

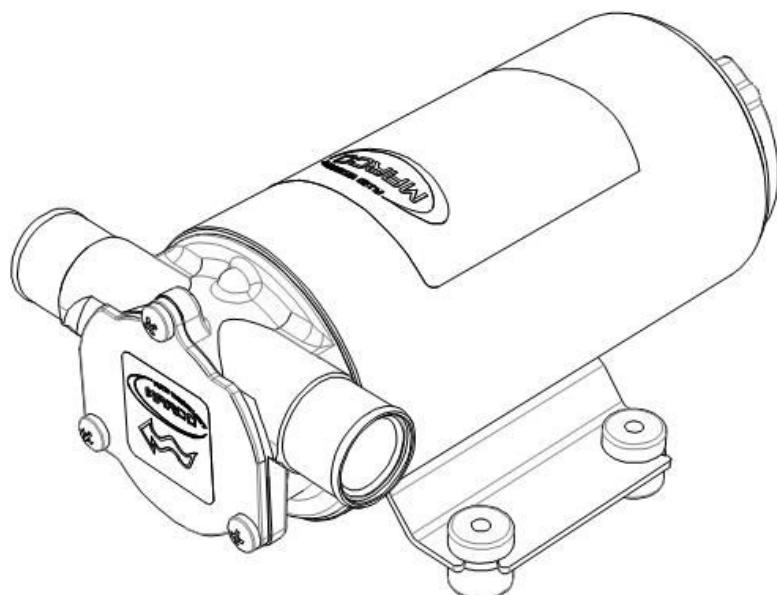


**ELETTROPOMPA AUTOADESCANTE
PER TRAVASO LIQUIDI
SELF-PRIMING ELECTRIC PUMP
FOR TRANSFERRING VARIOUS LIQUIDS**

**AVVERTENZE D'USO
INSTRUCTIONS FOR USE**

**162 006 12 - UP1-M 12V
162 006 13 - UP1-M 24V**

CE



13/09/19 Rev.07

PROBLEMI E SOLUZIONI

COSA VERIFICARE SE LA POMPA NON PARTE O SI ARRESTA?

- Verificare l'efficienza del generatore (presenza di tensione)
- Verificare se il fusibile è interrotto.
- Verificare la presenza di corpi estranei nel corpo della pompa. Per effettuare ciò è necessario svitare le quattro viti di fissaggio, togliere il piattello di chiusura ed ispezionarne l'interno. A controllo eseguito, il piattello, va rimontato nella posizione iniziale.
- Evitare di far girare a secco per più di qualche minuto. Le pompe riscontrate difettose per aver girato in assenza di liquido non sono coperte da garanzia
- La vita media delle spazzole in condizioni di uso normale è circa 2500 ore. Dopo tale periodo è possibile un arresto per usura delle spazzole.

PERCHE' LA POMPA NON ADESCA ?

- La pompa è posizionata a una altezza eccessiva dal livello del liquido
- La pompa ha girato a secco per troppo tempo.
- Lunghi periodi di inattività. In questo caso è consigliabile, prima dell'avviamento, introdurre direttamente del liquido nel corpo pompa.
- Ingresso di aria dal tubo di aspirazione a causa di possibile presenza di tagli, mancanza di opportuna fascetta di serraggio, malfunzionamento del filtro dovuto alla guarnizione difettata/usurata, o filtro intasato.
- Ingresso di aria dal piattello a causa di viti di fissaggio lente o di guarnizione danneggiata.
- Il collegamento dei cavi elettrici non è corretto.
- Presenza di ostruzioni o restringimenti del tubo di aspirazione o di mandata o di accessori particolari (per esempio pistola automatica o connessione tipo Aquastop)
- Il tubo di mandata presenta anse colme di fluido.
- Valvola di bypass sporca (serie VP45).

AZIONI PER FAVORIRE IL BUON FUNZIONAMENTO

Se si prevede un periodo di inattività di almeno trenta giorni, soprattutto nel caso che si travasi acqua, si consiglia di far circolare acqua dolce ed allentare le viti del piattello. Al riutilizzo richiedere le viti dopo un breve avviamento (pochi secondi). Verificare che nelle condizioni di massima contropressione, l'assorbimento del motore rientri nei dati di targa.



WARNING: THE PUMP MOTOR IS NOT EXPLOSION PROOF.

Do not install the pump where flammable vapours or gases may be present. Install the pump in an accessible place for inspection. It is good practice to avoid any pump contact with water splashes possibly causing water seepage into the motor with high risk of internal oxidation and/or short circuit.

It is the responsibility of the installation technician to ensure a correctly designed circuit installation fitted according to regulations. Environmental risks must be taken into account with the installation.

TUBING CONNECTIONS

- Prior to making any tube/hose connections, check that the inlet ports have no end caps;
- Do not position the pump at a excessive height with respect to the minimum level of the fluid to be transferred. Damage may occur if this height is exceeded as the pump may not draw fluid. Make sure that the outlet tube is empty and without chokes;
- Avoid choking the inlet or outlet tubes so that efficiency is optimized.
- The use of an inlet filter is recommended especially with fluids containing impurities (mesh ASTM no. 35). In this case frequent cleaning and maintenance of the filter is advisable. The standard filter withstands a maximum positive pressure of 0.5 bar.
- Utilize tubes and connection pieces that are resistant to the fluid types handled and avoid any possible environmental dispersion.

ELECTRICAL CONNECTION

The electrical installation of the pump must include a protection fuse which is suitably rated as indicated on the motor label.

WARRANTY EXPIRES IF NO FUSE IS UTILIZED

Electrical cabling size should depend on the distance between pump and battery power supply (see Tab.1 EN). The use of undersized cabling can cause overheating of the electrical wiring and subsequent fire hazard. There will also be a voltage drop at the motor terminals with a consequent reduction in efficiency. The flow rate value indicated on the motor label is obtained with internal tube diameter indicated on Tab.1 EN. Tubes with inferior diameters will cause an increase in current with potential risk of motor overheating.

ENG

TROUBLESHOOTING

CHECK POINTS IF THE PUMP HAS STOPPED OR WILL NOT START

- Check the effectiveness of the battery power supply (voltage activity);
- Check if the fuse has blown;
- Check for any foreign matter present in the pump body. To do this, disconnect the power supply and unscrew the four fixing screws, remove the front cover plate and inspect the chamber. Replace the cover plate in the same initial position after inspection;
- Avoid running the pump dry for more than a few minutes. Pumps found defective that have run dry in the absence of fluid are not covered by warranty;
- The average life span of the motor commutator brushes is approximately 2500 hours under normal operating conditions. Stoppages are possible due to brush wear and tear after such a time period.

WHY THE PUMP WILL NOT PRIME ITSELF?

- The pump is fitted at an excessive height above the fluid level
- The pump has run dry for too long a period
- Long periods of inactivity. In this case it is advisable to add liquid directly into the chamber before start-up
- Air leak at the suction pipe due to the following reasons, possible cuts in the pipe, inadequate hose clamps, malfunctioning of the filter due to defective/worn seals or filter clogged
- Air leak at the front plate cover due to the following reasons, loose fixing screws, poor effectiveness of the seal
- Faulty electrical cable connections
- Presence of obstructions or restrictions in the suction or delivery pipes or the use of special devices (eg. automatic spray pistol or Aquastop)
- Presence of liquid loops in the outlet tube
- Dirty bypass valve (VP45 series)

GOOD PRACTICES ENSURING A WELL FUNCTIONING PUMP

If it is expected that the pump will not be used for a period of at least 30 days, especially in the case of usage with water, it is advisable to run fresh water through it and to then loosen the front plate screws. Upon re-use, run the pump briefly (a few seconds) and tighten the screws again. Check under conditions of maximum operating pressure that the motor current value is within the motor label specifications.

NORMAL MAINTENANCE

- Check frequently and keep the inlet filter clean.
- Check every month the chamber and keep clean from any foreign matter.
- Check every month that electrical wiring is in good condition.
- Replace the rubber impeller every season or every 500 hours (for UP1 series).

INDICATORS THAT THE PUMP IS FUNCTIONING CORRECTLY

- Temperature of body and motor frame is within 60°C and 70°C (140 °F - 158 °F);
- Regular flow and constant noise levels;
- Amp-draw within the limits indicated in the diagrams.

TO OPEN THE PUMP

- It is recommended that a specialized service technician be consulted for any repair work or the replacement of worn out internal components, exclusively with original spare parts; during the warranty period, only by authorized Marco S.p.A. personnel, failing which the warranty will expire.

ENVIRONMENTAL DISPOSAL

It is the responsibility of the owner to dispose of this product by means of the specific refuse collection structures indicated by the government or the local governing authorities.

