

## Eco Mark Product Category No.158

### “Water-saving apparatus Version1.3”

#### Certification Criteria

##### - Applicable Scope-

- A. Water-saving disc
- B. Constant flow regulating valve
- C. Aerator cap
- D. Flow control valve
- E. Showerhead with a water stop mechanism at hand
- F. Showerhead with a small flow rate water discharging mechanism

Established: January 1, 2016  
Last revised: December 15, 2022  
Expiration Date: December 31, 2027

Japan Environment Association  
Eco Mark Office

NOTE: This document is a translation of the criteria written in Japanese. In the event of dispute, the original document should be taken as authoritative.

## Eco Mark Product Category No.158 “Water-saving apparatus Version1.3” Certification Criteria

Japan Environment Association  
Eco Mark Office

### 1. Purpose of Establishing Criteria

Omitted.

### 2. Applicable Scope

Applicable scope of this product category is listed in the Table 1.

Table 1 Applicable Scope

	Product type
A	Water-saving disc
B	Constant flow regulating valve
C	Aerator cap
D	Flow control valve
E	Showerhead with a water stop mechanism at hand
F	Showerhead with a small flow rate water discharging mechanism

- Note)
- 1 The water-saving discs are those which are used in single faucet for cold water of nominal diameter of 13, and those included in the scope shall be the discs which enable water saving only by replacing them with relevant materials, through such measures as making the nuts stabilizing the valve seat packing, etc. in special shapes. Applicable to a disc which is easily replaced with an existing installed water-saving disc.
  - 2 The constant flow regulating valves are those used for washing hands, faces or dishes, and those included in the scope shall be the valves which enable water saving only by exchanging the products to limit the amount of discharge to a certain point.

### 3. Terminology

Water saving disc	A disc designed to save water in a water faucet. Water discharge from a water faucet equipped with a water-saving disc is significantly smaller than that from a water faucet equipped with an ordinary disc, at the same lever
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	opening degree. Fixed type discs are included.
Constant flow regulating valve	Among the control valves that maintain the flow at a fixed amount to some extent regardless of changes in the pressure at the inlet or the outlet of the valve, the faucet which has a control valve with the amount of flow set at a fixed point.
Aerator cap	Faucet which can save water by mixing air into water flow.
Flow control valve	Among the control valves that maintain the flow at a fixed amount to some extent regardless of changes in the pressure at the inlet or the outlet of the valve, a valve with variable flow amount settings that saves water by installing it on the spout side of the water stopcock.
Showerhead with a water stop mechanism at hand	The showerheads which are used in the bathrooms with the mechanism of discharging or stopping water at hand with such switches as buttons or sensors which are installed within the area of users' operation, which are independent from the discharge switching mechanism or flow and temperature adjustment mechanism (hoses shall be included).
Showerhead with a small flow rate water discharging mechanism	The showerheads which have the small flow rate water discharging function (including the hose part), with installed on a bathroom shower faucet or a bathroom shower bath faucet.
Water supply equipment	The "water supply equipment" shall mean the water pipe bifurcated from the drainpipe installed by a water utility company to supply consumers with water as well as the water supply fittings directly connected to them (such fittings should be the faucets, etc. structurally connected to the water pipe which are not easily to be removed and enable to supply water with the water pressure being maintained; devices which are connected but can be easily removed, such as hoses, shall not be included).

Prescribed constituent	A material component added for the intended purpose of giving certain characteristics to a product. Impurities of 0.1wt% or less that are technically unavoidable in the manufacturing process are not included.
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#### 4. Certification Criteria and Certification Procedure

##### 4-1. Environmental Criteria and Certification Procedure

##### 4-1-1 Resource Saving and Resource Recycling

- (1) Regarding water-saving performance when the applying water saving apparatus is equipped in the faucet, criteria items set by each product type in table2 shall be met.

Table 2 criteria items for water-saving performance

A:Water saving disc	<p>All the following requirements a)-d) shall be met.</p> <p>a) When the handle is opened 120 degrees, the discharge rate shall be more than 20% but not be more than 70% of that when the water faucet equipped with an ordinary disc</p> <p>b) When the handle is fully opened, the discharge rate shall be not less than 70% of that of being equipped with an ordinary disc.</p> <p>c) If it is the type to be attached to the outlet, it shall be a single type apparatus having the capability of being applied to various types of outlets.</p> <p>d) No electric energy shall be used.</p>
B: Constant flow regulating valve	<p>All the following requirements a)-e) shall be met.</p> <p>a) When the handle is fully opened, the proper flow shall be 8 liters/min or less at each water pressure of 0.1 MPa and more and at 0.7MPa and lower.</p> <p>b) An instruction manual shall describe the installation condition by its purpose to allow usage that meets the enough flow volume</p> <p>c) One constant flow regulating valve shall correspond to one faucet.</p> <p>d) If it is the type to be attached to the outlet, it shall be a single type apparatus having the capability of being</p>

