

## **BAWAT BWMS FOR CRUISE SHIPS**

- **GREEN TECHNOLOGY**
- **NO OPEX**
- **REDUCED FOOTPRINT**

### **BWMS FOR CRUISE SHIPS**

Cruise ships need to be conscious regarding what they discharge because they venture into ecologically fragile areas where other commercial vessels normally do not trade.

As the Bawat Ballast Water Management System (BWMS) is treating water in voyage, the ship's crew can fully concentrate on other operations while in port. There are no disruptions as the system is not running at this point.

Bawat is addressing this by offering a BWMS that is driven by waste energy from the main engines and built on standard marine components.

Cruise ships generally carry very little ballast water. The ballast water tank is often located in the stern or aft of the ship and is used to adjust the trim or draught. Cruise ships mostly have uptake of ballast water at sea to avoid sediment in the ballast tanks.

Cruise ships have a very suitable profile for the Bawat BWMS because they have high-powered main engines and other heat sources.

The system is designed to fulfil the actual needs for treatment of ballast water resulting in a small footprint. Bawat's BWMS has no filters and no consumables resulting in negligible OPEX for ship owners.



## BAWAT BWMS ONE-PASS TECHNOLOGY

The Bawat BWMS is the world's first in-voyage and no-filter ballast water management system utilizing onboard waste energy to treat water.

The Bawat BWMS is a One-Pass BWMS meaning ballast water is treated after passing through the system once – no secondary treatment or neutralization is necessary.

The technology behind is pasteurization. In this process all foreign species are killed and the ballast water becomes D2 compliant.

## CHOICE OF BAWAT BWMS

When cruise ship owners choose a Bawat BWMS they select a robust, easy-to-handle and sustainable BWMS solution, securing a cruise ship a truly green Ballast Water Management Treatment.

This unique approach to ballast water treatment aims at keeping the total cost of ownership as low as possible and at the same time making the operational set-up as easy as possible.



The system consists of well-known standard marine components, making it easy to operate and simple to maintain.

## MAIN FEATURES

- Low OPEX
- Green profile – BWMS powered by waste heat
- No filters = no clogging
- Independent of salinity and turbidity of the sea water
- No holding time
- Not fragile to vibrations
- One-pass treatment
- No consumables

## IN-VOYAGE TREATMENT / PERMANENTLY AVAILABLE WASTE HEAT

