

# Environmentally Friendly Products



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"Product development, the operation of environmental management systems, and all other business-related environmental activities are carried out in accordance with the Group policy towards creating an environmentally friendly, sustainable society."

## Product Evaluation Using LCA

Yamatake first adopted LCA methodology to assist in the development of environmentally friendly products in 1999. Since then, we have greatly expanded the number of our products subject to this assessment method.

In fiscal 2001, we conducted product analysis using the LCA software Sima-Pro V5, produced by the Dutch company Pre-Consultant. Furthermore, we introduced *Eco-Indicator 99*, an analysis method that focuses on end-point environmental impact, to replace our conventional product analysis method, *Eco-Indicator 95*.

The graph on the right displays the LCA analysis results for MCB10A.

## Environmental Labeling

In April 2001, we introduced Yamatake's original environmental labeling system in order to better disclose environmental information about our products. This environmental label (self-declared environmental information in compliance with ISO14021 standards) is awarded to products of advanced environmental design that display a 10% or greater overall improvement in environmental design assessment results.

## Environmentally Friendly Product Development

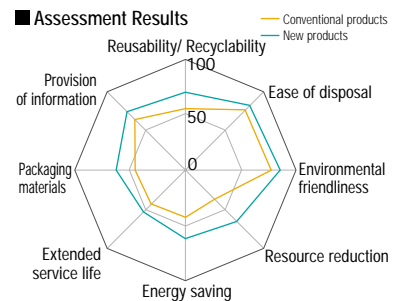
The principles of environmental design assessment are applied to all new products during their development. We give full consideration to the environmental impact at each stage of a product's life cycle, from design through to disposal, and are actively pursuing product development in accordance with the General Principles for Developing Environmentally Friendly Products.

### General Principles:

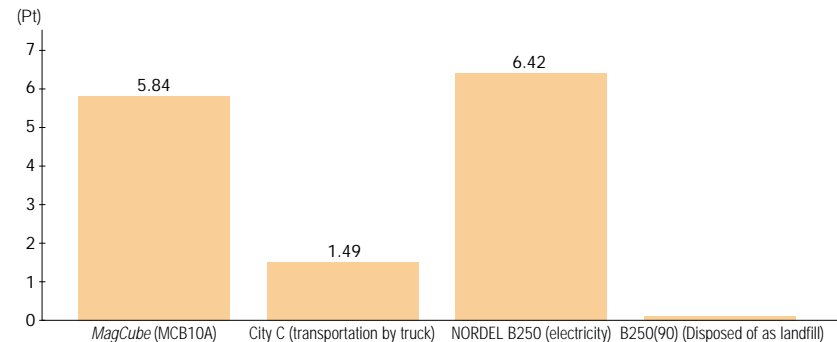
All newly developed products are evaluated in each of the following categories: energy saving, resource reduction, reusability/recyclability, extended service life, recycling of packaging materials, ease of disposal, and environmental friendliness. Furthermore, products developed in accordance with these General Principles display Yamatake original environmental label.

### Environmental Design Assessment Results:

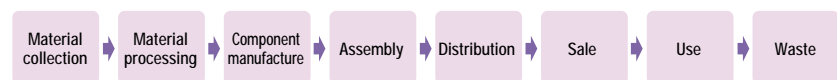
The fiscal 2001 consolidated environmental design assessment results showed a 16% overall improvement in environmental impact reduction for the entire Group. In particular, we achieved a 28% improvement in resource reduction and 19% in energy saving.



### LCA Results for the Electromagnetic Flowmeter *MagCube* (MCB10A) (using *Eco-Indicator 99* methodology)



### LCA Flow Chart



Network Building Automation System savic-net EV model10 (integral wall-mount type) is certified with Yamatake's original environmental label.



### Environmental Labeling Criteria (Summary)

1. Conduct environmental design assessments
2. Achieve a 30% or greater improvement in one or more of the seven key principles for product development, or a 10% or greater improvement overall