

**Elektrilise ajamiga kompressoriga
kliimaseadmed, vedelikjahutusega
üksused ja soojuspumbad ruumi
soojendamiseks ja jahutamiseks. Osa 3:
Katsemeetodid**

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 3: Test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14511-3:2007 sisaldab Euroopa standardi EN 14511-3:2007 ingliskeelset teksti. Käesolev dokument on jõustatud 18.12.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 14511-3:2007 consists of the English text of the European standard EN 14511-3:2007. This document is endorsed on 18.12.2007 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: This part of EN 14511 specifies the test methods for the rating and performance of air and water-cooled air conditioners, liquid chilling packages, air-to-air, water-to-air, air-to-water and water-to-water heat pumps with electrically driven compressors when used for space heating and cooling. It also specifies the method of testing and reporting for heat recovery capacities, system reduced capacities and the capacity of individual indoor units of multisplit systems, where applicable. This European Standard applies to factory-made units that can be ducted. This standard applies to factory-made liquid chilling packages with integral condensers or for use with remote condensers. This standard applies to factory-made units of either fixed capacity or variable capacity by any means. Packaged units, single split and multisplit systems are covered by this standard. Single duct and double duct units are covered by the standard. In the case of units consisting of several parts, the standard applies only to those designed and supplied as a complete package, except for liquid chilling packages with remote condenser.	Scope: This part of EN 14511 specifies the test methods for the rating and performance of air and water-cooled air conditioners, liquid chilling packages, air-to-air, water-to-air, air-to-water and water-to-water heat pumps with electrically driven compressors when used for space heating and cooling. It also specifies the method of testing and reporting for heat recovery capacities, system reduced capacities and the capacity of individual indoor units of multisplit systems, where applicable. This European Standard applies to factory-made units that can be ducted. This standard applies to factory-made liquid chilling packages with integral condensers or for use with remote condensers. This standard applies to factory-made units of either fixed capacity or variable capacity by any means. Packaged units, single split and multisplit systems are covered by this standard. Single duct and double duct units are covered by the standard. In the case of units consisting of several parts, the standard applies only to those designed and supplied as a complete package, except for liquid chilling packages with remote condenser.
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ICS 23.120

Võtmesõnad:

Eesti Standardikeskusele kuulub standardite reprodutseerimis- ja levitamisoigus

English Version

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 3: Test methods

Climatiseurs, groupes refroidisseurs de liquide et pompes à chaleur avec compresseur entraîné par moteur électrique pour le chauffage et la réfrigération des locaux - Partie 3 :
Méthodes d'essai

Luftkonditionierer, Flüssigkeitskühlsätze und Wärmepumpen mit elektrisch angetriebenen Verdichtern für die Raumbeheizung und Kühlung - Teil 3: Prüfverfahren

This European Standard was approved by CEN on 13 October 2007.

CEN 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 Management Centre or to any CEN 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 CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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Contents

Page

Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Rating capacity test	6
4.1 Basic principles	6
4.1.1 Heating capacity	6
4.1.2 Cooling capacity	6
4.1.3 Heat recovery capacity	7
4.1.4 Power input of fans for units without duct connection	7
4.1.5 Power input of fans for units with duct connection	8
4.1.6 Power input of liquid pumps	8
4.1.7 Units for use with remote condenser	9
4.2 Test apparatus	9
4.2.1 Arrangement of the test apparatus	9
4.2.2 Installation and connection of the test object	10
4.3 Uncertainties of measurement	11
4.4 Test procedure	12
4.4.1 General	12
4.4.2 Output measurement for water-to-water and water-to-air units	14
4.4.3 Output measurement for cooling capacity of air-to-water and air-to-air units	14
4.4.4 Output measurement for heating capacity of air-to-water and air-to-air units	15
4.5 Test results	17
4.5.1 Data to be recorded	17
4.5.2 Cooling capacity and heat recovery capacity calculation	19
4.5.3 Heating capacity calculation	20
4.5.4 Effective power input calculation	20
5 Heat recovery test for air-cooled multisplit systems	20
5.1 Test installation	20
5.1.1 General	20
5.1.2 Three-room calorimeter method	21
5.1.3 Three-room air-enthalpy method	21
5.1.4 Two-room air-enthalpy method	21
5.2 Test procedure	21
5.3 Test results	21
6 Test report	21
6.1 General information	21
6.2 Additional information	22
6.3 Rating test results	22
Annex A (informative) Calorimeter test method	23
Annex B (informative) Indoor air enthalpy test method	31
Annex C (informative) Heating capacity tests - Flow chart and examples of different test sequences	33
Annex D (informative) Conformance criteria	37
Annex E (informative) Symbols used in annexes	38
Annex F (informative) Test at system reduced capacity	40

Annex G (informative) Individual unit tests	41
Bibliography	43

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Foreword

This document (EN 14511-3:2007) has been prepared by Technical Committee CEN/TC 113 "Heat pumps and air conditioning units", the secretariat of which is held by AENOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2008, and conflicting national standards shall be withdrawn at the latest by May 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14511-3:2004.

EN 14511 comprises the following parts under the general title "*Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling*":

- *Part 1: Terms and definitions*
- *Part 2: Test conditions*
- *Part 3: Test methods*
- *Part 4: Requirements*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This part of EN 14511 specifies the test methods for the rating and performance of air and water-cooled air conditioners, liquid chilling packages, air-to-air, water-to-air, air-to-water and water-to-water heat pumps with electrically driven compressors when used for space heating and cooling.

It also specifies the method of testing and reporting for heat recovery capacities, system reduced capacities and the capacity of individual indoor units of multisplit systems, where applicable.

This European Standard applies to factory-made units that can be ducted.

This standard applies to factory-made liquid chilling packages with integral condensers or for use with remote condensers.

This standard applies to factory-made units of either fixed capacity or variable capacity by any means.

Packaged units, single split and multisplit systems are covered by this standard. Single duct and double duct units are covered by the standard.

In the case of units consisting of several parts, the standard applies only to those designed and supplied as a complete package, except for liquid chilling packages with remote condenser.

This standard is primarily intended for water and brine chilling packages but can be used for other liquid subject to agreement.

This standard applies to air-to-air air conditioners which evaporate the condensate on the condenser side.

The units having their condenser cooled by air and by the evaporation of external additional water are not covered by this standard.

This standard does not apply to units using transcritical cycles, e.g. with CO₂ as refrigerant.

Installations used for heating and/or cooling of industrial processes are not within the scope of this standard.

NOTE 1 Part load testing of units is dealt with in CEN/TS 14825.

NOTE 2 All the symbols given in this text should be used regardless of the language used.

2 Normative references

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

EN 14511-1:2007, *Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms and definitions*

EN 14511-2:2007, *Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 2: Test conditions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14511-1:2007 apply.