

**MOBILE PUMP OUT UNIT FOR BLACK & BILGE WATERS  
FROM BOATS**

**MODEL: MF/MB**



## 1. DESCRIPTION

Unit is composed of:

- galvanized trailer with dimensions L=2000mm, W=800/1000mm, H=1400mm, equipped with weathercloth
- coil for suction hose
- suction hose diameter 1 ½ ", length 20 meters, equipped with fast connection
- special nozzles complete for black water tanks on boat
- peristaltic pump equipped with 2 pcs. of pulse dampeners
- el. motor 2,2 kW
- el. control panel
- connections for hoses
- PEHD tank capacity 200, 300, 500, 1000... lit.

## 2. OPERATING PRINCIPLE

For power feeding of the unit use 3-core extending cable of 2,5 mm<sup>2</sup> section for the total length of cable up to 50 mtrs. In case the length of cable needed is over 50 meters, depending of the actual length, use cable of wider section.

For pumping out the waste water locate the trailer close to the boat. Connect the cable on the plug fixed on the electric box of the unit. On suction pipe connect one of the fitting connections which fits the waste water tank connection on the boat. Open the valve on the suction pipe. On the unit's electric box put the switch from position 0 to 1. Chosen position 1 serves for the suction (inlet).

With moving the main switch on electric box in position START start the pump.

When whole quantity of waste water is pumped out from the boat leave the pump in open position until the suction pipe and pump will be completely emptied. Then switch off the main switch to position STOP. Chosen switch return back to position 0 and disconnect the power cable.

Transfer the trailer to the position for emptying. Connect the power cable. The top of the suction pipe (which in this case serves as a discharge pipe) put into the place for emptying the tank positioned on the unit in which has been pumped the waste water from the boat. Open the valve on the pipe. On the unit's electric box put the switch from position 0 to 2. Chosen position 2 serves for discharging.

Start the pump with moving the main switch on electric box in position START.

When whole quantity of waste water from the unit's tank is pumped out, leave the pump in open position until the discharge pipe and pump will be completely emptied. Then switch off the main switch to position STOP. Chosen switch return back to position 0 and disconnect the power cable.

Use protect gloves for above operation.

Unit can be used only for one type of waste waters. Or for bilge or for black waters.

## 3. ELECTRIC PANEL

Power supply 380V/50Hz/3phase. On request we can supply el. motor with power supply 220V/50Hz/1phase.

#### **4. DIMENSIONS AND WEIGHT**

MODEL	width (mm)	length (mm)	height (mm)	weight (kg)
<b>MF/MB</b>	800/1000	2000	1400	300

#### **5. UNIT IS PRODUCED AS PER EUROPEAN REGULATIONS**

- Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC
- Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC
- DIRECTIVE 2006/95/EC of the European Parliament and of the Council of 12 December 2006 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits

**Unit can be produced as per customer's requests. Type of trailer, capacity of tank etc..**

One of examples is shown on below photo:

