



**Submersible Water Pump  
Model: 1800  
USER INSTRUCTIONS**

Dear Customer,  
Thank you for purchasing this Membro submersible pump.

**Please read all instructions carefully before using the pump.**

**1. General guidelines**

- 1.1. Membro 1800 is a robust and reliable submersible pump, with max pressure of 6 bar, total head of up to 60m/197ft and max flow rate of 1800 l/h (6.6 gpm). It can draw clean or dirty water from a variety of sources, including boreholes and deep wells (fits easily into a 100mm pipe). The pump is designed to cope with floating solids (see also point 8.4).
- 1.2. The key components are aluminium housing, electromagnetic transformer, vibrator, inlet valve, check valve, thermal protection switch and outlet duct. The water is moved by electromagnetically generated vibrations in the pressure chamber, confined by check valve and vibrator. From the pressure chamber the water is pushed through two parallel channels in the pump's housing and on to the outlet duct. Thanks to this unique construction there are no rotating parts, which increases the pump's durability and ensures that minimum maintenance is required.
- 1.3. The pump must be completely submerged in order to operate correctly, as the water around it acts as a cooling agent. Membro pumps are equipped with a built-in thermal protection switch, which will stop the pump in the event of overheating due to running dry or insufficient submersion. The reason for overheating should always be investigated and corrected.

**2. Electrical connection**

- 2.1. The pump connects to the mains supply.
- 2.2. Check that the voltage and frequency marked on the product is the same as the electric power supply.
- 2.3. The plug must be connected to a suitable and easily accessible power socket.
- 2.4. The pump must be correctly earthed via a three-pin plug.
- 2.5. It is recommended that a RCD (Residual Current Device) is incorporated in the electric circuit when using the pump.
- 2.6. The pump must not be suspended or carried by the power cable. Suitable suspension cord is provided.
- 2.7. If it is necessary to extend the power cable, this should be carried out by a qualified electrician only, in order to ensure that all connections are waterproof.
- 2.8. The manufacturer shall decline all responsibility if the governing health and safety laws are not observed which permit a safe and correct use of the pump and electrical connections.

**3. Installation**

- 3.1. Securely attach the suspension cord (provided) to both brackets at the top of the pump. Make sure the pump's weight completely rests upon the suspension cord, and not on the discharge hose or the power cable. (Fig, 1)
- 3.2. Fit an appropriate 3/4 inch pipe or hose to the pump's outlet, using the connector provided (Fig. 2).
- 3.3. For best results clip together power cable, delivery hose and suspension cord at intervals of 1-2 meters, with the first clip placed 20-30 cm from the pump.
- 3.4. Do not exceed the maximum submersion depth of 10 metres.
- 3.5. Do not use the pump if water temperature exceeds 35°C.
- 3.6. To ensure optimum performance, place the two protective rubber rings (provided) on the lower and upper part of the pump's body, especially if it is likely to come into contact with the external walls of a well, tank etc.

**4. Maintenance**

- 4.1. Make sure the pump is disconnected from the mains supply before carrying out any service or maintenance.
- 4.2. Regularly check the water inlets at the bottom of the pump for to ensure there are no blockages.
- 4.3. When not in use, disconnect the pump from the mains, rinse, drain out and store in a dry place.

