

**MARINE DIVISION**

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**Certificate number:** 14288/A1 BV

**File number :** ACM 201/1305/03

**Product code :** 8108H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

## TYPE APPROVAL CERTIFICATE

*as per Bureau Veritas Classification Rules*

*This certificate is issued to*

**MARINFLOC AB**

Varekil - SWEDEN

*for the type of product*

### CONTROL DISCHARGE SYSTEM OF OILY WATER OVERBOARD

White Box System (WBS)

**Regulations and standards :**

BUREAU VERITAS Rules for the Classification of Steel Ships/ MARPOL 73/78, as amended, Annex I, Regulation 16

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.*

**This certificate is valid until : 03 Dec 2009**

At Paris la Défense, on : 26 Jul 2005

**For BUREAU VERITAS,  
By order of the Secretary**

Approval office

Local office : BV GOTHENBURG

  
J. BENOIT



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION**

#### **White Box System (WBS)**

##### 1.1 Design

- The White Box System is designed as a fail safe system for the discharge of water overboard, incorporating an approved oil content meter and the return of water functions in a locked cabinet on the overboard line. This offers assurance to vessel operators that effluent water with an oil content not exceeding 15 ppm of oil cannot accidentally be pumped overboard.
- The White Box System basically includes the pressure control valve, the oil content meter, the flow control box, the 3-way valve, the flow meter, the flow switch, the 3-way rinse valve and a recorder.
- When a White Box System manufactured by Marinfloc is installed in series after a CD-unit, the oil content meter in the CD-unit can be replaced by the oil content meter in the White Box. In this case it shall be integrated with the CD-unit. The installation shall be carried out as per the drawings N° CD 7-0023-CD+WBS; N° CD 7-0023-CD+WBS+CBT; N° CD 7-0010 Overview CD+WBS.

##### 1.2 Material

As per manufacturer's list.

### **2. DOCUMENTS AND DRAWINGS**

#### 2.1 Drawings:

- N° 5-1006 R1 - White Box Fail System - Component description
- N° 5-1004 R0 - White Box Fail System for overboard pumping of water
- N° 5-1005 R2 - White Box Fail System for overboard pumping of water
- N° 5444123-001-01 R0 Pages 1, 2, 3 - Control cabinet Overboard water control layout
- N° 5444123-001-01 R0 List of components - Control cabinet Overboard water control layout
- CD 7-0023-CD+WBS Principle diagram CD+WBS with connection dimensions
- CD 7-0023-CD+WBS+CBT Principle diagram CD+WBS+CBT with connection dimensions
- CD 7-0010 Overview CD+WBS

#### 2.2 Documents

- N°5 Service bulletin dated 18/12/2003
- Operating and maintenance instructions

### **3. TEST REPORTS**

Not applicable.

### **4. APPLICATION / LIMITATION**

4.1 The WBS will be accepted on board Bureau Veritas classed ships as a fail-safe system for the overboard discharge of the water. The WBS will be arranged downstream of the 15 ppm bilge separator outlet in accordance with the applicable requirements of either the IMO Resolution MEPC.60(33) or the IMO Resolution MEPC.107(49).

4.2 The ship Surveyor's attention will be drawn to the regulation 6.1.1 of the above resolutions requiring a sampling point for future inspection purposes. The latest resolution also requires that re-circulating facilities should be provided, after and adjacent to the overboard outlet of the stopping device to enable the 15 ppm bilge separator system, including the 15 ppm bilge alarm and the automatic stopping device, to be tested with the overboard discharge closed.

The re-circulating facility should be so configured as to prevent under all operating conditions any by-pass of the oily water separator.

4.3 It shall be the duty of an owner of a ship to which the Marpol convention applies to ensure that the Marpol equipment is of an approved type.

4.4 It shall be the duty of an owner of a ship to which the Solas convention applies to ensure that the Navigation equipment is of an approved type.

4.5 The degree of protection for electrical equipment in relation to the location of the WBS on board will be to the ship Surveyor's satisfaction.

4.6 The protection against unexpected tampering with the cabinet will be taken into consideration.

4.7 Initial and periodic surveys on board: The on-board installation arrangements should be approved for each application of WBS on board ships according to the Surveyor's satisfaction. The power supply variation should be tested.

4.8 Electrical equipment is to be type approved where so required by the requirements of the Bureau Veritas rules and should be also subjected to environmental testing as per recognized standard.

### **5. PRODUCTION SURVEY REQUIREMENTS**

5.1 No Bureau Veritas certificate for the product in finished condition is to be required but at least a manufacturer's certificate should be supplied with each WBS.

5.2 Each WBS is to be supplied with its manufacturer's installation, operating and servicing instructions.

**6. MARKING OF PRODUCT**

Each White Box System should be at least marked with:

- Manufacturer's name or logo
- Product designation

**7. OTHERS**

7.1 This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper method of fitting and general maintenance of their products and of the conditions of this approval.

7.2 This certificate supersedes the type Approval certificate N° 14288/A0 BV issued on 03/12/2004 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***