公益財団法人 日本環境協会
エコマーク事務局

Eco Mark Product Category No.139 Certification Criteria
Building Products (Equipment) Version1.7

Category B-3. Direct-connected Booster Pump Unit for water supply

Established: May 5, 2007
Last revised：June 22, 2026
Expiration date: December 12, 2032

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.

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Category B-3. Direct-connected Booster Pump Unit for water supply

1. Purpose of Establishing Certification Criteria
Omitted.

2. Applicable Scope
Direct-connected Booster Pump Unit for water supply
Japan Water Works Association JWWA B 130

3. Terminology
Omitted.

4. Certification Criteria and Certification Procedure
4-1. Environmental Criteria and Certification Procedure
4-1-1 Resource Saving and Circulation
(1) The product shall conform to Appendix1 “Product Design Checklist”.

[Certification Procedure]
Compliance with this item shall be indicated in the attached certificate. In addition, Form 1 “Product Design Checklist” and Form 2 “Main parts/material list” shall be submitted,

(2)A supply of a service part or consumable part shall be continued for 10 years or longer after the termination of product manufacturing. However, this item shall not apply to any case that the repair service specified in (3) is provided upon customer’s request for 10 years or longer from the termination of the product.

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, a copy of the corresponding part of the instruction manual etc. that clearly states this matter shall be submitted.

(3)Repair subcontract systems shall be available, and repairs shall be carried out as requested by the users (repair system). The following items a) and b) shall be satisfied to implement the system.

a) Information that repair services are available is provided.

b) Information on the scope of repair (details of services), contact, etc. is provided.

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, a copy of the corresponding part of the instruction manual etc. that clearly states this matter shall be submitted.

(4) Packaging or packing of the equipment shall be as simple as possible and give considerations to ease of reuse and load reduction when they are disposed of. Specifically, the product shall comply with Appendix 2 “Packaging Material Check List”.

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, Form3 “Packaging Material Check List” shall be submitted.

4-1-2. Prevention of Global Warming

(5) The motors used in the equipment shall conform to the nominal efficiency of IE4 as specified in JIS C 4034-30-1.

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, test results shall be submitted.

(6) The equipment has an energy saving mode (a control system automatically optimizes the minimum pressure setting and operating time for low water flow based on operating conditions (including AI control),etc.).

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, a copy of the corresponding part of the instruction manual etc. that states the energy saving mode shall be submitted.

4-1-3. Restriction and control of Hazardous Substances

(7) The leaching performance of the equipment shall satisfy the standards in the Ministerial Ordinance on Technical Standards for Structure and Material of Water Supply Equipment (Ordinance of the Ministry of Health and Welfare No. 14 of 1997).

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, test results based on JIS S 3200-7 (Equipment for water supply service—Test methods of effect to water quality) shall be submitted.

(8) In manufacturing the applying 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 manufacturer of the applying product or the relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted. (Form4)
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).

4-1-4. Provision of information

(9) The system shall have a function that allows for remote monitoring and management of the operating status via a dedicated mobile application or a similar method.

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, a copy of the corresponding part of the instruction manual etc. that states the information shall be submitted.

(10) The following information a) to d) shall be provided by the instruction manual, etc.

a) Guidelines for Inspection (appropriate inspection cycle and inspection items) and replacement time of consumable parts

b) Safety Precautions

c) What to do when a problem occurs

d) How to identify malfunctions and abnormalities

[Certification Procedure]
Compliance with this item shall be indicated in the Attached Certificate. In addition, a copy of the corresponding part of the instruction manual etc. that states the information shall be submitted.

4-2.Quality Criteria and Certification Procedure

(11) The product quality shall conform to JWWA B 130 of Japan Water Works Association.

[Certification Procedure]

A certificate to show conformance to JWWA B 130 of Japan Water Works Association shall be submitted.

5. Considerations

It is desirable to consider the following items, although they are not requirements for certification. The response to this item shall be described in the attached certificate.

(1) Quantitative environmental information on greenhouse gas emissions throughout the life cycle of the applied product, from the procurement of the raw materials to the disposal and recycling, shall be disclosed, which is calculated by converting into carbon dioxide equivalents based on the global warming potential (when applying for multiple types at once, calculation by a representative type is acceptable). It shall be possible to explain that the quantitative environmental information has been calculated in accordance with the Carbon Footprint (ISO 14067), Life Cycle Assessment (ISO 14040 and ISO 14044), or “Carbon Footprint Guidelines” prepared by the Ministry of Economy, Trade and Industry and the Ministry of the Environment. The medium for disclosing the quantitative environmental information (URL of the calculation report, etc.) shall be disclosed as part of product information on the Eco Mark website.

