JOWA EMULSION BREAKING UNIT (EBU)
General

JOWA Emulsion Breaking Unit is designed to break apart water in oily water emulsions. The unit separates up to 80% of the water in the emulsion. The treated water is then fed to an IMO MEPC 107(49) approved filter type/bilge water separator. The residue is pumped to the concentrated sludge tank.

Function

The system is operating automatically, in a step-by-step program (PLC controlled). The working principle is flocculation.

1. When the system starts to fill up the settling tank with emulsified water, the emulsion breaking chemical is added, and mixed with the emulsified water and at the same time pH-adjusted. To end the first step, the oil from last batch is discharged to the sludge tank.

2. During settling time the chemicals will break the emulsion, and create 3 different layers. (settling time is adjustable)

3. After the settling, the system will start to discharge. The bottom layer is discharged to the sludge tank and the treated water to the oily water separator. The top layer will remain in the tank. All are controlled by a turbidity sensor.

4. The system can be operated manually.

All alarms will be shown at the LCD display.

Parameter

Capacity 8 ~ 32 m³/24h
Manual- or auto- operation
Skid mounted in two sections
Incorporates dosage pumps, discharge pump, valves and PLC control system

MAIN FEATURES

- COMPACT DESIGN
- EASY TO INSTALL
- PLC BASED CONTROL SYSTEM
- VIBRATION PROTECTING SYSTEM
- UNAFFECTED OF ROUGH SEA

The JOWA Group

JOWA has for many decades been a reliable supplier to the shipping industry of environmentally related equipment. We have oily water treatment series such as Oily Water Separator, Emulsion Breaking Unit, ODMCS; the water equipment series include Fresh Water Generator, Filter, AgS/UV Sterilizer, Sewage Treatment Plant, etc. Services are provided for Installation, Maintenance, Supervision and Commissioning of JOWA equipment either by our own staff or by our trained representatives worldwide.

We reserve the right to make changes without prior notice.

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