

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)

with type designation(s)

HFM-20, HFM-50, HFM-100, HFM-200, HFM-300, HFM-500

Issued to

**Heishin Pump Works Co., Ltd.
Kago-gun Hyogo Pref., Japan**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/2.1. Marpol 73/78 as amended, Annex I Regulation 14, IMO Res.
MEPC.107(49), IMO MEPC.1/Circ. 643

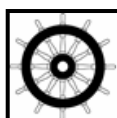
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-11-13.**

Issued at **Høvik** on **2017-11-14**

DNV GL local station:
Kobe

Approval Engineer:
Thomas Grafton



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

15 ppm Bilge Separators Type HFM from Heishin Pump Works Co., Ltd. are intended for installation onboard ships for oily bilge water separation – max.15 ppm oil contents at discharge overboard. The equipment is designed and tested to meet the requirements of the IMO Resolution MEPC.107(49).

Application/Limitation

Maximum throughput capacity;

HFM-20:	0.2 m3/hr
HFM-50:	0.5 m3/hr
HFM-100:	1.0 m3/hr
HFM-200:	2.0 m3/hr
HFM-300:	3.0 m3/hr
HFM-500:	5.0 m3/hr

The equipment is not permitted to be installed in spaces subject to explosion hazards.

Type Examination documentation

Tests carried out

Oil Content Analysis Report:

Laboratory Dr. Kaiser & Dr. Woldmann GmbH, Hamburg:

- Test Results HFM-50, dated May 10th, 2006
- Test Results HFM-200, with inclination, dated May 11th, 2006
- Test Results and Test Procedures, HFM-50, signed by DNV Kobe, 2006-07-07
- Test Results and Test Procedures, HFM-200, signed by DNV Kobe, 2006-07-07
- Type-Approval Test Record, HFM-50, attented to by DNV Kobe, 10th May, 2006
- Type-Approval Test Record, HFM-200, attented to by DNV Kobe, 11th May, 2006

Laboratory Dr. Kaiser & Dr. Woldmann GmbH, Hamburg:

- Test Results and Test Procedures, HFM-500, dated July 31st, 2007
- Type-Approval Test Record, HFM-500, dated 31st July, 2007

Environmental Testing Report:

Department of Mechanical Engineering Faculty of Hyogo, Himeji:

- Test Report, dated 10th December 2004 – Environmental Test of Electrical and Electronic Sections for 15 ppm Bilge Separator, referring vibration test, acceleration test, temperature test and humidity test of oil/ water interface detector, oil level probe and motor-driven valve.

Marking of product

For traceability to this type approval, each unit to be marked with:

- Manufacturers name or trade mark
- Type designation
- Serial No.