



Confirmation of Product Type Approval

Company Name: COMPASS WATER SOLUTIONS

Address: 15542 MOSHER AVE. CA 92780-6425 United States

Product: Oil Filtering Equipment (15 ppm Equipment)

Model(s): Ultra-Sep Bilge Water Separator US 250, US 500, US 1000 (Standard, Modular, Series C, Series G); US 2000, US 3000, US 5000, US 7500 & US 10000 (Standard, Modular)

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-GE1891303-PDA	08-AUG-2019	07-AUG-2024
Manufacturing Assessment (MA)	18-LA3580163	19-NOV-2018	18-NOV-2023
Product Quality Assurance (PQA)	NA	NA	NA

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Intended Service

For processing oily mixtures containing emulsified bilge water to produce an effluent with oil content not exceeding 15 parts per millions (PPM) by separating free and emulsified oils.

Description

Bilge Separator in accordance with IMO Resolution MEPC. 107(49), as amended, consisting of control unit, separating and coalescing system within a common shell with pump and motor, process filter and Spirolator membranes.

The Modular systems (available for all sizes) are identical in process and components to the standard systems just engineered in modules to allow for ease of installation when required due to spacing constraints.

The Series C (Compact Unit, available for sizes 250-500-1000 only) is identical in the overall 15ppm Separator process with its components and piping re-arranged to create a more compact system.

The Series G (1 Pump Design, available for sizes 250-500-1000 only) maintains the overall core of the 15ppm Separator process by relocating and increasing the capacity of the system's Process to allow removal of the system's feed pump along with updating the compact control system.

Ratings

Model/capacity:

US 250 - 0.25 m3/hr,

US 500 - 0.5 m3/hr,

US 1000 - 1.0 m3/hr,

US 2000 - 2 m3/hr,

US 3000 - 3 m3/hr,

US 5000 - 5 m3/hr,

US 7500 - 7.5 m3/hr

US 10000 - 10 m3/hr.

Tested in accordance with IMO Resolution MEPC.107 (49), and less than or equal to 5ppm achieved.

Service Restrictions

1) The capacity of each pump connected to the system is not to exceed the maximum throughput of the separating module.

2) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments

1) For ABS ENVIRO+ Notation, alarm is to be arranged to indicate when the oil content of the effluent exceeds 5 ppm. In addition, automatic stopping arrangements are to be provided for any discharge of oily mixtures when the oil content in the effluent exceeds 5 ppm.

2) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes, Drawings and Documentation

Drawing No. 00, TEi ULTRA-SEP Test Report Package, Revision: 0, Pages: 94

Drawing No. 01, CWS PDA Renewal Drawing Package, Revision: 0, Pages: 161

Drawing No. 02, USMN1000-G RevF, Revision: F, Pages: 132

Drawing No. 03, USMN1000-C Rev6.0, Revision: 6.0, Pages: 132

Drawing No. 04, USMN5000-MD Rev6.0, Revision: 6.0, Pages: 198

Drawing No. 05, USMN5000 Rev6.2, Revision: 6.2, Pages: 196

Drawing No. 06, CWS ABS Certs 2019-2024 Updates ltr, Revision: 0, Pages: 23

Drawing No. 07, PDA Application Form Jun2019, Revision: 0, Pages: 3

Drawing No. CLS-JBA-00131, CLS-JBA-00131 Rev4 EU MED Application Form, Revision: 4, Pages: 1

Drawing No. Copy of certification of the Accredited Laboratory, Copy of Certification of the Accredited Laboratory, Revision: -, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate 19-GE1891303-PDA, dated 08/Aug/2019 remains valid until 07/Aug/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules

The Rules applicable to this assessment are:

2019 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-4/5.7.2;

2019 ABS Guide for The Environmental Protection Notation for Vessels 4/5.1.3

International Standards

Regulation 14(6), Annex I of MARPOL 73/78 and Amendments;

IMO Resolution MEPC.107(49), as amended by IMO Resolution MEPC.285(70).

EU-MED Standards

European Union Marine Equipment Directive 2014/90/EU, Commission Implementing Regulation (EU) 2018/773 - Item MED/2.1 - Oil filtering equipment (for an oil content of the effluent not exceeding 15ppm).

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read 'James J. Walsh'.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 20-Aug-2019 3:21

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and

quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.