



|                                                                                                                                                                                                                                   |                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 说明书材质要求: <b>105g 有光铜版纸</b>                                                                                                                                                                                                        | 说明书成品尺寸: <b>105*143mm</b>                                                                                                                                                     |
| 第一: <b>专色用6级防晒油墨+CMYK油墨要求:</b><br>1. PANTONE137C专色油墨 ( <b>专色用6级防晒油墨</b> ):<br>如果自己配色, 油墨配比为: 酒联中黄 ( <b>防晒</b> ) 2000g<br>酒联金红 ( <b>防晒</b> ) 225g<br>2. C色油墨: 酒联天蓝墨<br>3. M色油墨: 酒联金红墨<br>4. Y色油墨: pantone123C专色油墨<br>5. K色油墨: 酒联黑墨 | 第二: 特别注意:<br>1. 印刷时看样请参考我司提供的实物样品颜色。不得偏色<br>2. 137C的专色 <b>不得</b> 参考C=0, M=35, Y=90, K=0对应的四色<br>色谱颜色来看样印刷<br><div><div></div> Pantone 137C<br/><div></div> Black (两色印刷)</div> |
| 折叠方式: <b>风琴折</b> ( <small>20P以下用风琴折</small> ) / <b>骑马钉</b> ( <small>20P以上用骑马钉</small> )<br><b>特殊情况: 16P/20P: 风琴折 + 对折</b>                                                                                                         | 备注:                                                                                                                                                                           |

**特别注意: 此页内容不印刷**

风琴折 + 对折 页面顺序

16P 页面顺序

|    |    |    |    |
|----|----|----|----|
| 9  | 10 | 11 | 封面 |
| 12 | 13 | 14 | 封底 |

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

20P 页面顺序

|    |    |    |    |    |
|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 封面 |
| 15 | 16 | 17 | 18 | 封底 |

|   |   |   |   |    |
|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5  |
| 6 | 7 | 8 | 9 | 10 |

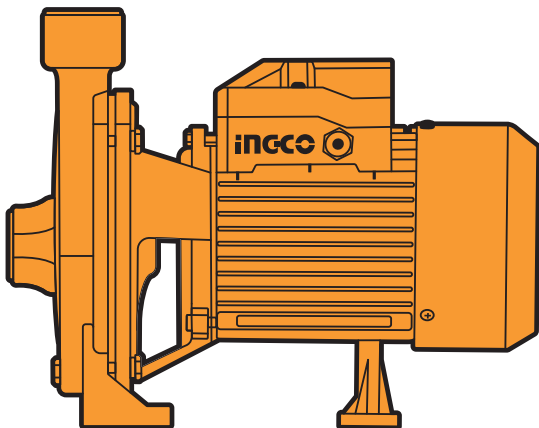
|      |          |            |     |            |            |     |
|------|----------|------------|-----|------------|------------|-----|
| 更改记录 | 1. 新制作   |            |     | 1. 封面封底改彩色 |            |     |
|      | 1123.V07 | 2023.11.24 | LJJ | 0424.V08   | 2024.04.24 | LYY |
|      | 版本号      | 日期         | 设计师 | 版本号        | 日期         | 设计师 |

# ingco

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**PRODUCT  
MANUAL**

## WATER PUMP



**CPM3708 CPM3708M CPM3708-5 UCPM3708**  
**CPM5508 CPM5508M CPM5508-5 UCPM5508**  
**CPM7508 CPM7508M CPM7508-5 UCPM7508**  
**CPM15008 CPM15008M CPM15008-5 UCPM15008**



**GENERAL SAFETY WARNINGS****⚠ NOTE**

Before assembling and putting the pump into operation, in all cases read through the operating manual. For safety reasons, those persons who have not read through the operating manual may not use the pump. The pump is intended for use **ONLY** by adults who have fully read and understand these instructions. Whenever water and electric are in the same place there are risks of electrocution and serious injury or death. The pump is **ONLY** intended for use with water or water based (aqueous solutions) which have a content of at least 90% water. Do not use this pump for flammable, toxic, corrosive or irritant fluids.

- a) The user is responsible towards third parties with regard to the use of the pump (water installations, etc.)
- b) Before putting into operation, a qualified electrician must check that the required electrical safety measures are in place.
- c) The electrical connection is to be made via an electrical socket.
- d) Check the voltage. The specified technical information on the label must correspond to the voltage of the electrical equipment.
- e) During the operation of the pump, persons may not remain in the pumped medium.
- f) The temperature of the fluid to be pumped may not exceed 35°C. In the event that extension cables are used, they must be exclusively made out of rubber, type H07 RN-F, and in compliance with norm DIN 57282 or DIN 57245. Never handle, lift or carry the pump connected to electrical power by the cord. Make sure that the connection power outlet is kept away from water and moisture and that the power plug is protected from moisture.
- g) Before putting the pump into operation, check that the electrical cord and electrical residual current circuit breaker are not damaged.
- h) In the event that the pump is to be installed in a storm drain, one must subsequently close the storm drain with a cover in order to safeguard the safety of pedestrians.
- i) Reinforce the mounting of the discharge pipe with the use of a pipe clip. The user of the pump has the duty to take precautionary measures (installation of an alarm device, back-up pump, etc.) for the avoidance and prevention of

potential damages (such as flooded rooms, etc.) due to faulty pump operation (because of breakdowns or defects). On sandy or silty ground, it is necessary to let the pump run hanging by a rope or chain or to situate the pump on a suitable base in order to prevent the sinking of the intake section.

- j) In the event that the pump is damaged, the repair should only be made by an authorized service agent. Only original replacement parts must be used.
- k) The failure to correctly use, clean and maintain the pump or to modify the pump or its accessories in anyway other than that described in these instructions will prevent use for accepting any responsibility for damages, loss or injury. The following illustrate some of the cases where claims be refused.
  - Inappropriate repairs not made by an authorized agent
  - Use of other than original replacement parts.
- l) The connecting cable of this device may not be replaced. In the event of damage to the cable, the device should be scrapped.
- m) Note this product has internal lubricant which may escape contaminating the water, consequently the pump is not suitable for ponds with fish or other aquatic organisms. In addition, the pump can only be used to with water that is NOT for drinking at a later date. The same rules apply for the accessories.

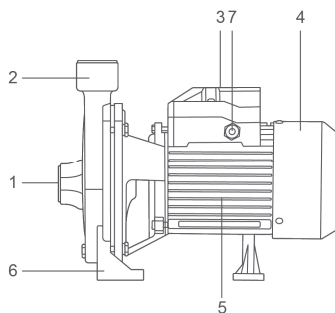
## THE SYMBOLS IN INSTRUCTION MANUAL

|                                                                                   |                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Read the instruction manual before using.</p>                                                                                                                                          |
|  | <p>Safety alert.<br/>Please only use the accessories supported by the manufacturer.</p>                                                                                                   |
|  | <p>Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.</p> |

## INTENDED USE

With compact dimensions, this pump able to generate high heads and suitable for domestic installations, water supply systems, small gardening applications, draining and filling cisterns, and for small industrial uses such as feeding pressurized boilers (anti-condensation).

## SPECIFICATIONS

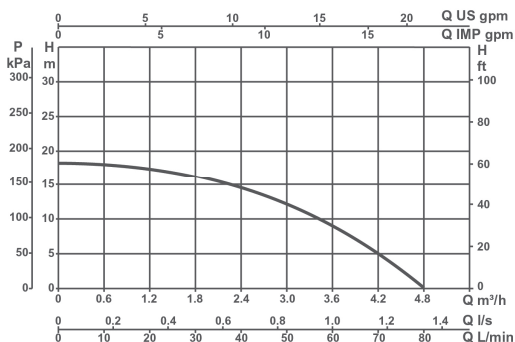


- |                   |               |
|-------------------|---------------|
| 1. Discharge port | 5. Motor body |
| 2. Delivery port  | 6. Pump body  |
| 3. Terminal box   | 7. Cable      |
| 4. Fan cover      |               |

