



MARINE DIVISION

Certificate number: 34794/A0 BV

File number: AP4419

Product code: 4482H

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

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

MARINER SYSTEMS (UK) Ltd

Wokingham - UNITED KINGDOM

for the type of product

MARITIME PERSONAL COMPUTERS

HP Z420 Workstation

complete with

Mariner Systems Mounting Kits MS3030 or MS3040

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

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 mentioned above.

This certificate will expire on: 18 Jun 2018**For BUREAU VERITAS,**

At BV LONDON, on 18 Jun 2013,

Spencer Yule



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 available on the internet site www.veristar.com. 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 :

HP Z420 Workstation must be used in conjunction with the appropriate **Mariner Systems Kits**:

MS3030 for Desktop configuration
MS3040 for Minitower configuration

2. DOCUMENTS AND DRAWINGS :

Mariner Systems (UK) Ltd. Assembly drawing - MS3030_A Issue 1 (desktop) dated 02 February 2013.
 Mariner Systems (UK) Ltd. Assembly drawing - MS3040_A Issue 1 (minitower) dated 02 February 2013.
 HP Z420 QuickSpec Datasheet - DA14261 Version 14 dated 15 January 2013.
 Mariner Systems Component Options sheet - HP Z420 dated 15 March 2013.

3. TEST REPORTS :

MS Testing electromagnetic compatibility report TL13011-EMC dated 07 March 2013 (Air cooled).
 MS Testing environmental compatibility report TL13011-ENV Issue 2 dated 11 March 2013 (Air cooled).
 MS Testing electromagnetic compatibility report TL13012-EMC dated 07 March 2013 (Liquid cooled).
 MS Testing environmental compatibility report TL13012-ENV Issue 2 dated 11 March 2013 (Liquid cooled).

4. APPLICATION / LIMITATION :

- 4.1 - Each Workstation must be used in conjunction with the appropriate Mariner Systems Kits MS3030 or MS3040.
- 4.2 - According to BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.3 - Approval valid for ships intended to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.4 - BUREAU VERITAS Environmental Category: **31C**
- 4.5 - The equipment fulfils the EMC requirements for installation on the Bridge and weather-protected Deck zones.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The HP Z420 Workstation is to be supplied by **HEWLETT PACKARD** in compliance with the type described in this certificate.
- 5.2 - The supporting Mounting Kits are to be supplied by **MARINER SYSTEMS (UK) LTD.** in compliance with the type described in this certificate.
- 5.3 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
- 5.4 - **MARINER SYSTEMS (UK) LTD.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

Mounting Kits:
MARINER SYSTEMS (UK) LTD.
Oaklands Park
Wokingham
Berkshire
UNITED KINGDOM

Workstation:
HEWLETT PACKARD
PO Box 692000
Houston
Texas
77269-2000
UNITED STATES OF AMERICA

- 5.5 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT :

- Maker's name or trade mark.
- Serial number of the unit.
- Equipment type or model identification under which it was type-tested.

7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the Personal Computers at any time, and that **MARINER SYSTEMS (UK) LTD., Wokingham - United Kingdom**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

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