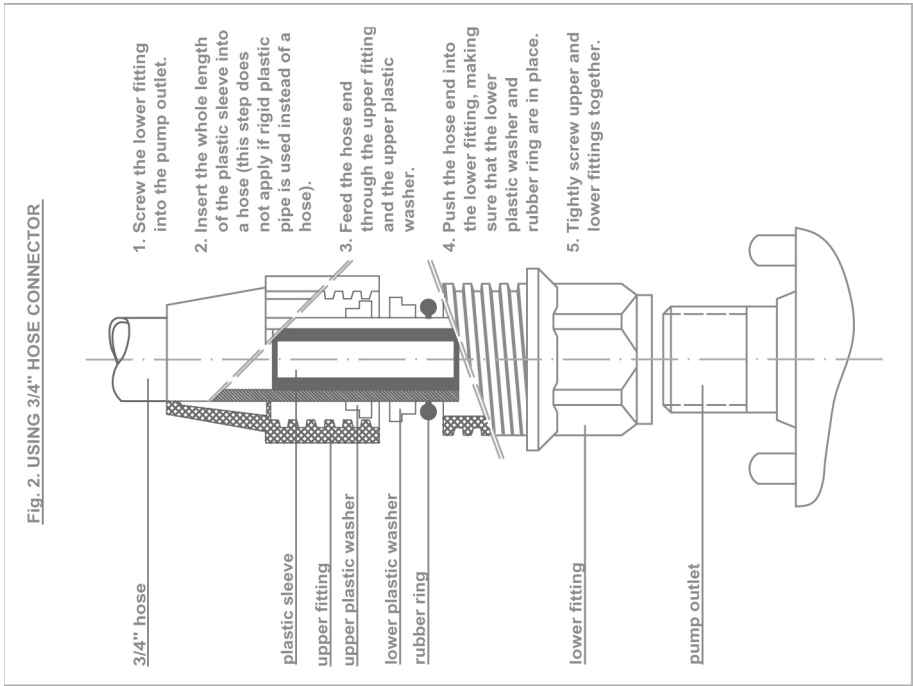
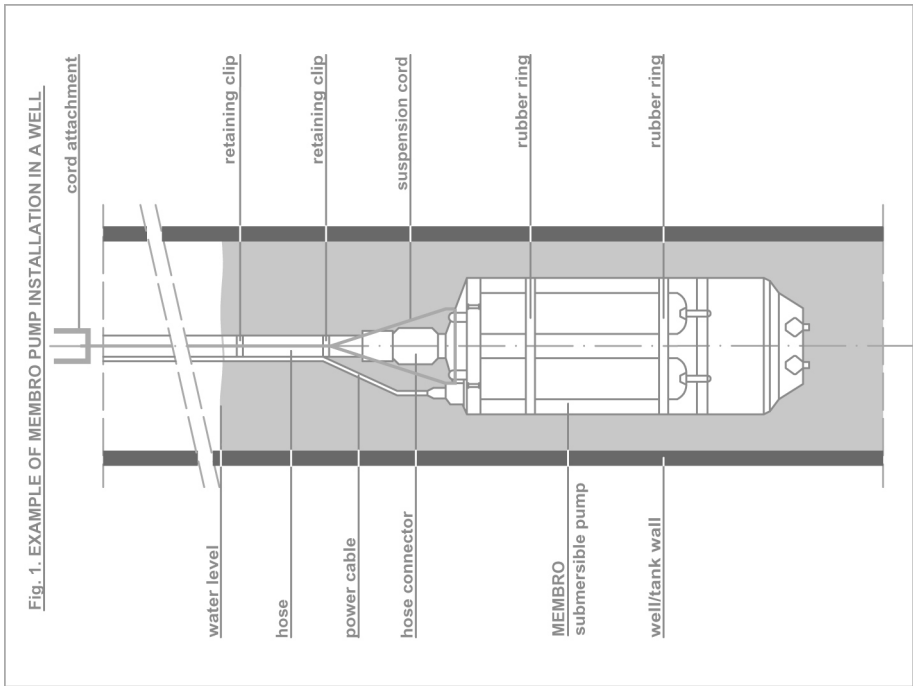
**5. List of components**

- 5.1. Membro submersible pump
- 5.2. Power cable (15m)
- 5.3. Suspension cord (10 m)
- 5.4. 3/4" hose connector
- 5.5. 2 x protective rubber rings
- 5.6. User instructions

**6. Technical data**

Diameter	85 mm
Height	315 mm
Weight	3.0 kg (6.6 lbs)
AC voltage	230V 50Hz
Power	220 Watt
Max. pressure	6 bar
Max. lift	60 m (197 ft)
Max. flow	1,800 l/h (6.6 gpm)
Power cable	15 m H05RN-F 3x0.75
Hose connection	3/4" threaded
Max. water temperature	35°C
Housing	Aluminium

Head (metres)	Flow rate (l/h)
0	1800
5	1350
10	1200
15	1080
20	900
30	600
40	450
50	300
60	150



**Safety warnings**

- 7.1. Operate the pump only when it is totally submerged in water.
- 7.2. Never run the pump dry.
- 7.3. Do not run the pump when the power cable or supply socket is damaged.
- 7.4. Do not cut off the plug in order to extend the power cable.
- 7.5. If extension cable is required, only use a cable suitable for use with water appliances.
- 7.6. Make sure electrical connections are always kept dry. Consult an electrical equipment dealer or a qualified electrician if waterproof connection is required.
- 7.7. Do not touch the electric pump when in operation. Should you need to move the pump while placed in the water, make sure it is disconnected from the mains.

**8. Guarantee**

- 8.1. This product is guaranteed for 12 months from the date of purchase, if it is found to be defective in material or workmanship.
- 8.2. Proof of purchase will be required for any claim.
- 8.3. The guarantee does not cover damage resulting from any unauthorised attempts to repair or from any use not in accordance with the instructions.
- 8.4. Although the pump can be used to transfer water with floating solids of up to 4mm, the guarantee does not cover the wear and tear resulting from pumping excessive amounts of such solids.
- 8.5. Return the defective product with a brief description of the problem.



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