	<p>applied to various types of outlets.  e) No electric energy shall be used.</p>								
<p>C: Aerator cap</p>	<p>All the following requirements a)-d) shall be met.  a) At a water pressure of 0.1 MPa or more and at a water pressure of 0.7 MPa or less, the proper flow shall not be more than 80% of that of the faucet without the aerator cap.  b) The discharge shall not be less than 5 liters/min at a water supply pressure of 0.1 MPa with a fully opened lever.  c) If it is the type to be attached to the outlet, it shall be a single type apparatus having the capability of being applied to various types of outlets.  d) No electric energy shall be used.</p>								
<p>D: Flow control valve</p>	<p>All the following requirements a)-e) shall be met.  a) At a water pressure of 0.1 MPa or more and at a water pressure of 0.7 MPa or less, the proper flow shall not be more than 80% of that of the faucet without the aerator cap  b) The discharge rate at the installed place with the handle (lever) fully opened and at a water pressure of 0.1 MPa shall not be less than the following values.</p> <table border="1" data-bbox="580 1368 1267 1568"> <thead> <tr> <th>Installation locations</th> <th>discharge rate</th> </tr> </thead> <tbody> <tr> <td>Washroom</td> <td>5L/minutes</td> </tr> <tr> <td>Kitchen</td> <td>5L/minutes</td> </tr> <tr> <td>Shower room</td> <td>8L/minutes</td> </tr> </tbody> </table> <p>c) An instruction manual shall describe the installation condition by its purpose to allow usage that meets the enough flow volume.  d) If it is the type to be attached to the outlet, it shall be a single type apparatus having the capability of being applied to various types of outlets.  e) No electric energy shall be used.</p>	Installation locations	discharge rate	Washroom	5L/minutes	Kitchen	5L/minutes	Shower room	8L/minutes
Installation locations	discharge rate								
Washroom	5L/minutes								
Kitchen	5L/minutes								
Shower room	8L/minutes								

E: Showerhead with a water stop mechanism at hand	<p>All the following requirements a)-c) shall be met.</p> <p>a) The showerheads with the mechanism of discharging or stopping water at hand with such switches as buttons or sensors which are installed within the area of users' operation, which are independent from the discharge switching mechanism or flow and temperature adjustment mechanism.</p> <p>b) If it is the type to be attached to the outlet, it shall be a single type apparatus having the capability of being applied to various types of outlets.</p> <p>c) No electric energy shall be used</p>
F: Showerhead with a small flow rate water discharging mechanism	<p>All the following requirements a)-c) shall be met.</p> <p>a) With the showerheads installed to the bathroom shower faucets or the bathroom shower bath faucet, the discharging power shall be measured, and the value obtained shall satisfy either of (i) or (ii) below.</p> <p>(i) Without the mechanism of aeration into the flow: 0.6N or more</p> <p>(ii) With the mechanism of aeration into the flow: 0.55N or more</p> <p>b) If it is the type to be attached to the outlet, it shall be a single type apparatus having the capability of being applied to various types of outlets.</p> <p>c) No electric energy shall be used</p>

Note) Testing method of the discharging volume shall conform to the discharging volume test prescribed by JIS B 2061.

[Certification Procedure]

The statement that the device is in compliance with the water saving standards shown in Table 2 shall be included in the attached certificate. In addition, a certificate showing the results of measurement by a third-party organization or by the applicant shall be submitted.

- (2) Maintenance and repair subcontract systems shall be available, and repairs shall be carried out as requested by the users. Supply of the spare parts shall be ensured for 6 years after production of the product stops.

[Certification Procedure]

Compliance with this item shall be indicated in the attached certificate. In addition, the applicant shall submit copies of product documentation indicating the matters related to this item.

#### 4-1-2. Restriction and Control of Hazardous Substances

- (3) The product packaging and packing shall be made as simple as possible and sufficient attention shall be paid to the easiness of recycling and the reduction of environmental burdens at the time of disposal. In addition, plastic materials used in product packaging and packing shall not be added plastic containing halogen to the polymer backbone.

[Certification Procedure]

Product packaging material and a packaging method shall be specifically indicated in the attached certificate. Whether or not any plastics containing halogens in the polymer backbone for the product packaging and packing shall be stated in the Attached Certificate.

- (4) In case an antimicrobial finishing is made in the product, the product shall be registered with such as the SIAA Mark of Society of Industrial technology for Antimicrobial Articles or Registration system for the use of antimicrobial performance criteria of Japan Construction Material & Housing Equipment Industries Federation, etc.

