



WMTS-028:2018 Food waste disposal unit

WaterMark Technical Specification

2018





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Document formerly known as:-

ATS 5200.028 – 2004 Technical Specification for Plumbing and Drainage Products
Commercial food waste disposal unit

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2018

IMPORTANT NOTICE AND DISCLAIMER

On 25 February 2013 management and administration of the WaterMark Certification Scheme transferred to the Australian Building Codes Board (ABCB). From this date all new technical specifications will be named WaterMark Technical Specifications (WMTS). Within two years all existing ATS will be renamed WMTS. During this initial period both terms may be used and accepted. All new and recertified Certificates of Conformity will reference WMTS. Certificates of Conformity that currently reference ATS will be re-issued referencing the equivalent WMTS during this initial period. The WaterMark Schedule of Specifications lists all current WMTS and, where appropriate, the former ATS name.

This Technical Specification supersedes Standards Australia ATS 5200.028 – 2004.

The rebranding of this Technical Specification has included additional information about the transition as well as changes to specific details including replacing references to Standards Australia and the National Plumbing Regulators Forum (NPRF) with the ABCB, changing the term Australian Technical Specification (ATS) to WaterMark Technical Specification (WMTS), replacing references to technical committees WS-014 and WS-031 with the WaterMark Technical Advisory Committee (WMTAC).

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The ABCB welcomes suggestions for improvement in the WMTS, and encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact the ABCB via phone on 1300 134 631, email at watermark@abcb.gov.au or write to the WaterMark Administering Body, ABCB, GPO Box 9839, Canberra ACT 2601.

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PREFACE

WaterMark Technical Specification WMTS-028:2016 Technical Specification for plumbing and drainage products, Commercial food waste disposal unit was originally prepared by the Joint Standards Australia/Standards New Zealand Committee WS-031, Technical Procedures for Plumbing and Drainage Products Certification as ATS 5200.028—2004.

WaterMark Technical Specification WMTS-028:2018 Technical Specification for plumbing and drainage products; Food waste disposal unit, incorporates an amendment to expand the scope to allow for products intended for both commercial and domestic installations.

The objective of this Technical Specification is to enable product certification in accordance with the requirements of the Plumbing Code of Australia (PCA).

The word 'VOID' set against a clause indicates that the clause is not used in this Technical Specification. The inclusion of this word allows a common use clause numbering system for the WaterMark Technical Specifications.

The term 'normative' has been used in this Technical Specification to define the application of the appendices to which they apply. A 'normative' appendix is an integral part of a Technical Specification.

The test protocol and information in this Technical Specification was arranged by committee members to meet the authorization requirements given in the PCA.

The WaterMark Schedule of Specifications and List of Exempt Products are dynamic lists and change on a regular basis. Based on this function, these lists have been removed from the WaterMark Certification Scheme document known as Technical Specification for Plumbing and Drainage Products and are now located on the ABCB website (www.abcb.gov.au). These lists will be version controlled with appropriate historic references.



ACKNOWLEDGEMENTS

Australian Technical Specification ATS 5200.028-2004, on which this technical specification is based, was prepared by Standards Australia Committee WS-031, Technical Procedures for Plumbing and Drainage Products Certification. It was approved on behalf of the Council of Standards Australia on 8 October 2004.

The following organisations were represented on Committee WS-031 in the preparation of Australian Technical Specification ATS 5200.028-2004.

- AUSTAP
- Australian Electrical and Electronic Manufacturers Association
- Australian Industry Group
- Certification Interests (Australia)
- Consumer Electronics Suppliers Association
- Copper Development Centre—Australia
- Gas Appliances and Services Association
- Master Plumbers, Gasfitters and Drainlayers New Zealand
- National Fire Industry Association
- New Zealand Water & Waste Association
- Plastics Industry Pipe Association of Australia
- Plumbing Industry Commission
- South Australian Water Corporation
- Water Services Association of Australia

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1 SCOPE

This Technical Specification sets out the requirements for a food waste disposal unit (FWDU) and addresses issues related to the connection of such fittings as well as operational issues.

NOTE: The installation of food waste disposal units is subject to approval by the relevant authority.

2 APPLICATION

This Technical Specification will be referenced on the WaterMark Certification Scheme Schedule of Specifications.

Appendix A sets out the means by which compliance with this Technical Specification shall be demonstrated by a manufacturer for the purpose of product certification.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Specification:

AS

2396 Performance of household food waste disposal units

AS/NZS

3500 Plumbing and drainage

3500.0 Part 0: Glossary of terms

3500.2 Part 2: Sanitary plumbing and drainage

4 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 3500.0 apply.

5 MATERIALS

Material shall comply with AS 2396.

NOTE: The testing requirements within AS 2396 should be utilised for products intended for both commercial and household use

6 MARKING

Food waste disposal units shall be marked with the following:

- (a) Maker's name or mark.
- (b) WaterMark.

