

The Best Partner of
Energy, Water and Environment

MIURA

Ballast water
management system

HK

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MIURA

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ISO 9001 **ISO 14001**

Quality assurance system for boiler
and water treatment systems and
on-line maintenance service

Our head office and Hojo factory are
sites with a registered environmental
management system.

CAUTION In order to use the product safely, be cautious of safety and always read the "Operation Manual" before use.

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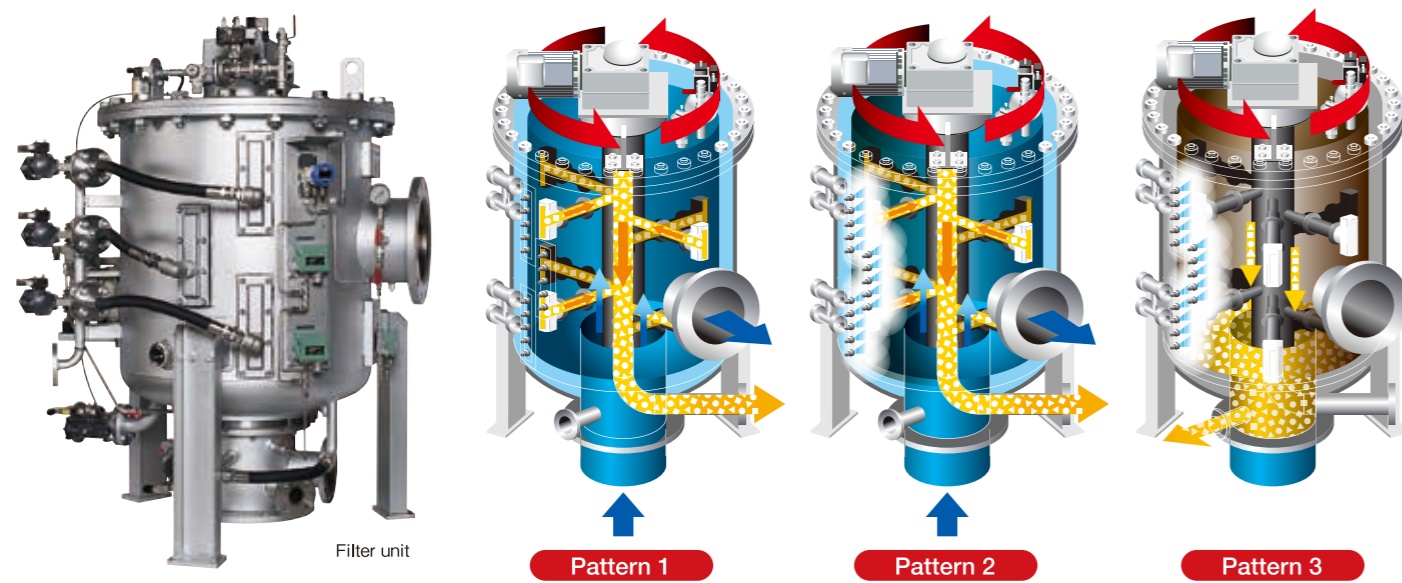
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An original cleaning system to maintain the capture performance of the filter

MIURA has developed a filter with an innovative structure that makes filter cleaning possible at the same time as the capture of the organisms in the ballast water. With MIURA's unique multi-stage cleaning function, the maintainability and performance are supported and the capturing function of the filter is maintained. The filter is always maintained in a clean state, so it does not require the time and effort of the crew of the vessel and the primary duties in cargo handling can be performed smoothly.

