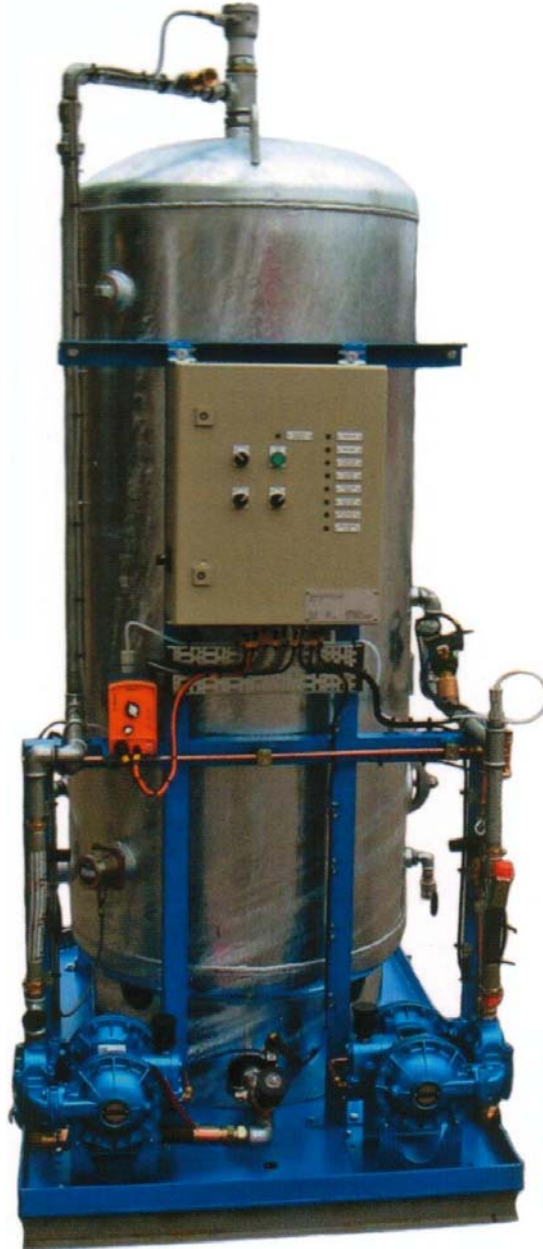
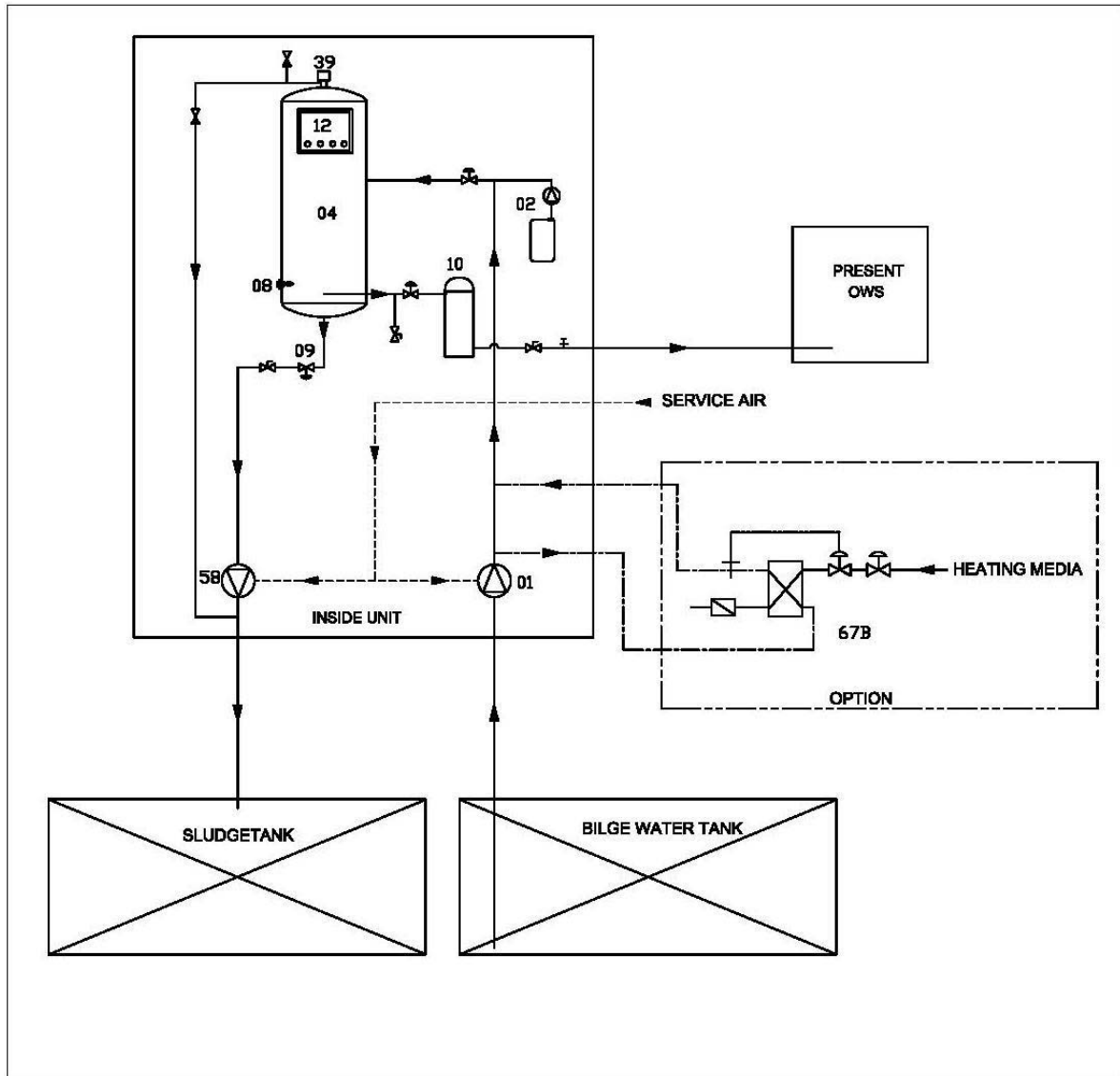