(2) The applicant (including when action is taken by an entire group) develops and publishes a responsible mineral resources procurement policy for tin, gold, tantalum and tungsten used in the product and is advancing actions to the policy.

(3) The applicant shall conduct responsible business activities and have a verification system for social initiatives such as on human rights. Specifically, they shall proceed with verification based on the items in the “Sustainability checklist for Eco Mark licensees (contribution to regional economies and society, human rights, labor, safety and hygiene, and business ethics)”
(https://www.ecomark.jp/office/sustainableCL/)

6. Product Classification, Indication and Others

(1) Product classification (application unit) shall be by model (product number). Classification by a nominal diameter (bore) or output power

is not conducted.

(2) In principle, Eco Mark shown as below shall be indicated on the product, etc.

(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/)

[issuer] Eco Mark Office, Japan Environment Association
https://www.ecomark.jp/nintei/139.html ✉sinsei@ecomark.jp

[revision history]

June 22, 2026	Revised (Category B-3 established, Version1.7)
December 31, 2032	Expiration date

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

Appendix 1 Product Design Checklist

◆Concept of Product Design Checklist

It is important to work out the design for the resource saving of the products, reuse of parts or raw material recycling. This checklist indicates important indicators for realizing furthered “3Rs” (reduce, reuse and recycle).

◆**Terminology**

Rare metals	31 kinds of minerals (for rare earth, 17 elements are considered as one mineral type) defined in the Special Subcommittee on Rare Metal General Strategy, Mining Industry Council, Ministry of Economy, Trade and Industry in August 1984.

◆Category

Among the requirements of Group A to D in the following table, all Must items (M) must be satisfied. Furthermore, it is desirable to satisfy the Should items (S), while not certification requirements.

Must item (M)	Requirements which must be met
Should item(S)	Requirements which should be met

<table>
<tr><th>No</th><th>Requirement</th><th>Category</th><th>Conformity</th><th>Interpretation</th></tr>
<tr><td colspan="5">[Resource saving, resource circulation]</td></tr>
<tr><td>1</td><td>The weight and volume of the equipment are reduced by reducing the number of parts and the volume of materials used.</td><td>M</td><td>☐Yes
☐No</td><td>The weight reduction/ volume reduction of the equipment helps resource saving. However, reductions in weight or volume are also linked to the strength of the equipment, and it is important to design so that long-term usability is not compromised.</td></tr>
<tr><td>2</td><td>Recycled metals are used in the equipment.</td><td>S</td><td colspan="2">☐Yes
☐No
Fill out below when answered Yes<table><tr><th>parts (material used)</th><th>part weight</th><th>content (%)</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table></td></tr>
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No	Requirement	Category	Conformity	Interpretation
3	The equipment is designed in consideration with the use of common components for different types of equipment and a reduction in the number of components.	M	☐Yes ☐No	The use of common components and a reduction in the number of components saves resources and simplifies component management in the production process, and leads to production matched with inventory and lower waste.
[Longevity]				
4	The equipment is designed for easy replacement of consumable parts in consideration with repairs.	M	☐Yes ☐No	Making repairs easier to carry out extends the service lifetime of the equipment.
5	The components and materials that make up the equipment are designed for improved durability. Specifically, is the equipment designed with consideration to use of components that are resistant to corrosion, abrasion, staining, and heat?	M	☐Yes ☐No	To extend the lifetime of the equipment, the components must be resistant to corrosion, abrasion, staining, and heat, based on JIS, etc.
[Recyclability]				
6	Parts are made of unified metallic or plastic materials within the range that their functions are not impeded.	M	☐Yes ☐No	The smaller the varieties of materials are, the more efficient the separation and recycling processes are. This requirement does not apply to parts that have been certified as reused parts.
7	Attachments connecting or fixing 2 or more components are removable.	M	☐Yes ☐No	It is necessary to also consider a trade-off with safety, so this requirement does not apply to parts requiring safety.
8	Metallic compositions are used as versatile ingredients in Japan in expectation of recycling into similar materials after use	M	☐Yes ☐No	To avoid impediment of horizontal recycling, alloys and materials generic in Japan shall be used, and the use of alloys and materials with different elements avoided.
9	Avoiding the use of combinations of difficult to separate different alloys (e.g. SUS304 and SUS316)	M	☐Yes ☐No	
10	Avoiding the use of welded parts which are difficult to separate and sort. (e.g. iron and cupper)	M	☐Yes ☐No	It is necessary to also consider a trade-off with safety, so this requirement does not apply to parts requiring safety.
[Facilitating and Advancing Recycling]				

