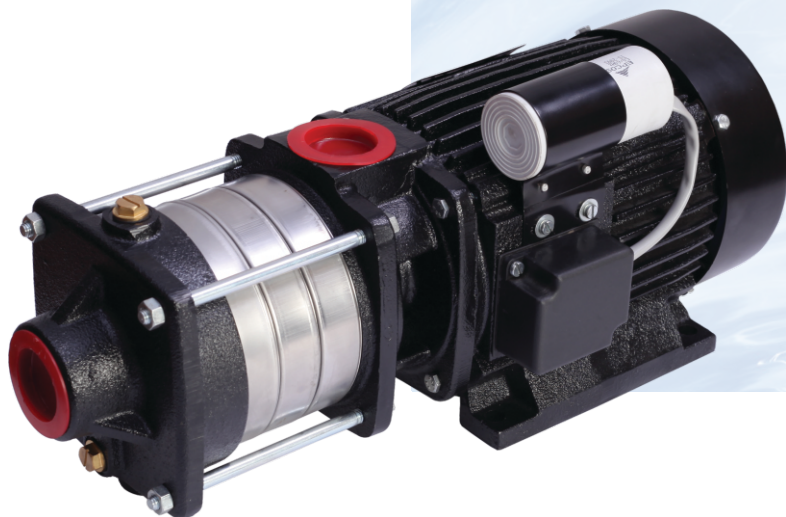




**HORIZONTAL MULTISTAGE CENTRIFUGAL MONOBLOCK
AHS SERIES**



INSTALLATION / SPARE PARTS MANUAL

FOR MODELS :

'TEXMO'

'AQUATEX'

AHS 02/03, AHS 02/06

AHS 04/06

AHS 04/04

AHS 04/08

MANUFACTURED BY :

AQUAPUMP INDUSTRIES

TUDIYALUR POST, COIMBATORE - 641 034, INDIA

E-mail : marketing@aquagroup.in

Website : www.aquagroup.in

Dear Customer,

Please follow the instructions given in this manual to install and maintain our “Horizontal Multistage Centrifugal monoblock” pumpset to get reliable operation.

When you order spares in future, please inform the name plate detail, viz., serial number, pump type and other datas. Spare parts list of the pumpset is given in this manual for your reference.

This pumpset should be installed by technically qualified personnel in compliance, in order to avoid unsatisfactory performance and equipment failure.

Thank you

TEXMO / AQUATEX HORIZONTAL MULTISTAGE CENTRIFUGAL MONOBLOCK

INSTALLATION:

LOCATION:

The pumpset should be erected in a place relatively free from dust , fumes , and moisture.

SUCTION PIPE:

1. The vertical distance between the water level at the suction side and the pumpset should not exceed 26 feet (8 meters).
2. Only recommended pipe size should be used. Small pipe size, nipples, elbows, bends all give rise to pressure losses and should either be eliminated or used sparingly. If flexible hoses are used, note that it should be non collapsible.
3. A larger diameter suction pipe may be used in case the suction distance is more.
4. Ensure minimum number of bends and airtight joints.

PRIMING:

1. A good quality foot valve should be used to avoid priming problems, since the pumpset is not self priming.
2. It is necessary to fill water through priming plug provided at top of suction bracket during installation and tighten the priming plug properly.
3. Do not start the pumpset until it has been filled with clear cold water.

DELIVERY PIPE:

Use same diameter delivery pipe as in delivery bracket to avoid excess pressure loss.

TECHNICAL DATA:**ELECTRICAL DATA:**

1. Please check the power supply voltage and frequency corresponds to the pumpset name plate specification and connect according to diagram shown in terminal box cover.
2. Observe the relevant ELECTRICITY BOARD regulations while giving power supply to the pumpset.
3. Wire size should be sufficient. Use 3/20 wire for short lengths and 7/20 wire for long lengths.
4. The pumpset should be properly earthed to avoid electric shock.

DIRECTION OF ROTATION:

The pumpset should run clockwise when viewed from cooling fan side.