## Emulsion Breaking Pre Treatment unit for up grading of existing OWS



### EB Pre-T 1 000

The **MARINFLOC Pre-T** is a Bilge/Oily Water pre-treatment unit designed for up grading of the present standard OWS onboard smaller ships. The up graded Bilge Water System will then be able to break down emulsions. The **MARINFLOC Pre-T** does not need a certificate of it's own, since it is a Pre- treatment unit.



### A brief description of the system

To get the best result, the Bilge Water has to be pre-heated to about +50 C° but < +60 C° before it's fed in to the **Pre-T** system. The pre-heated Bilge Water is by the feed pump (01) fed into the Flocculation Tank(04). On its way to the flocculation tank the Bilge Water is dosed (02) with a flocculent. The dosage will be in the range of 200 – 300 PPM depending on the quality of the bilge water. When air/vapour or free oil is detected, the detector (39) will keep the drainage to the sludge tank open. When emulsions or/and water is detected the detector (39) will close. In order to remove all free oil and to ensure that the tank (04) is full, the pumping will continue for a short period of time. Then the feed pump (01) and dosage pump (02) stops. The Flocculation- and settling sequence starts and will continue for about 20 – 45 minutes. When the flocculation- and settling sequence is at end, valve no # 3 will close, valve # 7 opens and a signal will be given to the existing OWS to start up. I.E. the OWS now draws from the **Pre-T** flocculation tank (04) via a filter stage (10) through the OWS and over board. When the LL switch (08) at the flocculation tank is activated, the OWS stops. The drain valve (09) opens and the drain pump (58) starts to pump the flocks and sediments into the Sludge Tank. Assuming the "ON" switch at the Pre-T control cabinet is activated, the complete cycle starts again.

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