### Technical specifications(0.37kW,0.5HP)

| Model No.             | CPM3708  | CPM3708M | CPM3708-5 | UCPM3708 |
|-----------------------|----------|----------|-----------|----------|
| Rated voltage (V)     | 220-240~ | 220-240~ | 220-240~  | 110-120~ |
| Rated frequency (Hz)  | 50       | 50       | 60        | 60       |
| Phase                 | Single   | Single   | Single    | Single   |
| Rated output (kW/HP)  | 0.37/0.5 | 0.37/0.5 | 0.37/0.5  | 0.37/0.5 |
| No-load speed (r/min) | 2850     | 2850     | 3450      | 3450     |
| Max.head (m)          | 18       | 18       | 18        | 18       |
| Max.suction (m)       | 8        | 8        | 8         | 8        |
| Max.flow (L/min)      | 80       | 80       | 80        | 80       |
| Inlet/Outlet (inch)   | 1"x1"    | 1"x1"    | 1"x1"     | 1"x1"    |

## Performance curves(0.37kW,0.5HP)

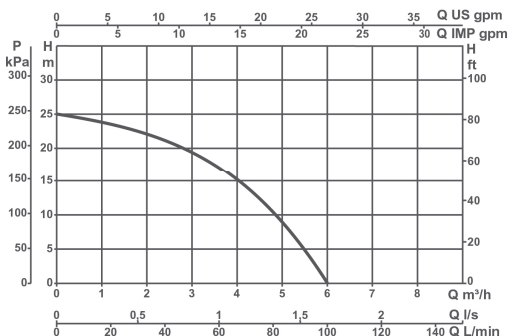


The performance curves are based on the kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

## Technical specifications(0.55kW,0.75HP)

| Model No.             | CPM5508   | CPM5508M  | CPM5508-5 | UCPM5508  |
|-----------------------|-----------|-----------|-----------|-----------|
| Rated voltage (V)     | 220-240~  | 220-240~  | 220-240~  | 110-120~  |
| Rated frequency (Hz)  | 50        | 50        | 60        | 60        |
| Phase                 | Single    | Single    | Single    | Single    |
| Rated output (kW/HP)  | 0.55/0.75 | 0.55/0.75 | 0.55/0.75 | 0.55/0.75 |
| No-load speed (r/min) | 2850      | 2850      | 3450      | 3450      |
| Max.head (m)          | 25        | 25        | 25        | 25        |
| Max.suction (m)       | 8         | 8         | 8         | 8         |
| Max.flow (L/min)      | 100       | 100       | 100       | 100       |
| Inlet/Outlet (inch)   | 1"x1"     | 1"x1"     | 1"x1"     | 1"x1"     |

## Performance curves(0.55kW,0.75HP)

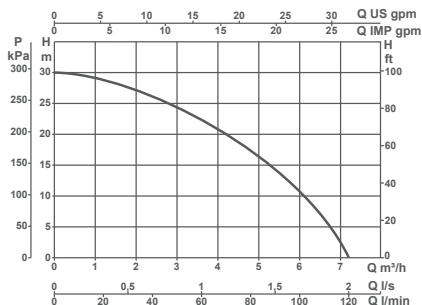


The performance curves are based on the kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

## Technical specifications(0.75kW,1.0HP)

| Model No.             | CPM7508  | CPM7508M | CPM7508-5 | UCPM7508 |
|-----------------------|----------|----------|-----------|----------|
| Rated voltage (V)     | 220-240~ | 220-240~ | 220-240~  | 110-120~ |
| Rated frequency (Hz)  | 50       | 50       | 60        | 60       |
| Phase                 | Single   | Single   | Single    | Single   |
| Rated output (kW/HP)  | 0.75/1.0 | 0.75/1.0 | 0.75/1.0  | 0.75/1.0 |
| No-load speed (r/min) | 2850     | 2850     | 3450      | 3450     |
| Max.head (m)          | 30       | 30       | 30        | 30       |
| Max.suction (m)       | 8        | 8        | 8         | 8        |
| Max.flow (L/min)      | 120      | 120      | 120       | 120      |
| Inlet/Outlet (inch)   | 1"x1"    | 1"x1"    | 1"x1"     | 1"x1"    |

## Performance curves(0.75kW,1.0HP)

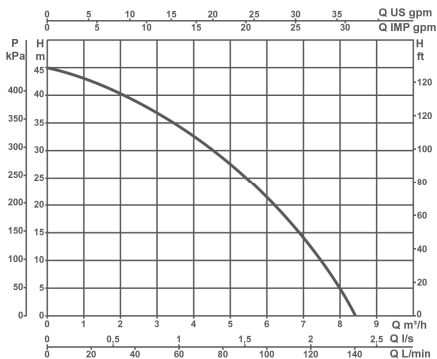


The performance curves are based on the kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

