

MIURA CO.,LTD.

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**MIURA's ballast water management system HK is the first in Japan to have obtained USCG type approval for its filtration method with UV treatment**

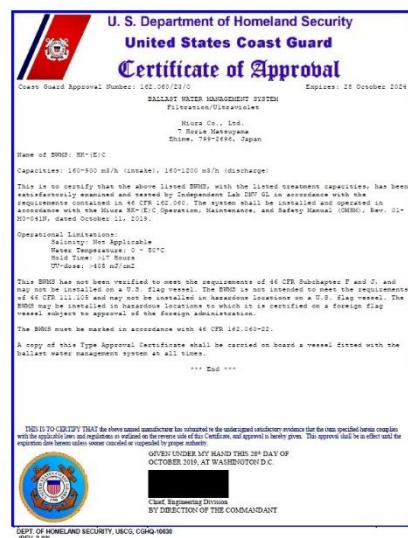
MIURA CO.,LTD. (Head Office: Matsuyama, Ehime; President & CEO: Daisuke Miyauchi), Japan's leading manufacturer of industrial boilers, on October 28, 2019, became the first manufacturer in Japan\*<sup>1</sup> to obtain the type approval certificate from the USCG\*<sup>2</sup> for its ballast water management system HK that uses the filtration method with UV treatment.

The USCG type approval certificate is required for any vessel that enters a U.S. harbor by the ballast water treatment regulations of the United States Coast Guard. Ballast water treatment system manufacturers around the world today seek to obtain this USCG type approval. Because using the filtration method with UV treatment does not entail the use of harmful substances in the treatment process, it offers the strong point of producing treated water that does not have an impact on the organisms in the area where water is discharged. MIURA uses this environmentally friendly method.

Japan has one of the largest maritime business clusters in the world. MIURA's marine businesses have won praise for the results we achieved over the course of a half century. Furthermore, we have obtained a certificate that has been expected among those who wanted to use equipment from Japanese manufacturers.

Also, our HK system developed in-house saves space, conserves energy, and reduces labor needs. It has been put into operation on more than 750 units so far, and many customers are putting it to work. Through our future efforts at manufacturing new ships with the ballast water management system HK, and retrofits\*<sup>3</sup> for existing ships, we will satisfy the desires of our customers while we prove our performance in engineering, installation supports, and trial cruises for different ship types.

Furthermore, as a company that will contribute to creating a society that is environmentally friendly and ways of living that are clean and comfortable through our work in the field of the energy, water, and environment, including through its efforts to



▲ USCG type approval certificate: 162.060/23/0

help protect maritime environments around the world, we offer a variety of products in this vein around the world.

- Target sales number of units:  
1,200 units in total (end of fiscal 2020)

\*1: By MIURA's own research

\*2: USCG = An abbreviation for the United States Coast Guard

\*3: Retrofit: Installation of equipment in ships already in service

## **Reference Materials**

### **What is ballast water?**

Ballast water is the sea water that a ship takes on board when it is unloaded or the load it is carrying is light. Taking on an appropriate amount of ballast water in proportion to load weight makes it possible to maintain the propulsion efficiency of the propeller(s) and rudder efficacy, as well as guarantee an appropriate draft line (center of gravity) for safe and efficient navigation.

### **The ballast water problem**

In recent years, there have been reports from around the world about damage to ecosystems and economic harm caused by ballast water. Since ballast water basically is taken on board at the port of loading and discharged at the port of unloading, if those ports are in different countries the aquatic organisms in the ballast water will be moving around the world. Some put the volume at 3 billion tons per year, while others say it is 10 billion tons. The instances in which organisms that do not usually inhabit a particular area are having an impact because of having been moved like this naturally are leading more and more people to point out the environmental and economic risks that this is expected to have in the future.

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