
**Ships and marine technology —
Incinerator sizing and selection —
Guidelines**

*Navires et technologie marine — Dimensionnement et choix d'un
incinérateur — Lignes directrices*

Sample Document

get full document from standards.iteh.ai



Reference number
ISO 18309:2014(E)

© ISO 2014

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Selecting incinerator size and location	2
5 Estimating daily quantities of solid waste to be incinerated	2
6 Other factors for selection	2
7 Classification of shipboard wastes and incinerators	3
7.1 Classification of shipboard wastes	3
8 Incinerator operations	4
8.1 Solid waste capacity calculation	4
8.2 Machinery sludge oil generation calculation	4
8.3 Capacity calculation when burning both solid waste and sludge oil	4
Annex A (informative) Alternative disposal of contaminated water	6
Bibliography	7

Sample Document

get full document from standards.iteh.ai

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 2, *Marine environment protection*.

get full document from standards.iteh.ai

Ships and marine technology — Incinerator sizing and selection — Guidelines

1 Scope

This International Standard covers selection criteria to assist procurers in selecting the appropriate incinerator for their needs. This International Standard is a companion document to ISO 13617.

This International Standard does not apply to incinerator systems on special incinerator ships, for example, for burning industrial wastes such as chemicals, manufacturing residues, and so forth.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 13617, *Ships and marine technology — Shipboard incinerators — Requirements*

International Maritime Organization (IMO), *The International Convention for the Prevention of Pollution from Ships (MARPOL)*, Annexes V and VI, as amended

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

batch feeding

non-continuous feeding incinerator where the combustion chamber shall be cooled down between placing solid waste into the combustion chamber

3.2

continuous feeding

pump transfer of sludge oil into the incinerator combustion chamber on a continuous basis; also, the feeding of solid waste into the combustion chamber by a screw conveyor or sluice system

3.3

sludge oil

residual from fuel and lubricating oil separators, oily waste from machinery and hydraulic power units, drip trays and oil-water separators

3.4

sluice system

trap door system, whereby it is possible in a safe manner to feed solid waste into the combustion chamber while the incinerator is operating and is at high temperature

3.5

solid waste

combustible trash, garbage, and rubbish (see also [7.1](#))

3.6

waste

unnneeded or useless matter which is to be discarded