

Collection, logistics & treatment requirements for WEEE  
- Part 2-3: Treatment requirements for temperature  
exchange equipment and other WEEE containing VFC  
and/or VHC

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 50625-2-3:2017 sisaldab Euroopa standardi EN 50625-2-3:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 50625-2-3:2017 consists of the English text of the European standard EN 50625-2-3:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 28.07.2017.	Date of Availability of the European standard is 28.07.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile [standardiosakond@evs.ee](mailto:standardiosakond@evs.ee).

ICS 13.030.99

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:

Koduleht [www.evs.ee](http://www.evs.ee); telefon 605 5050; e-post [info@evs.ee](mailto:info@evs.ee)

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Homepage [www.evs.ee](http://www.evs.ee); phone +372 605 5050; e-mail [info@evs.ee](mailto:info@evs.ee)

English Version

**Collection, logistics & treatment requirements for WEEE - Part 2-3: Treatment requirements for temperature exchange equipment and other WEEE containing VFC and/or VHC**

Exigences de collecte, logistique et traitement pour les déchets d'équipements électriques et électroniques (DEEE)  
- Partie 2-3: exigences de traitement des équipements d'échange thermique et autres DEEE contenant des fluorocarbures volatils et/ou des hydrocarbures volatils

Sammlung, Logistik und Behandlung von Elektro- und Elektronik-Altgeräten (WEEE) - Teil 2-3: Anforderungen an die Behandlung von Wärmeträgern und anderen Elektro- und Elektronik-Altgeräten die VFC und/oder VFC enthalten

This European Standard was approved by CENELEC on 2017-05-29. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

<b>Contents</b>	<b>Page</b>
<b>European foreword .....</b>	<b>3</b>
<b>Introduction .....</b>	<b>4</b>
<b>1 Scope .....</b>	<b>5</b>
<b>2 Normative references .....</b>	<b>5</b>
<b>3 Terms and definitions.....</b>	<b>5</b>
<b>4 Administrative and organizational requirements .....</b>	<b>8</b>
4.1 Management Principles .....	8
4.2 Technical and infrastructural pre-conditions.....	8
4.3 Training.....	8
4.4 Monitoring .....	8
4.5 Shipments.....	8
<b>5 Technical requirements .....</b>	<b>8</b>
5.1 General .....	8
5.2 Receiving of WEEE at treatment facility.....	8
5.3 Handling of WEEE .....	9
5.4 Storage of WEEE prior to treatment.....	9
5.5 De-pollution.....	9
5.6 De-pollution monitoring.....	12
5.7 Treatment of non-de-polluted WEEE and fractions.....	16
5.8 Storage of fractions.....	16
5.9 Recycling and recovery targets .....	16
5.10 Recovery and disposal of factions.....	17
<b>6 Documentation.....</b>	<b>17</b>
<b>Annex A (normative) De-pollution.....</b>	<b>18</b>
<b>Annex B (normative) De-pollution monitoring.....</b>	<b>19</b>
<b>Annex C (normative) Determination of recycling and recovery rates .....</b>	<b>20</b>
<b>Annex D (normative) Requirements concerning processing of a batch.....</b>	<b>21</b>
<b>Annex E (Void).....</b>	<b>22</b>
<b>Annex F (informative) Materials and components of WEEE requiring selective treatment.....</b>	<b>23</b>
<b>Annex G (informative) Documentation for downstream monitoring and establishment of recycling and recovery rates .....</b>	<b>24</b>
<b>Annex AA (normative) Methodology for running performance tests for step 1 treatment .....</b>	<b>25</b>
<b>Annex BB (normative) Methodology for running performance tests for step 2 and onsite step 3 treatment.....</b>	<b>33</b>
<b>Bibliography .....</b>	<b>46</b>

## European foreword

This document (EN 50625-2-3:2017) has been prepared by CLC/TC 111X “Environment”.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-05-29
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2020-05-29

This document supersedes EN 50574-1:2012.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

This part 2 is to be used in conjunction with the latest edition of EN 50625-1.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to EN 50625–1.

This Part 2 supplements or modifies the corresponding clauses in EN 50625-1, so as to convert that publication into the European Standard: *Treatment requirements for temperature exchange equipment*.

When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

## Introduction

*This clause of Part 1 is applicable.*

## 1 Scope

*This clause of Part 1 is replaced by the following:*

This European Standard is applicable to the treatment of waste temperature exchange equipment and other WEEE containing VFC or VHC in refrigerants or blowing agents.

This European Standard applies to the treatment of temperature exchange equipment until end-of-waste status is fulfilled, or temperature exchange equipment fractions are recycled, recovered, or disposed of.

This European Standard addresses all operators involved in the treatment including related handling, sorting and storage of temperature exchange equipment.

## 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.

*This clause of Part 1 is applicable with the following additions:*

EN 50625-1:2014, *Collection, logistics & Treatment requirements for WEEE - Part 1: General treatment requirements*

CLC/TS 50625-3-1, *Collection, logistics & treatment requirements for WEEE - Part 3-1: Specification for de-pollution - General*

CLC/TS 50625-3-4, *Collection, logistics & treatment requirements for WEEE - Part 3-4: Specification for de-pollution - temperature exchange equipment and other WEEE containing VFC and/or VHC*

## 3 Terms and definitions

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

*This clause of Part 1 is applicable except as follows:*

*In definition 3.37, the Note 1 to entry is replaced with the following:*

Note 1 to entry: Common commercial designations for these materials are R12, R11 for CFCs; R22, R141b for HCFCs; R134a, R410A, R407C, R32, R1234yf and R1234ze for HFCs.

*The following subclauses are added to this clause or Part 1:*

### 3.101

#### **refrigerant**

fluid used for heat transfer in a refrigerating system which absorbs heat at a low temperature and a low pressure of the fluid and rejects it at a higher temperature and higher pressure of the fluid usually involving reversible changes of the phase of the fluid

[SOURCE: ISO 817:2014]

### 3.102

#### **refrigerating system**

part that uses a refrigerant to transfer thermal energy from one part of an appliance to another part

NOTE 1 to entry: The refrigerating system in new appliances is hermetically sealed and typically also contains oil.

NOTE 2 to entry: Heat pumps also use a refrigerating system.