 | 140 | 190 | 47   | 70 | 15 | 26          |
| WCM-1105FS |           | 2"  | 2"              | 39 | 414   | 112 | 252 | 140 | 190 | 47   | 70 | 15 | 29.5        |
| WCM-1505FS |           | 2"  | 2"              | 80 | 469.5 | 132 | 292 | 190 | 240 | 59.5 | 70 | 15 | 62          |

| FLANGE CONNECTION DIMENSIONS (mm) | C   | D   | t  | n | h (bolt size) |
|-----------------------------------|-----|-----|----|---|---------------|
|                                   | 120 | 155 | 20 | 4 | 19 (M16)      |



WCM-555FS, WCM-755FS, WCM-1105FS

### PERFORMANCE CURVES



WCM-1505FS