

ICS 13.030.30; 13.030.40; 97.030

English Version

Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons - Part 2: specification for de-pollution

Exigences de collecte, logistique et traitement pour la fin de vie des appareils domestiques contenant des fluorocarbures volatils ou des hydrocarbures volatils - Partie 2: Spécifications de dépollution

Anforderungen an die Sammlung, Logistik und Behandlung von Altgeräten aus dem Haushalt, die flüchtige Fluorkohlenwasserstoffe oder flüchtige Kohlenwasserstoffe enthalten - Teil 2: Spezifikation zur Schadstoffentfrachtung

This Technical Specification was approved by CENELEC on 2014-09-30.

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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

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Foreword

This document (CLC/TS 50574-2:2014) has been prepared by CLC/TC 111X "Environment".

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Introduction

This Technical Specification is intended to support EN 50574:2012 by providing further normative requirements for the assessment of de-pollution for treatment of end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons.

Any characteristic numbers and target values within this Technical Specification are based on evidence gathered by technical experts over a time period of more than two years when performing test according to EN 50574:2012.

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1 Scope

EN 50574:2012 gives the responsible take-back parties the task of defining target values. This Technical Specification provides applicable target values, characteristic numbers; sampling and analysis procedures, as well as monitoring and reporting requirements. Furthermore, this Technical Specification provides validation methodologies for tests and the daily business of the treatment plants as defined in EN 50574:2012.

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.

EN 50574:2012, *Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons*

3 Terms and definitions

For the purposes of this document the terms and definitions given in EN 50574:2012 and the following apply.

3.1

characteristic numbers

values of parameters (except target values and limit values) used to determine VFC and VHC recovery performance for step 1 (e.g. q_{Mtot} , S_k), step 2 (e.g. f_{VFC} , f_{VHC}) and step 3, and values of parameters used to assess certain results of the plant performance audit (e.g. t_{max} in step 1 and $w_{i,VFC}$ and $w_{i,VHC}$ in step 2)

3.2

monitoring

system to acquire and store quantitative information about the material input and material output streams of the treatment facility (step 1, step 2, step 3) and related calculation of the recovery performance

Note 1 to entry: The scope of the required monitoring procedures is detailed in 5.5 in EN 50574:2012.

3.3

reporting

all information used to notify the results of the monitoring system

Note 1 to entry: The scope and content of the information to be reported is detailed in 5.6 in EN 50574:2012.

4 Target values

4.1 Step 1

A.2.7 of EN 50574:2012 define the target values for step 1 treatment.

4.2 Step 2: tv_{VFC} , tv_{VHC}

4.2.1 General

Clause 6 of EN 50574:2012 requires that target values for the recovery of VFCs and VHCs for Step 2 treatment (tv_{VFC} , tv_{VHC}) shall be defined.

The target values (tv_{VFC} and tv_{VHC}) represent the minimum masses of VFC and VHC to be recovered per kilogram of VFC-PU or VHC-PU foam respectively. The target value tv_{VFC} is calculated either from M_{VFC} , which is the "potentially recoverable" mass of VFC based on the VFC-PU foam in the plant's PU input stream, or from D_{VFC} , which is the mass of VFC blowing agent determined based on the plant's PU output stream. The