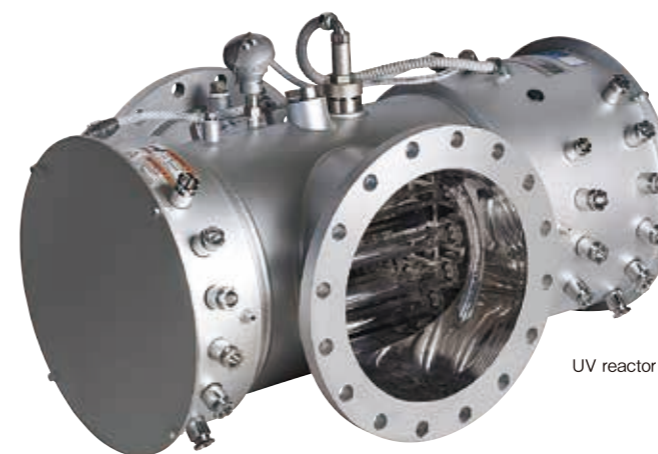


The three MIURA original cleaning patterns preserving the filter performance

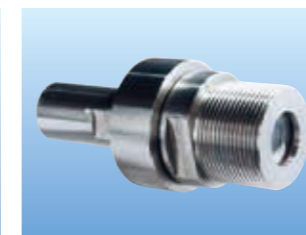
In order to reduce the clogging of the filter, a function is included that can clean the filter element in multiple stages. With these three cleaning patterns, high pressure jet cleaning is performed from the outside of the filter element to keep the filter clean at all times and preserve the filter performance.

Reliable sterilization of organisms with a uniquely developed UV irradiation method

MIURA started the installation of the independently developed BWMS from 2014. As we have accumulated proven results in the installation of the system, we have also received favorable evaluations of the sterilization performance for S-sized and smaller organisms and for fungi. We are implementing repeated improvements to reduce power consumption and extend the service life and are aiming for further quality improvements. A cleaning function has been included inside the UV reactor to reduce the maintenance work that the crew of the vessel must perform.



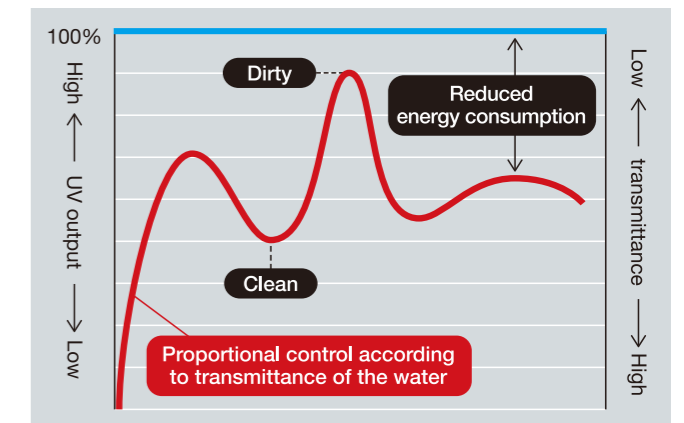
UV power supply



UV sensor

Proportional control operation to realize reduced electricity consumption and longer service life