No	Requirement	Category	Conformity	Interpretation
11	To facilitate recycling of rare metals (tantalum, neodymium, dysprosium, cobalt and tungsten) contained in the device, a system (provision of information, ease of part identification, etc.) that can identify parts containing many rare metals and provide the information to recycling operators (recyclers) is available.	S	☐Yes ☐No	It is required to know of the elements which are contained in the device in a relatively large amount and for which replacement or recycling technologies are being developed, and to recycle them efficiently. In this item, five elements (neodymium, dysprosium, cobalt, tungsten and tantalum) are highlighted, which are elements highly possibly used in devices listed in “types of mineral on which emphasis of recycling should be placed” in the “vision of recycling of useful metals in used products (second report)” (October 2012), and it is required to identify the part that contains much rare metals as well as the system to easily separate the corresponding parts, to display identification and to easily provide information to the recycling operators.
12	With regard to the rare metals other than those provided for in No.11 in this checklist, the parts which contain two or more rare metal elements are identified.	S	☐Yes ☐No ☐ confirmed less than 2 metal element	In order to recycle rare metals, it is desirable to understand information in the product design stage. In this item, it is recommended to grasp the amount of such rare metals contained, although it is not included in the requirements.
All [mandatory] items are met and answered “Yes”			☐Yes ☐No	

Appendix 2 Packaging material checklist

■List of packaging material used for the product.

Specify a name, mass, ratio of recycled materials in use of packaging materials that are used per product.

No.	Packaging material used for the product (recycled material, etc.)	mass[g]	Ratio of recycled material in product
1			%
2			%
3			%
	Total		

Entry examples of the packaging materials in use: cardboard, polyethylene, foamed polystyrene, pulp mold.

■Packaging material checklist

It is determined that the product conforms to the criteria if all requirements below are met (except for [Should items]).

No.	Requirement	Compliance	Remarks
1	Is the product designed giving consideration to weight reduction/volume reduction?	☐Yes/☐No	The perspective of reduction is crucial when considering the design of packaging materials,
2	Is the product designed giving consideration to use of recycled materials? (Waste paper, recycled plastic, etc.)	☐Yes/☐No	“Consideration” means to examine the possibility of use of recycled materials at the stage of selection of materials or designing of the packaging.
3	Is the recycled waste paper used 70% or more, or the paper made from forest certified wood used?	【Should item】 ☐Yes/☐No	Indicate any packaging material used in the above list.
4	Is the recycled plastic used 40% or more, or the biomass plastic (bio-based synthetic polymer content) used 25% or more?	【Should item】 ☐Yes/☐No	Indicate any packaging material used in the above list.
5	Is the ink containing biomass used?	【Should item】 ☐Yes/☐No	Ink containing biomass refers to ink containing recyclable bioorganic raw materials (containing plant-based oil and excluding fossil resources).
6	Is the common use (only two types of separable polymers or a polymer blend) or reduction of plastic materials implemented?	☐Yes/☐No	It is desirable to unify materials by product of the same company or standardize packaging materials used for the same product.
7	Is the product designed giving consideration to selection of a material that is easy to recycle or reuse?	☐Yes/☐No	It is desirable to select a material that consumers can easily send to recycling, etc.
8	If dissimilar materials are used in combination, is the product such designed that separation of parts is easy?	☐Yes/☐No ☐No combined use of dissimilar materials	Dissimilar materials herein stated refer to metals and plastics, paper and plastics, etc., and do not mean a difference by a type of plastic.
9	Are materials identified according to the regulations or JIS, etc., so that	☐Yes/☐No	It is necessary to provide an appropriate indication so that

	the product can be easily recycled or reused.		consumers can send the product to recycling, etc.
10	Are materials to be used in packaging selected so that use of any chemical substances which affect the environment is avoided or reduced? (Non-use of polymers containing halogens)	□Yes/□No	If any chemical substance that affects the environment is used, it will be a problem when the product is recycled or disposed of.
11	Is there a system for collection and reuse or recycling of packaging materials?	【Should item】 □Yes/□No	It is desirable that the product has a collection/recycling system.