PACKAGING ENVIRONMENTAL DISPOSAL

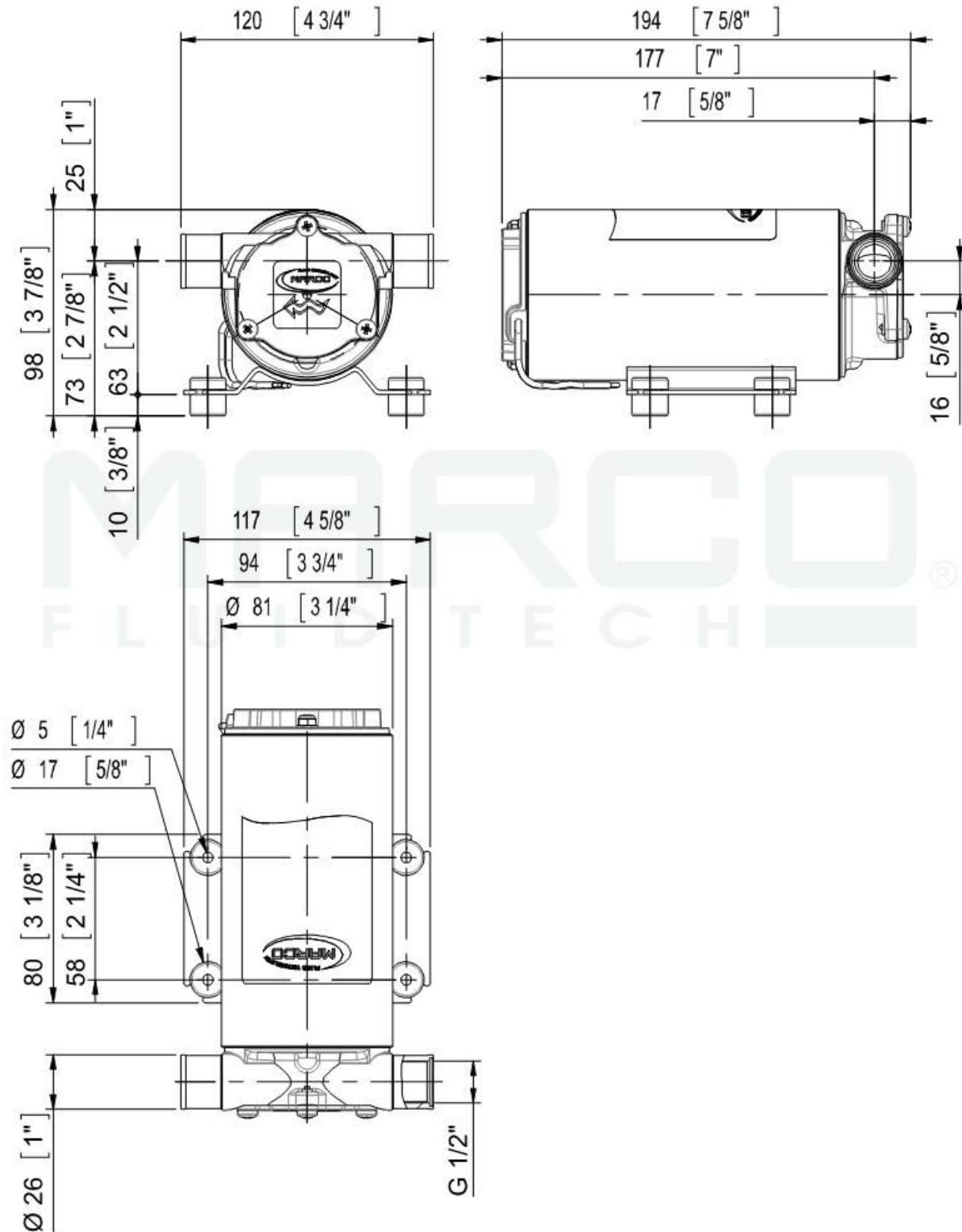
The user is invited to effect a proper waste separation, in order to facilitate the recycling of the materials of which the packing is composed.

WARRANTY

- 1) The Warranty period is 2 years from date of purchase on production of the appropriate sales invoice.
- 2) Should the original sales invoice not be available, then the 2 year warranty period will be valid from production date.
- 3) The Warranty becomes null and void in the case of incorrect utilization or disregard of the instructions contained herein.
- 4) The Warranty only covers original production defects.
- 5) The Warranty does not cover any related installation costs involved.
- 6) Transport costs are refundable only in the case where warranty has been duly accepted by Marco Spa and they will be limited to the actual shipment costs between Marco Spa warehouse and the client's delivery address.
- 7) No credit notes or replacement items will be issued prior to the receipt and proper testing of any Marco goods that are deemed faulty.

INGOMBRI / DIMENSIONS

mm [pollici / inches]





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