(c) A warning stating: '**Observe local authority installation restrictions**'.

(d) The number of this Technical Specification, i.e., WMTS-028.

7 VOID

8 VOID

9 PERFORMANCE REQUIREMENTS AND TEST METHODS

9.1 Air gap

Air gap dimensional requirements to AS/NZS 3500.2.

9.2 Degree of fineness (FWDU)

Food waste disposal units shall comply with the degree of fineness requirements of AS 2396.

NOTE: The testing requirements within AS 2396 should be utilised for products intended for both commercial and household use

9.3 Drainage (FWDU)

Food waste disposal units shall comply with the drainage requirements of AS 2396.

NOTE: The testing requirements within AS 2396 should be utilised for products intended for both commercial and household use

9.4 Backflow into dishwasher (FWDU)

Food waste disposal units shall comply with the backflow into dishwashers requirements of AS 2396.

NOTE: The testing requirements within AS 2396 should be utilised for products intended for both commercial and household use

10 VOID

11 PRODUCT DOCUMENTATION

11.1 Installation and operation instructions

Installations instructions shall be provided, which shall include the following:

(a) Full details of where and how to install and operate the food waste disposal units.

(b) Reference to AS/NZS 3500.2.



- (c) A warning that the product may require approval of the relevant regulator and/or the sewerage system operator.

Basic user operation and maintenance instruction shall also be marked on the valve assembly.

Appendix A MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS TECHNICAL SPECIFICATION

(Normative)

A.1 SCOPE

This Appendix sets out the means by which compliance with this Technical Specification is to be demonstrated by a manufacturer under the WaterMark Certification Scheme.

A.2 RELEVANCE

The long-term performance of plumbing systems is critical to the durability of building infrastructure, protection of public health and safety, and protection of the environment.

A.3 PRODUCT CERTIFICATION

The purpose of product certification is to provide independent assurance of the claim by the manufacturer that products comply with this Technical Specification.

The certification scheme serves to indicate that the products consistently conform to the requirements of this Technical Specification.

The sampling and testing plan, as detailed in Paragraph A5 and Table A1, shall be used by the WaterMark Conformity Assessment Body. Where a batch release testing program is required it shall be carried out as detailed in Paragraph A5 and Table A2, by the manufacturer.

A.4 DEFINITIONS

A.4.1 Batch release test

A test performed by the manufacturer on a batch of components, which has to be satisfactorily completed before the batch can be released.

A.4.2 Production batch

Clearly identifiable collection of units, manufactured consecutively or continuously under the same conditions, using material or compound to the same specification.

A.4.3 Sample

One or more units of product drawn from a batch, selected at random without regard to quality.

NOTE: The number of units of product in the sample is the sample size.

A.4.4 Sampling plan

A specific plan that indicates the number of units of components or assemblies to be inspected.

A.4.5 Type test batch

Schedule of units of the same type, identical dimensional characteristics, all the same nominal diameter and wall thickness, from the same compound. The batch is defined by the manufacturer.

A.4.6 Type testing (TT)

Testing performed to demonstrate that the material, component, joint or assembly is capable of conforming to the requirements given in the Technical Specification.

A.5 TESTING

A.5.1 Type testing

Table A1 sets out the requirements for type testing and frequency of re-verification.

A.5.2 Batch release testing

Table A2 sets out the minimum sampling and testing frequency plan for a manufacturer to demonstrate compliance of product(s) to this Technical Specification on an ongoing basis. However, where the manufacturer can demonstrate adequate process control to the WaterMark Conformity Assessment Body, the frequency of the sampling and testing nominated by the manufacturer's quality plan and/or documented procedures shall take precedence for the purposes of WaterMark product certification.

A.5.3 Retesting

In the event of a test failure, the products within the batch shall be tested at an appropriate acceptable quality level (AQL) and only those batches found to comply may be claimed and/or marked as complying with this Technical Specification.

Table A1—TYPE TESTS

Characteristic	Clause	Requirement	Test method	Frequency
Materials	5	Materials	AS 2396	At any change in materials specification
Marking	6	Marking	Visual inspection	At any change in marking process
Performance	9.1	Air gap	Review of the design	At any change in the design
	9.2	Degree of fineness	AS 2396	
	9.3	Drainage		
	9.4	Backflow		
Product documentation	11.1	Installation and operation instructions	Visual inspection	At any change in the installation or operation practices

Table A2—BATCH RELEASE TESTS

Characteristic	Clause	Requirement	Test method	Frequency
Marking	6	Marking	Visual inspection	Once per batch
Performance	9.1	Air gap	Visual inspection	Once per batch
Product documentation	11.1	Installation and operation instructions	Visual inspection	Once per batch

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