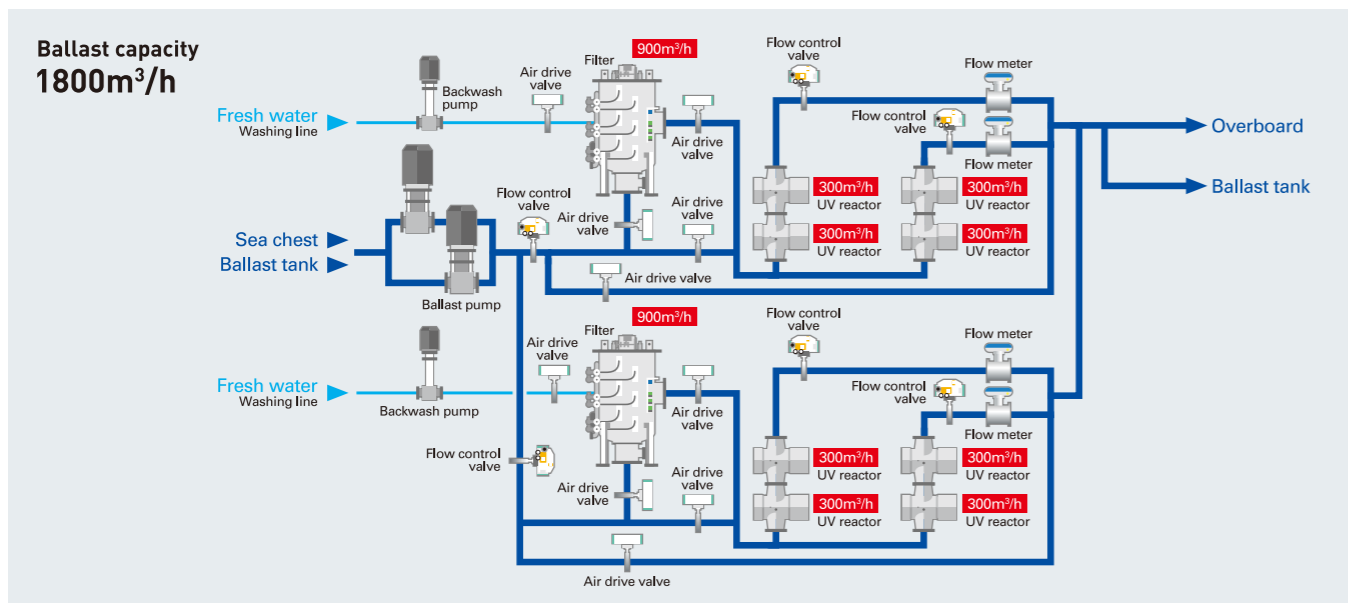
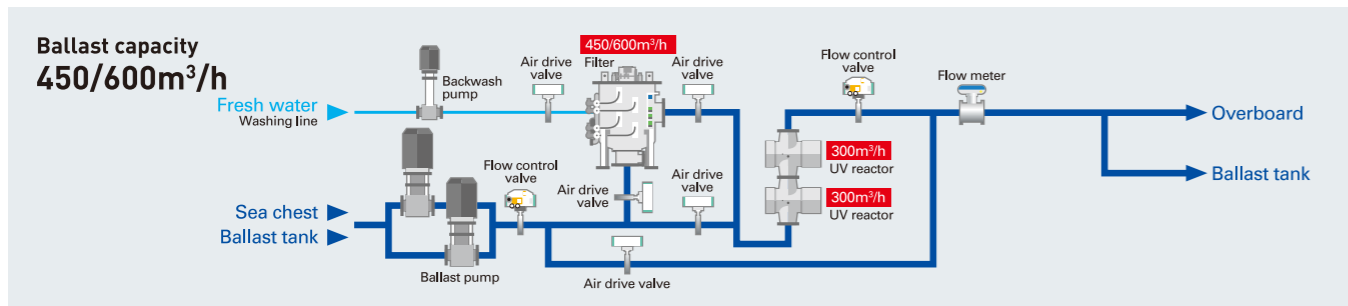
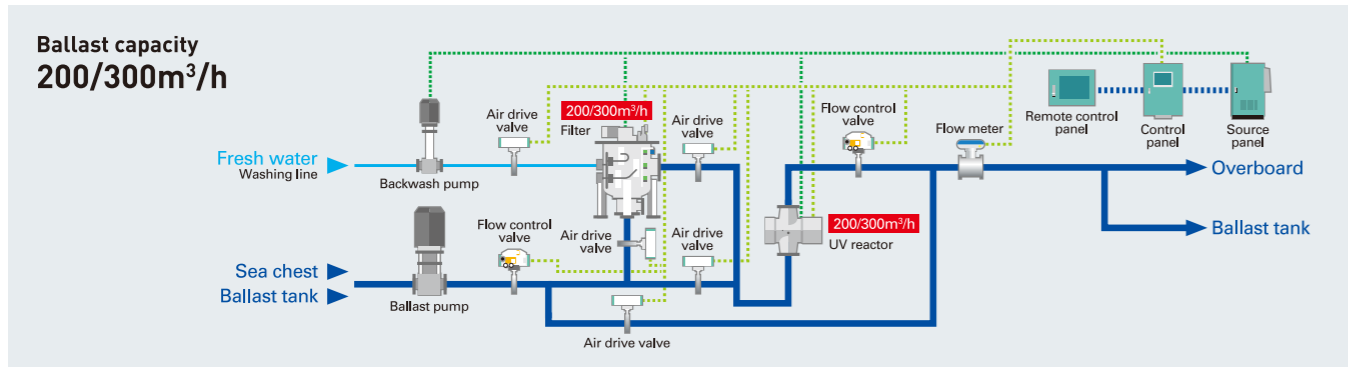
The short service life of UV lamp was previously the disadvantage of UV irradiation, but we have improved this with a method of operation that uses proportional control. A UV sensor monitors the UV illumination intensity and the amount of UV irradiation is controlled. This saves electricity and extends the service life.