MAINTENANCE:

1. Do not wrap the motor with airtight materials such as polythene sheet. Condensation will form in tightly wrapped motor and damage the pumpset.
2. Bearing needs no lubrication for 3 years under normal conditions. When re-greasing, only half the space between bearing and cap should be filled with grease.
3. Pumpset should be covered with appropriate guard to prevent entry of rain water or direct sun light or any other dust particles.
4. Ensure that clogging does not take place in strainer. Clean the strainer periodically.

| S.No | DO's | DONT's |
|------|---|--|
| 1. | This pumpset must be used for lifting clear cold water only. | Don't use for lifting impure water or other liquids. |
| 2. | Only recommended pipe size should be used (Refer name plate) | Don't use smaller pipes or nipples than recommended. |
| 3. | Use Anaerobic pipe sealant or Teflon tape for pipe joints. | Don't use jute ropes or any other sealing materials. |
| 4. | Use G.I or PVC pipes for better results. | Don't use flexible hoses, that will affect performance. |
| 5. | Minimize number of bends in pipe fitting. | Avoid too many bend that will affect performance. |
| 6. | Pumpset should be covered with suitable guard. | Don't place the pumpset in open space without any protection. |
| 7. | Sufficient ventilation gap should be given at cooling cover side. | Don't wrap the pump with air tight material such as polythene cover. |
| 8. | Contact authorized service agent / dealer for service & repair. | Do not tamper or open the motor. |

This diagram shows an exploded view of a mechanical assembly, likely a pump or motor component. The parts are numbered as follows:

- 17-1: Top cover with a circular grille.
- 17-2: Gasket or seal.
- 17-6: Small pin or screw.
- 17-8: Small pin or screw.
- 11-11: Small pin or screw.
- 16-1: Long cylindrical shaft or rod.
- 9-1: Small pin or screw.
- 9-6: Small pin or screw.
- 19: Small pin or screw.
- 7-5: Small pin or screw.
- 7-4: Small pin or screw.
- 11-10: Small pin or screw.
- 9-5: Small pin or screw.
- 10: Small pin or screw.
- 10-9: Small pin or screw.
- 6-5: Small pin or screw.
- 11-15: Large cylindrical component with a flange.
- 11: Small pin or screw.
- 11-2: Small pin or screw.
- 11-6: Small pin or screw.
- 11-18: Small pin or screw.
- 11-3: Small pin or screw.
- 7-7: Small pin or screw.
- 3: Large cylindrical component with a flange.
- 7: Small pin or screw.
- 6: Small pin or screw.
- 2-2: Small pin or screw.
- 2-3: Small pin or screw.
- 6-15: Small pin or screw.
- 19-7: Small pin or screw.
- 2: Small pin or screw.
- 6-14: Small pin or screw.
- 6-8: Small pin or screw.
- 6-7: Small pin or screw.
- 6-13: Small pin or screw.

SPARE PARTS LIST

| PART NUMBER | PART NAME | QUANTITY | MATERIAL |
|-------------|-----------------------------|---|-------------------|
| 2 | SUCTION BRACKET | 1 | CAST IRON |
| 2 - 2 | TIE ROD | 4 | MS (ZINC COATED) |
| 2 - 3 | TIE ROD NUT | 8 | MS (ZINC COATED) |
| 3 | DELIVERY BRACKET | 1 | CAST IRON |
| 6 | STAGE CASING | STAGE – 1 (Upto 4 Stages) STAGE – 2 (6 Stages & above) | SS, AISI 304 |
| 6 – 5 | STAGE CASING GASKET | 1/Stage | LEATHEROID PAPER |
| 6 – 7 | DRAIN PLUG | 2 | BRASS |
| 6 - 8 | DRAIN PLUG "O" RING | 2 | NITRILE RUBBER |
| 6 – 13 | SUCTION BRACKET LEG SUPPORT | 1 (for 1.5 & 2 HP) | MS (ZINC COATED) |
| 6 – 14 | SPACER | (STAGE x 2) – 2 (Upto 4Stages) (STAGE x 2) – 4 (6Stages & above) | SS , AISI 410 |
| 6 – 15 | BUSH STAGE CASING | 1 (Only for 6 Stages & above) | SS, AISI 304 |
| 7 | IMPELLER | 1/Stage | SS, AISI 304 |
| 7 – 4 | IMPELLER LOCK NUT | 2 | SS , AISI 410 |
| 7 – 5 | LOCK SLEEVE | 1 | SS , AISI 410 |
| 9 – 1 | FRONT BEARING | 1 | SS |
| 9 – 5 | WATER CUTTING RING | 1 | NITRILE RUBBER |
| 9 – 6 | CIRCLIP | 1 | SP. STEEL |
| 10 | MECHANICAL SEAL ASSY | 1 | - |
| 10 - 9 | SEAL LOCKING COLLAR | 1 | SS , AISI 410 |
| 11 | STATOR FRAME | 1 | - |
| 11 – 2 | TERMINAL BOX COVER | 1 | PLASTIC |
| 11 – 3 | TERMINAL BOARD | 1 | BAKELITE |
| 11 – 6 | TERMINAL BOX COVER SCREW | 2 | MS (ZINC COATED) |
| 11 - 7 | TERMINAL BOARD SCREW | 1 | MS (ZINC COATED) |
| 11 – 10 | DEL.BRAC & FRAME HEX BOLT | 4 | MS (ZINC COATED) |

SPARE PARTS LIST

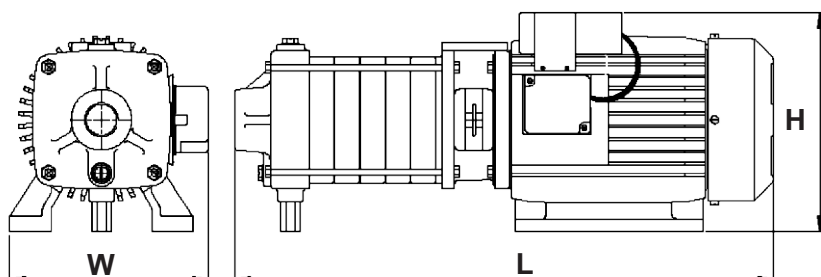
| PART NUMBER | PART NAME | QUANTITY | MATERIAL |
|-------------|--|--|-------------------|
| 11 – 11 | BACK COVER & MOTOR FRAME HEXAGONAL BOLT | 4 | MS (ZINC COATED) |
| 11 - 15 | CAPACITOR WITH CLAMP | 1 (for 0.5 & 1 HP) 2 (for 1.5 & 2 HP) | - |
| 11 – 18 | CAPACITOR CLAMP SCREW | 2 | MS (ZINC COATED) |
| 16 | BACK COVER | 1 | CAST IRON |
| 16 – 1 | BACK BEARING | 1 | SS |
| 17 – 1 | COOLING COVER | 1 | MS |
| 17 – 2 | COOLING FAN | 1 | PLASTIC |
| 17 – 6 | COOLING COVER SCREW | 4 | MS (ZINC COATED) |
| 17 – 8 | SPLIT PIN FOR COOLING FAN | 1 | SS |
| 19 | ROTOR SHAFT ASSEMBLY | 1 | SS, AISI 410 |
| 19 – 7 | BUSH SLEEVE | 1 (Only for 6 Stages & above) | SS, AISI 304 |

BEARING AND CAPACITOR CHART

| TYPE | HP | BEARING | | MOTOR RUN CAPACITOR 440 VOLTS | QUANTITY |
|-----------|-----|---------|---------|-------------------------------------|----------|
| | | FRONT | BACK | | |
| TEXMO | | | | | |
| AHS 02/03 | 0.5 | 6304 ZZ | 6203 ZZ | 15 MFD | 1 |
| AHS 02/06 | 1.0 | 6304 ZZ | 6203 ZZ | 25 MFD | 1 |
| AHS 04/04 | 1.0 | 6304 ZZ | 6203 ZZ | 25 MFD | 1 |
| AQUATEX | | | | | |
| AHS 04/06 | 1.5 | 6304 ZZ | 6303 ZZ | 36 MFD | 1 |
| AHS 04/08 | 2.0 | 6304 ZZ | 6303 ZZ | 25 MFD | 2 |

