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Devices to prevent pollution by backflow of potable water - Air gap with non-circular overflow (unrestricted) - Family A - Type B



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13077:2023 sisaldab Euroopa standardi EN 13077:2023 ingliskeelset teksti.	This Estonian standard EVS-EN 13077:2023 consists of the English text of the European standard EN 13077:2023.
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EUROPEAN STANDARD

EN 13077

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2023

ICS 13.060.20

Supersedes EN 13077:2018

English Version

**Devices to prevent pollution by backflow of potable water
- Air gap with non-circular overflow (unrestricted) -
Family A - Type B**

Dispositifs de protection contre la pollution de l'eau potable par retour - Surverse avec trop-plein non-circulaire (totale) - Famille A - Type B

Sicherungseinrichtungen zum Schutz des Trinkwassers gegen Verschmutzung durch Rückfließen - Freier Auslauf mit nicht kreisförmigem Überlauf (uneingeschränkt) - Familie A - Typ B

This European Standard was approved by CEN on 23 January 2023.

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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 13077:2023) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2023, and conflicting national standards shall be withdrawn at the latest by September 2023.

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 13077:2018.

The main changes compared to the previous edition are listed below:

- a) terms and definitions have been amended;
- b) Figure 1, Figure 4 and Figure 5 have been updated and redrawn;
- c) Figure 6 has been added as an additional overflow arrangement;
- d) the dimension D has been redefined;
- e) 7.4 and 7.5 have been revised;
- f) Annex B has been deleted.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

With respect to potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this document:

- a) this document provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA;
- b) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

1 Scope

This document specifies the characteristics and the requirements of air gap with non-circular overflow (unrestricted) Family A, Type B for nominal flow velocity not exceeding 3 m/s. Air gaps are devices for protection of potable water in water installations from pollution by backflow. This document applies to air gaps in factory-assembled products and to constructed air gaps *in situ* and specifies requirements and methods to verify and ensure compliance with this document during normal working use.

The fluid in the receiving vessel is assumed to have similar properties to water. Where this is not the case, additional care or tests could be required to verify the efficacy of the solution in practical use.

The AB device is intended to be used in potable water installations according to EN 806 (all parts).

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 806-1, *Specifications for installations inside buildings conveying water for human consumption - Part 1: General*

EN 806-5:2012, *Specifications for installations inside buildings conveying water for human consumption - Part 5: Operation and maintenance*

EN 1717, *Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 806-1 and EN 1717 and the following apply.

3.1

air gap with non-circular overflow (unrestricted) Family A, Type B

permanent and vertical distance between the lowest point of the inlet orifice and the critical water level of the receiving vessel having an overflow which is non-circular in design

Note 1 to entry: See Figure 1 for the design principle.