Settling Tanks for Bilge Water

Process description

Settling of oil and sediments will relieve the oily water separator from an unnecessary load and this is achieved optimally in settling tanks instead of double bottom tanks that will be subdued to cooling from the surrounding sea and also highly affected by vessel pitch and roll given the shape and design of a double bottom tank.

The settling tanks are automatically filled at the same rate as the Oily Water Separator is draining them to prevent stirring up sediments that has settled. The two tanks are connected in series where tank one overfills to tank two so that oil will be trapped in tank one. Oil, if present, has a lower density than water so the level in tank one will be higher and the oil will be drained through a funnel in the first tank to the vessel oily sludge tank.

Heat is essential for successful settling and 55°C/131°F is optimal. This is secured by heating coils or electrical heaters depending on what heating media is available onboard. The tanks are delivered with automatic temperature regulation and control.

Marinfloc can deliver all control equipment if a hull integrated tank is used and please contact us for assistance with drawings and design.

Settling tanks will make the bilge water composition more homogenous and hence simplify the job for the oily water separator, regardless of model or type.