## Technical specifications(1.5kW,2.0HP)

| Model No.             | CPM15008 | CPM15008M | CPM15008-5 | UCPM15008 |
|-----------------------|----------|-----------|------------|-----------|
| Rated voltage (V)     | 220-240~ | 220-240~  | 220-240~   | 110-120~  |
| Rated frequency (Hz)  | 50       | 50        | 60         | 60        |
| Phase                 | Single   | Single    | Single     | Single    |
| Rated output (kW/HP)  | 1.5/2.0  | 1.5/2.0   | 1.5/2.0    | 1.5/2.0   |
| No-load speed (r/min) | 2850     | 2850      | 3450       | 3450      |
| Max.head (m)          | 45       | 45        | 45         | 45        |
| Max.suction (m)       | 8        | 8         | 8          | 8         |
| Max.flow (L/min)      | 140      | 140       | 140        | 140       |
| Inlet/Outlet (inch)   | 1"x1"    | 1"x1"     | 1"x1"      | 1"x1"     |

## Performance curves(1.5kW,2.0HP)



The performance curves are based on the kinematic viscosity values =  $1 \text{ mm}^2/\text{s}$  and density equal to  $1000 \text{ kg/m}^3$ . Curve tolerance according to ISO 9906.

## OPERATION

### Installation

1. Before installing the pump, you must check that the rotating parts turn freely. For this purpose, remove the fan cover from its seat in the motor end cover. Insert a screwdriver in the notch on the motor shaft from the ventilation side. If there is a block- age, turn the screwdriver, tapping it gently with a hammer.
2. The electro pump must be fitted in a well-ventilated place, protected from unfavorable weather conditions and with an environment temperature not exceeding 40°C.
3. A firm anchoring of the pump to the bearing surface favors the absorption of any vibrations caused by pump operation.
4. Ensure that the metal pipes do not exert undue strain on the apertures, thus preventing deformations or breakages.
5. It is always good practice to place the pump as close as possible to the liquid to be pumped. The pump must be installed only in horizontal position. The internal diameters of the pipes must never be smaller than that of the mouth of the electro pump. It is advisable to fit a foot valve on suction. For suction depths of over four meters or with long horizontal stretches it is advisable to use an intake hose with a diameter larger than that of the intake aperture of the pump. To prevent the formation of air pockets, the intake hose must slope slightly upwards towards the pump.
6. If the intake pipe is made of rubber or flexible material, always check that it is of the reinforced type to avoid throttling due to suction.
7. The lifting and carrying handle must always be present and well-fixed to the support on all pumps produced in the portable version.
8. Pumps that are to be used in fountains for outdoor use, in garden ponds and similar places, must be fed by means of a circuit equipped with a differential current device, the rated operating differential current of which is not higher than 30 mA.

### Electrical connection

1. Electric installation must be carried out by skilled and authorized electrician who accepts all the responsibility for the job.
2. Ensure that the mains voltage is the same as the value shown on the motor plate and that there is the possibility of making a good earth connection, in

particular the earth terminal must be connected to the yellow/green lead of the power cable. The earth lead used must be longer than the phase leads so that it does not disconnect first when subject to traction.

3. In fixed installations, International Safety Standards require the use of isolating switches with a fuse-carrier base.
4. Single-phase motors are provided with built-in thermal overload protection and may be connected directly to the mains. Three-phase motors must be protected with an automatic switch (e.g., overload protection) set at the values on the electro pump data plate.

## Starting up

1. Before starting up for the first time, check that the pump is properly primed; fill it completely with clean water by means of the hole provided after having removed the filler cap on the pump body. This ensures that the mechanical seal is well lubricated and that the pump immediately starts to work regularly. Dry operation causes irreparable damage to the mechanical seal. The filling cap must then be screwed back on carefully.
2. Switch on the power and check, on the three-phase version that the motor is turning in the correct direction; this should be in a clockwise direction, looking at the motor from the impeller side. If it is turning in the wrong direction, invert the connections of any two wires on the terminal board, after having disconnected the pump from the power mains.

## Precautions

1. The electro pump should not be started more than 20 times in one hour so as not to subject the motor to excessive thermal shock.
2. Danger of frost: When the pump remains inactive for a long time at temperatures of less than 0°C, the pump body must be completely emptied through the drain cap, to prevent possible cracking of the hydraulic components. This operation is advisable even in the event of prolonged inactivity at normal temperature.
3. When starting after long periods of inactivity, the starting-up operations listed above must be repeated.

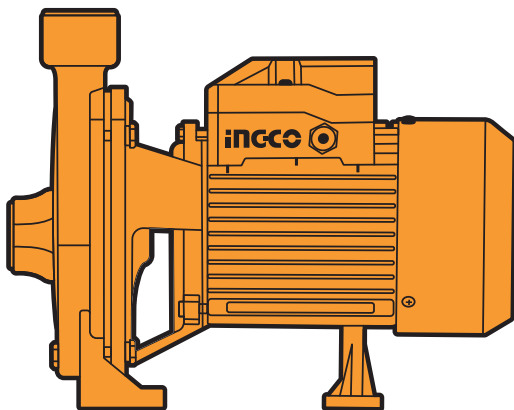
## MAINTENANCE&MALFUNCTIONS

### Possible malfunctions and methods of their eliminations

| Fault                                        | Checks (possible cause)                                                                                                                                                                                                                                                                                      | Remedy                                                                                                                                         |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| The motor does not start and makes no noise. | A. Check the electric connections.<br>B. Check that the motor is live.<br>C. Check the protection fuses.                                                                                                                                                                                                     | A. If they are burnt-out, change them.<br>B. If the fault is repeated immediately this means that the motor is short circuiting.               |
| The motor does not start but makes noise.    | A. Ensure that the mains voltage is the same as the value on the plate.<br>B. Ensure that the connections have been made correctly.<br>C. Check that all the phases are present on the terminal board.<br>D. Look for possible block- ages in the pump or motor.<br>E. Check the condition of the capacitor. | A. Correct any errors.<br>B. If not, restore the missing phase.<br>C. Remove the blockage.<br>D. Replace the capacitor.                        |
| The motor turns with difficulty.             | A. Check the voltage which may be insufficient.<br>B. Check whether any moving parts are scraping against fixed parts.                                                                                                                                                                                       | A. Eliminate the cause of the scraping.                                                                                                        |
| The pump does not deliver.                   | A. The pump has not been primed correctly.<br>B. On three-phase motors, check that the direction of rotation is correct.<br>C. The diameter of the intake pipe is insufficient.<br>D. Blocked foot valve.                                                                                                    | A. If necessary, invert the connection of two supply wires<br>B. Replace the pipe with one with a larger diameter.<br>C. Clean the foot valve. |
| The pump does not prime.                     | A. The intake pipe or the foot valve is taking in air.<br>B. The downward slope of the intake pipe favors the formation of air pockets.                                                                                                                                                                      | A. Eliminate the phenomenon and prime again.<br>B. Correct the inclination of the intake pipe.                                                 |

## MAINTENANCE&MALFUNCTIONS

|                                                |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                    |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The pump supplies insufficient flow.</p>    | <p>A. Blocked foot valve.<br/>B. The impeller is worn or blocked.<br/>C. The diameter of the intake pipe is insufficient.<br/>D. On three-phase motors, check that the direction of rotation is correct.</p>                         | <p>A. Clean the foot valve.<br/>B. Remove the obstructions or replace the worn parts.<br/>C. Replace the pipe with one with a larger diameter.<br/>D. If necessary, invert the connection of two supply wires.</p> |
| <p>The pump vibrates and operates noisily.</p> | <p>A. Check that the pump and the pipes are firmly anchored.<br/>B. There is cavitation in the pump, that is the demand for water is higher than it is able to pump.<br/>C. The pump is running above its plate characteristics.</p> | <p>A. Fix the loose parts more carefully.<br/>B. Reduce the intake height or check for load losses.<br/>C. It may be useful to limit the flow at delivery.</p>                                                     |



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NEWWAY TECHNOLOGY (SUZHOU) CO., LIMITED

No. 20 Dagang Road, Fuqiao Town, Taicang City, China



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[www.ingco.com](http://www.ingco.com)