[Certification Procedure]

Compliance with this item shall be indicated in the Attached Certificate. In the case of using antimicrobial agents, a copy of a certificate that certifies the registration with the SIAA Mark of Society of Industrial technology for Antimicrobial Articles or Registration system for the use of antimicrobial performance criteria of Japan Construction Material & Housing Equipment Industries Federation, etc. shall be submitted.

- (5) In manufacturing the applied product, related environmental laws and regulations and pollution control agreement (hereinafter referred to as the “Environmental Laws, etc.”) must be followed with respect to air pollution, water contamination, noise, offensive odor, and emission of hazardous substances in the area where the plant performing the final manufacturing process is located.

In addition, the state of compliance with the Environmental Laws, etc. for the

past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

[Certification Procedure]

With respect to the compliance with the Environmental Laws, etc. in the area where the plant performing the final manufacturing process is located, a certificate issued by the representative of the business of manufacturing the applied product or the relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past five years, including a violation subject to administrative punishment or administrative guidance, and if there is, the following documents in a and b must be submitted:

- a. With respect to the fact of violation, guidance documents from administrative agencies (including order of correction and warning) and copies of written answers (including those reporting causes and results of correction) to such documents (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) concerning the management system for compliance with the Environmental Laws, etc. in 1)-5):
  - 1) List of the Environmental Laws, etc. related to the area where the plant is located;
  - 2) Implementation system (organizational chart with roles, etc.);
  - 3) Bylaws stipulating retention of recording documents;
  - 4) Recurrence prevention measures (future preventive measures);
  - 5) State of implementation based on recurrence prevention measures (result of checking of the state of compliance, including the result of onsite inspection).

#### 4-1-3. Information Provision to users

(6) Information a) and b) mentioned below shall be indicated in users manuals, catalogs, website, etc. in an easy-to-read manner.

- a) Types of faucets which can be installed and the methods of their installation.
- b) If the water-saving effects arise on certain conditions, information on installation conditions, etc. (this includes the matters to be noted that a

constant flow regulating valve or a faucet with built-in constant flow regulating valve should be installed in the part of the pipe after branching off; branching of the pipe shall not be conducted after the part of installation).

[Certification Procedure]

Copies of a corresponding part in the instruction manual, catalog and web site, etc. that indicate information to users shall be submitted.

#### 4-2. Quality Criteria and Certification Procedure

- (7) The quality of the Product shall conform to corresponding Japanese Industrial Standards (JIS) or other related quality standards. Regarding a water supply equipment, the product quality shall meet Article 5, ordinance of Water Work Law “Standard for structure of domestic water supply equipment”.

[Certification Procedure]

A certificate certifying the conformity with the corresponding JIS, Article 5, ordinance of Water Work Law “Standard for structure of domestic water supply equipment”, etc. or a certificate such as quality test results conducted by a third party institute or applicant’s own shall be submitted.

#### 5. Product Classification, Indication and Others

- (1) Products shall be classified (application classification) by product type shown in the applicable scope (Table 1) and by product name. When the criteria items A-F on water saving performance listed in Table 2 are multiply met at a time, it is considered as in the same classification.
- (2) Regarding products which correspond to designated procurement items under the "Act on Promotion of Procurement of Eco-Friendly Goods and Services by the State and Other Entities (Green Purchasing Law)", conformity status for evaluation criteria will be announced by a certification number on the website of the Eco Mark Office.
- (3) In principle, Eco Mark shall be indicated on the product. The Eco Mark Utilization Contractors who own the Eco Mark products shall also be allowed to indicate the description and the certification number as before.



(Note for the indication)

\*For indicating the logo, Eco Mark certification number (eight-digit number) or the name of the licensee using the logo shall be appeared.

\* Such expression as “Eco Mark product” can be used following the 2.(2) of the Guide to Eco Mark Usage.

“Eco Mark product”, “#Eco Mark”, “www.ecomark.jp”, “Eco Mark Certificate”

\*In accordance with “Environmental Labeling Guidelines” of the Ministry of the Environment of Japan, etc., the environmental claims of certified products may be indicated in association with Eco Mark.

(<https://www.env.go.jp/policy/hozen/green/ecolabel/guideline/>)

\*The Guide to Eco Mark Usage shall be followed for any cases not listed above.  
(<https://www.ecomark.jp/office/guideline/guide/>)

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January 1, 2016	Established (Version1.0)
March 1, 2018	Revised (Version1.1)
April 1, 2019	Revised (5.(3) Mark indication)
March 1, 2021	Extension of expiration
April 1, 2022	Revised (Terminology, Table2, Version1.2)
December 15, 2022	Revised (4.(3) Version1.3)
December 31, 2027	Expiration date

The Certification Criteria for the Product Category will be revised when necessary.