



Geared to Serve



Marpoil Oil Discharge Monitor

万宝排油监控系统

IMO Resolution MEPC. 108(49)

Viking Engineering Pte Ltd

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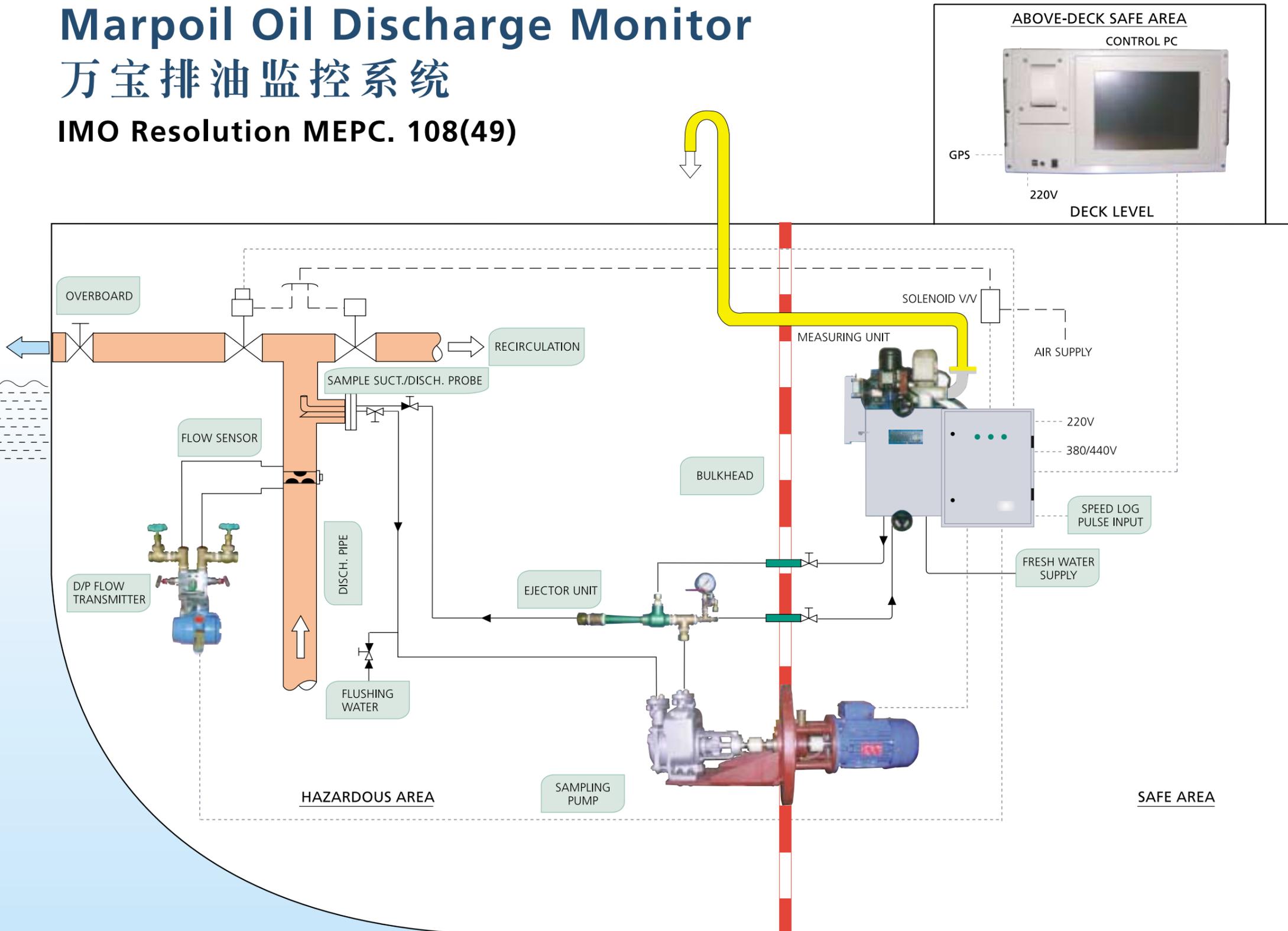


Manufactured by Viking Engineering Pte Ltd, Singapore

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System Main Components

- Control PC:**
 Dimension – 500x300x160 mm;
 Weight – 10 kgs
 Power – 220 VAC, 1-PH, 50-60 Hz, 0.5 kW
 Input – GPS signal
- Measuring Unit:**
 Dimension – 850x625x225 mm;
 Weight – 135 kgs
 Power – 220 VAC, 1-PH, 50-60 Hz; 380V/50Hz, (440 V/60 Hz), 3.5 kW
- Fresh water supply – 12 l/min, 4-8 bars**
 Input – Speed log signal up to 1000 pulses per nautical mile
- Sample Feed Pump:**
 Length – 870 mm; Weight – 90 kgs
 Power – 380 V/50 Hz, 1.1 kW (440 /60 Hz, 1.4 kW)
 Capacity – 35 l/min against 35-60 m.w.g.
- Ejector Unit: Length – 450 mm; Weight – 4 kgs**

Special Features

- No consumables.
- Automatic self-calibration.
- Automatic flushing before and after use.
- One-piece sampling pump with bulkhead penetration ready for installation.
- Two diameter 26 mm bulkhead penetrations for sample water.
- System design provides for low installation cost.

Advantages of Marpoil ODM

- Simple and compact design, easy installation and maintenance.
- User-friendly Control PC in the control room for system operation.
- Most components are installed in the engine room for easy maintenance.
- Flow sensor is of Pitot tube design, which gives better accuracy and measure wider range of flow.
- The measuring unit is cleaned by fresh water flushing automatically; chemical washing is not necessary.
- Separate fresh water tank for the system is not required.
- Approved and up-gradable to monitor oil like noxious liquid substances.
- Worldwide service support and full inventory of spare parts available.

Introduction

The Marpoil ODM provides for the detection of oil particles and elimination of the effects of non-oil contaminants in a continuous flow of sample water. The sample water is preconditioned with a de-aerator followed by a high shear emulsification process, and then enters a measuring cell with two cylindrical glass cells through which light within the red spectrum is passed. The signals are transmitted to and tested in a microprocessor for identification of the content and measuring of the oil contaminants. The results are sent to the control PC where the ship staff monitors the discharging operation.