NOTE:- CAPACITORS FOR SINGLE PHASE MODELS ONLY

OVERALL DIMENSION CHART



| SI.NO | TYPE | SIZE SUCTION x DELIVERY | L (mm) | H (mm) | W (mm) | HP |
|----------------|-----------|----------------------------|-----------|-----------|-----------|-----|
| TEXMO | | | | | | |
| 1 | AHS 02/03 | 1" x 1" (BSP) | 380.0 | 200.0 | 190.0 | 0.5 |
| 2 | AHS 02/06 | | 500.0 | 200.0 | 190.0 | 1.0 |
| 3 | AHS 04/04 | 1 1/4" x 1 1/4" (BSP) | 450.0 | 200.0 | 190.0 | 1.0 |
| AQUATEX | | | | | | |
| 4 | AHS 04/06 | 1 1/4" x 1 1/4" (BSP) | 530.0 | 230.0 | 196.0 | 1.5 |
| 5 | AHS 04/08 | | 610.0 | 250.0 | 196.0 | 2.0 |

WARRANTY FOR MONOBLOCK :

Aquapump Industries warrants to the purchaser of this **TEXMO / AQUATEX** product, that for a period of 12 months commencing from the date of purchase of the product, Aquapump Industries will repair or replace free of charge any part or parts of the product, should Aquapump Industries be fully satisfied in its sole discretion, that the defect/s is / are due to faulty material or workmanship only. The warranty will be governed by the following clauses:

- 1. **Aquapump Industries** or their Authorised Service Agent / Dealer will repair / replace all parts that are failing due to faulty material or defective workmanship pertaining to the above product.
- 2. Only **Aquapump Industries** or its Authorised Service Agent / Dealer can service / repair or attend to install / reinstall the above product.
- 3. All expenses incurred in collecting the units or parts thereof from the Authorised Service Centre or the Dealer of Aquapump Industries as well as expenses incurred in connection with deputing of service personnel / technicians towards to and fro travel conveyance and other incidentals etc., will be borne by the customer.
- 4. The warranty extended therein is in lieu of all implied conditions and warranties under the law and is confined to the repair or replacement of defective parts and does not cover any consequential or resulting liability, damage or loss arising from such defects. Further more, the warranty in no case, shall extend to the payment or any monetary consideration whatsoever, of the replacement or return of the product as a whole.
- 5. The warranty is issued subject to jurisdiction of Coimbatore Court of Law.
- 6. The warranty is covered by Force Majeure clause. In the event if the above product is struck by any natural calamity, this warranty stands null and void.

This Warranty is not valid in case of any of the following events.

- a. This Pumpset is not used according to the instructions given in this Installation and Operation manual.
- b. If the electrical power supply voltage is not within the stipulated norms.
- c. Any repair work / installation carried out by a person other than **Aquapump Industries** Service Centre / Service Agent.
- d. The serial Number is deleted, defaced or altered.

WARRANTY CARD

(Please retain this for your personal record)

Product Name & Model No. Serial No.

Name and Address of Dealer

Bill No. Date of Purchase

Trademark of Aquasub Engineering & Aquapump Industries for Texmo & Aquatex brand products listed.



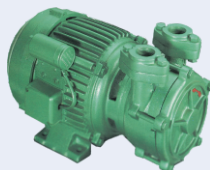
PUMPS YOU CAN RELY ON



"TEXMO"
SUBMERSIBLE PUMPSETS



"TEXMO"
VERTICAL JET PUMPSET



"TEXMO"
SINGLE PHASE DOMESTIC PUMPSET



"TEXMO"
SUBMERSIBLE MONOBLOCK
PUMPSET



"TEXMO"
SINGLE PHASE SELF PRIMING
MINI MONOBLOCK



"TEXMO"
DOMESTIC PRESSURE
BOOSTING SYSTEM



"AQUATEX"
HYDRO PNEUMATIC SYSTEM



"AQUATEX"
HORIZONTAL MULTISTAGE
STAINLESS STEEL
CENTRIFUGAL MONOBLOCK



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ELECTRIC MOTOR