

5 Reduction of Environmental Impact in Downstream Processes

The Yokogawa Group has been striving to reduce the environmental impact of products throughout the lifecycle, from use to disposal.

1. "Green" Products

In fiscal 2000, we rolled out 11 new environmentally friendly products that passed the environmental assessment. Some examples are described below.

(1) AL400G Alkalinity Analyzer

An alkalinity analyzer measures the concentration of the alkali content that consumes acids such as carbonate ion, and is typically installed in a purification plant to control flocculant injection. In comparison to the earlier model, the AL400G consumes 17% less agent, 5% less cleaning water, and is 33% smaller. The life-cycle assessment showed that the new model produces 34% less carbon dioxide than the earlier model.

AL400G Alkalinity Analyzer



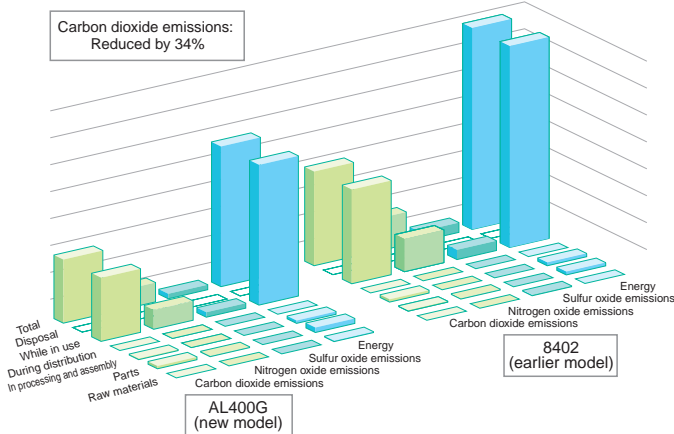
(2) MY10 Series Analog Insulation Testers

The MY10 series analog insulation testers have a smaller, lighter body with superior power efficiency and additional AC voltage measurement and automatic discharge functions. In comparison to the earlier model, the 3213, the MY10 series testers are 30% smaller (with dimensions of 125 [W] x 103 [H] x 52.5 [D] mm), 40% lighter, and consume 70% less power. The life-cycle assessment showed that it produces 57% less carbon dioxide than the 3213.

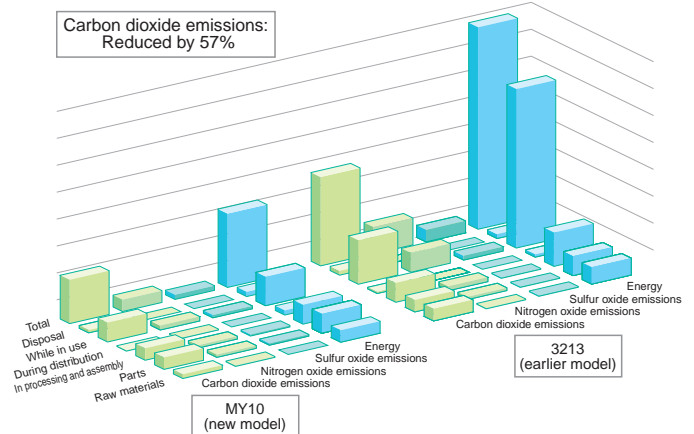
MY10 Series Analog Insulation Tester



Comparison Chart using LCA Tool
AL400G (new model) versus 8402 (earlier model)



Comparison Chart using LCA Tool
MY10 (new model) versus 3213 (earlier model)



2. "Green" Packing

To reduce the use of Styrofoam as a packing material for measuring instruments, we use pulp mold cushions for selected products, and started using a new packing material, film cushions. And for industrial instruments, we started using returnable tote boxes for magnetic flowmeters and vortex flowmeters weighing 25 kg or less to curb the use of packing materials.

(1) Film Cushions

Film cushions are made of rugged, elastic, non-slip sheets of film stuck to a cardboard frame. A product is supported by two sheets of film that absorb shock, and floats in the package. Film cushions are ideal for products having fragile surfaces and are highly flexible. Currently, film cushions are used for 28 products.

Pulp Mold Cushions



Film Cushions



(2) Returnable Tote Boxes

Plastic returnable tote boxes (containers) have dramatically reduced the impact of packing materials on the environment. The returnable tote box delivery service relieves customers from the cost and effort of disposing of cardboard boxes and packing materials of products. This trial system is the first of its kind in Japan for delivery to non-specific customers.

(3) Packing-free Delivery

Yokogawa Rental & Lease Corporation, as a result of a joint study with a transportation company, established a delivery system in which products are not packed and yet the quality is assured (practicable only for specific customers). In this system, products are sandwiched between cushions and strapped with a rubber band on a wheeled cage, and the cushions and wheeled cage are used both when delivering and returning products. This system is used for two thirds of the products delivered by Yokogawa Rental & Lease Corporation.

Returnable Tote Boxes



Packing-free Delivery

