Creating the Future
SATAKE

VIABLE ORGANISM SAMPLER

BALLAST CATCH

VOS01SP

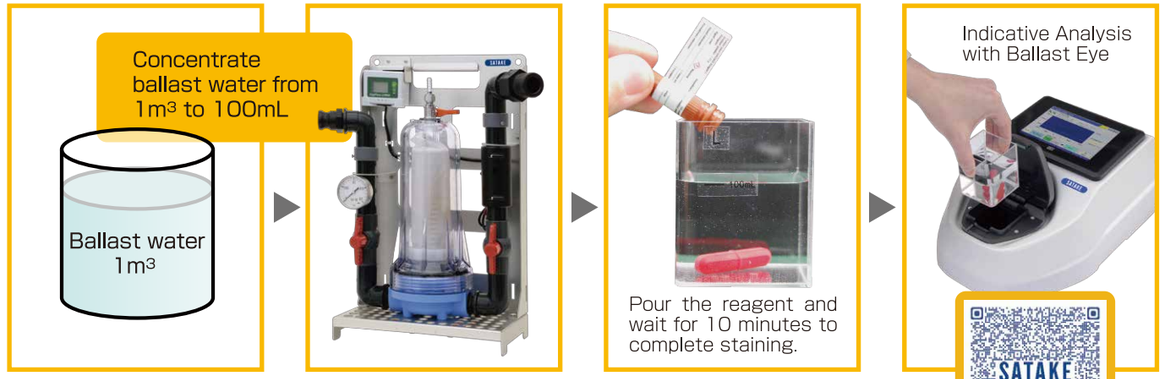
SATAKE CORPORATION

BALLAST CATCH
BALLAST EYE

Best combination of Ballast Catch and Ballast Eye

Analysis for ≥50μm organisms

It is important to inspect ≥50μm organisms which are likely to survive in treated ballast water.

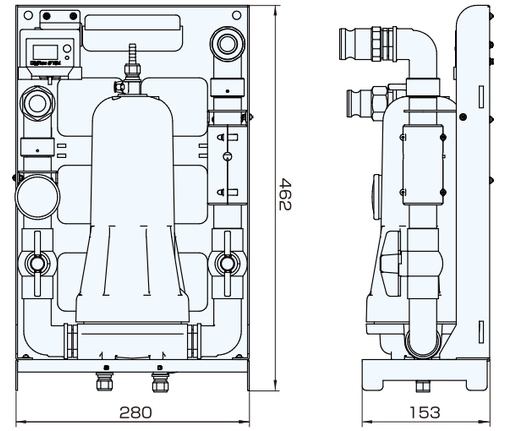


Ballast Catch is specifically designed as a sampling device to be used for indicative analysis with Ballast Eye.

Specifications

Name	VIABLE ORGANISM SAMPLER
Model	VOS01SP
Sampling Target	≥50μm and 10-50μm organisms (in minimum dimension)
Time For ≥50 μm	Approximately 30min/1m³ at 0.05MPa
Equipments	Flow meter (AA battery×2), Pressure gauge
Accessories	Sampling port connection flange Water supply and drainage hose Carrying backpack
Weight	3.6kg

Dimensions (mm)



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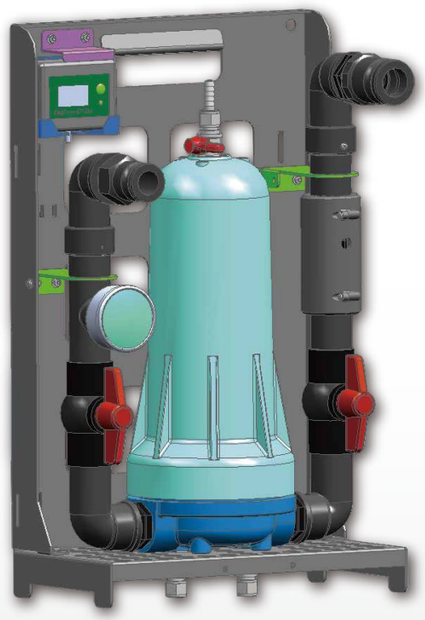
ISO 9001 Certification (Quality Management Systems) ISO 14001 Certification (Environmental Management Systems)	SATAKE CORPORATION has obtained ISO9001 and ISO14001 certification. These international standards for management systems ensure Satake will continue to provide high quality products and services.

No. 7013-00

Securely catch ≥ 50um organisms which are likely to survive in treated ballast water.

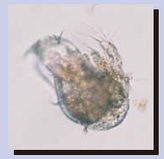


- Collection Example -

≥50μm organisms

Balanus (cypris)

Bivalvia (umbo)



Nauplius

Polychaetes

Ballast Catch is a compact sampler that can concentrate ballast water easily and quickly for indicative analysis. It can collect samples of both ≥ 50μm (Large-size) and 10-50μm (Small-size), required by the IMO ballast water discharge standard (D-2).

※IMO Ballast Water Management Convention regulates the discharge of ballast water that does not meet D-2 standards.
※Less than 10 viable organisms of ≥50 μm in minimum dimension per 1m³, and less than 10 viable organisms of 10-50 μm in minimum dimension per 1mL.

Feature1. Portable

Plankton net, a conventional method used to concentrate ballast water on board, takes time and the tools are big.
Compact design Ballast Catch and accessories such as hoses and sampling bags can be stored in a carry-on size backpack.

Easy to carry onboard!!

BALLAST CATCH

Feature2. Quick and Easy

Conventional method

Plankton net

Need to prepare flow meter and piping and the setting takes time.

Our Method

1. The unit can be mounted onboard easily with hooks or bands.
2. Just connect the piping, then run the ballast water.
3. Concentration of ballast water.
   Sample volume can be monitored by the flow meter.
   Sample can be collected from the sampling valve.

Concentration time for ≥50μm organisms is approximately 30min/1m³ and may fluctuate based on the pressure and quality of ballast water.

Installation Example

Flow meter

Ballast water inlet from sampling port

Sampling valve

Mounting on handrail

Ballast water outlet

No power source required!

Discharges filtered water by the sampling port pressure.

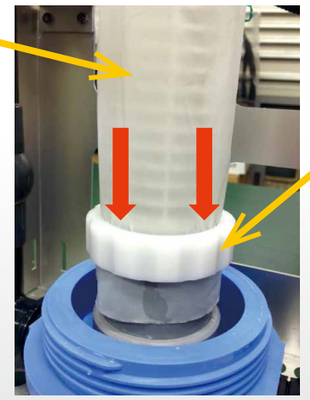
Feature3. Highly reliable

Nylon mesh filter

The Ballast Catch uses the same material as plankton net, minimizing the damage to organisms during sampling.

High reliability with disposable filter!

Disposable filter prevents contamination for accurate indicative analysis.



The filter can be attached easily and securely with a set ring.

Collection performance is comparable to plankton net.