Example filter and UV reactor configurations

Select the capacity of the filter and UV reactor according to the ballasting and deballasting capacity.

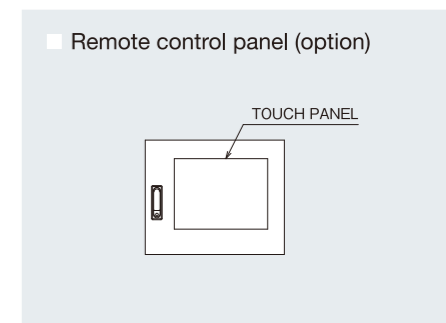
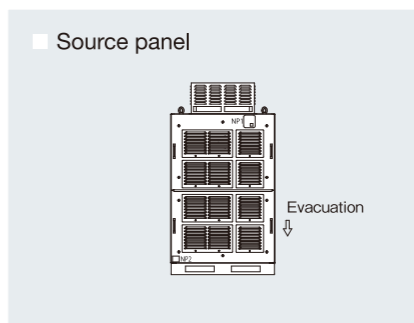
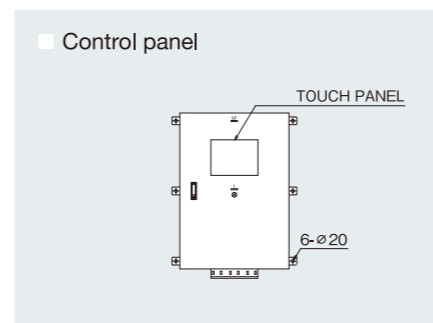
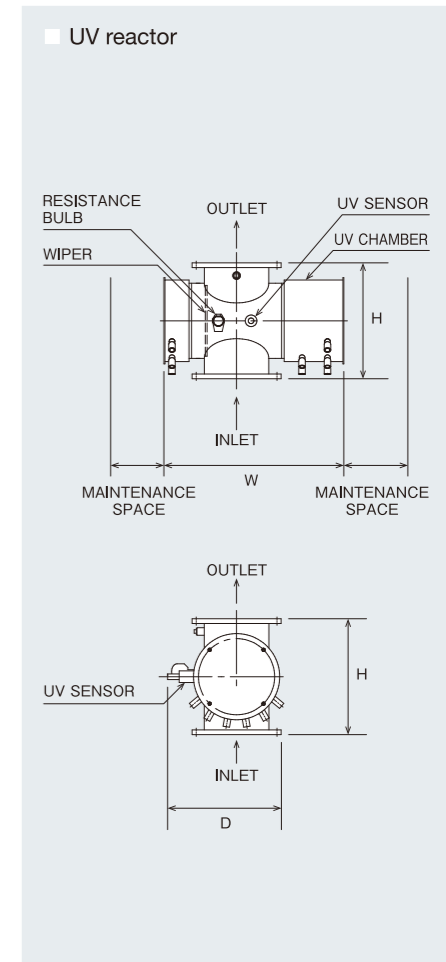
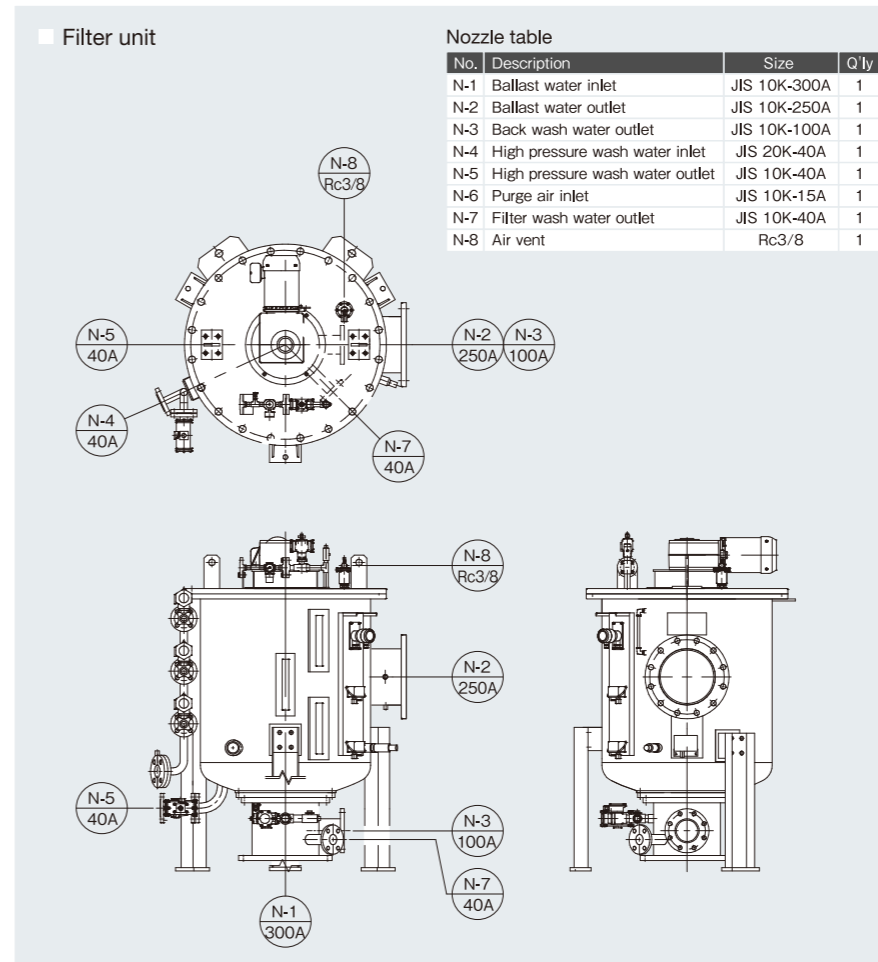
* The following figures are typical examples of BWMS Code, HK-C, and HK-R.



