

<b>STN</b>	<b>Kompresory a kondenzačné jednotky na chladenie</b> <b>Skúšobné metódy a skúšanie vlastností</b> <b>Časť 2: Kondenzačné jednotky</b>	<b>STN</b> <b>EN 13771-2</b>  14 4608
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Compressors and condensing units for refrigeration - Performance testing and test methods - Part 2: Condensing units

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/18

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Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD

EN 13771-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 13771-2:2007

English Version

## Compressors and condensing units for refrigeration - Performance testing and test methods - Part 2: Condensing units

Compresseurs et unités de condensation pour la  
réfrigération - Essais de performance et méthodes  
d'essais - Partie 2 : Unités de condensation

Kältemittel-Verdichter und Verflüssigungssätze für die  
Kälteanwendung - Leistungsprüfung und  
Prüfverfahren - Teil 2: Verflüssigungssätze

This European Standard was approved by CEN on 26 July 2017.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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## European foreword

This document (EN 13771-2:2017) has been prepared by Technical Committee CEN/TC 113 “Heat pumps and air conditioning units”, the secretariat of which is held by UNE.

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 March 2018, and conflicting national standards shall be withdrawn at the latest by March 2018.

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

This document supersedes EN 13771-2:2007.

The following significant changes compared to the previous edition have been incorporated in this European Standard:

- a) alignment of symbols and indexes with EN 13771-1;
- b) introduction of a new Figure 1 “Condensing unit configurations” and revision of the Figures 2 to 7;
- c) introduction of the new Clause 4 “Uncertainty of measurement and test conditions”;
- d) specification of a detailed test room and setup description to reduce testing uncertainty, aligned with EN 327 and EN 14511-3;
- e) adoption to transcritical operation and cyclic capacity control.

EN 13771 consists of the following parts, under general title *Compressors and condensing units for refrigeration — Performance testing and test methods*:

— *Part 1: Refrigerant compressors*

— *Part 2: Condensing units*

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

## 1 Scope

This European Standard applies only to condensing units for refrigeration and describes a number of selected performance test methods. These methods provide sufficiently accurate results for the determination of the refrigerating capacity, power absorbed, refrigerant mass flow and the coefficient of performance.

This European Standard applies only to performance tests conducted at the manufacturer's works or wherever the instrumentation and load stability for testing to the accuracy required is available.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 378-1, *Refrigerating systems and heat pumps - Safety and environmental requirements - Part 1: Basic requirements, definitions, classification and selection criteria*

EN 378-2, *Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation*

ISO 817, *Refrigerants — Designation and safety classification*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**