Filter	UV reactor	Capacity [IMO]		Capacity [USCG: Type C]		Capacity [USCG: Type R]	
		Ballast	Deballast	Ballast	Deballast	Ballast	Deballast
200F	06U	200	200	—	—	200	200
	10U	200	300	200	200	—	—
300F	08U	300	300	160	160	300	300
	12U	300	300	300	300	—	—
450F	06U × 2	400	400	—	—	—	—
	08U × 2	450	600	320	320	450	600
	12U × 2	450	600	400	400	—	—
600F	08U × 2	600	600	320	320	600	600
	12U × 2	600	600	600	600	—	—
900F	08U × 2 + 08U	900	900	480	480	900	900
	12U × 2 + 12U	900	900	900	900	—	—
	08U × 2 + 08U × 2	900	1200	640	640	900	1200
	12U × 2 + 12U × 2	900	1200	900	1200	—	—

* The above equipment configurations are typical examples. Contact a MIURA sales office for information on other configurations.

Basic specifications and external views



Equipment name	Standard flow rate [m³/h]	Dimensions (H × W × D) [m] *	Diameter (in/out) [A]	Weight [kg]
Filter 200F	200	1445 × 1200 × 1095	300 / 250	800
Filter 300F	300	1610 × 1195 × 1095	300 / 250	900
Filter 450F	450	2000 × 1200 × 1075	400 / 350	1300
Filter 600F	600	2050 × 1485 × 1435	400 / 350	1700
Filter 900F	900	2615 × 1510 × 1435	450 / 400	2000
UV reactor	200/300	640 × 990 × 625	350 / 350	205
Control panel		1060 × 800 × 300		90
		1660 × 800 × 300		150
Source panel		1630 × 910 × 740		460
		1920 × 910 × 740		560
Remote monitoring panel		370 × 450 × 170		15
Power supply voltage	Source panel AC440V 60Hz 3ø, Control panel AC110V~220V 60Hz 1ø			
Design pressure	0.7 MPa			

* Space for maintenance is not included.