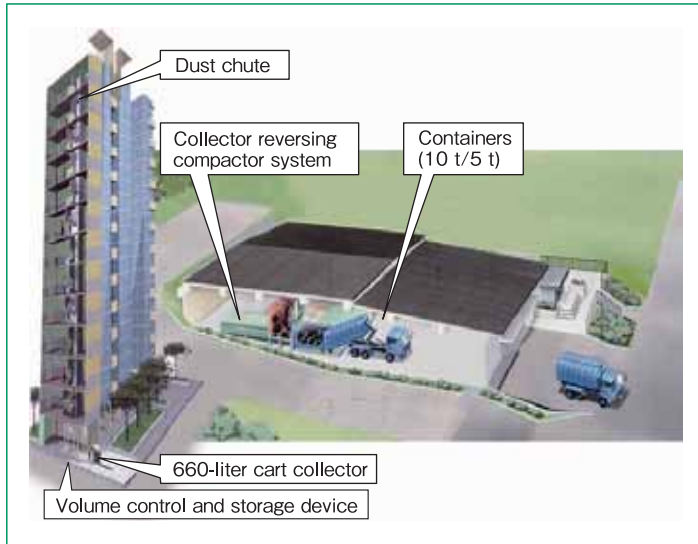


Clean and efficient refuse collection and transport from high-rise buildings

## Refuse Collection System for High-rise Buildings and Transfer Station

### Features

- Collects and loads refuse on a cart hygienically without using elevators or other electrical devices.
- Uses a compactor and container system to compress and transport refuse, thus alleviating traffic jams and reducing transportation costs.



High-rise residential building and bin center



High-rise Apartment Refuse Collection System (Volume control and storage device)

### Overview

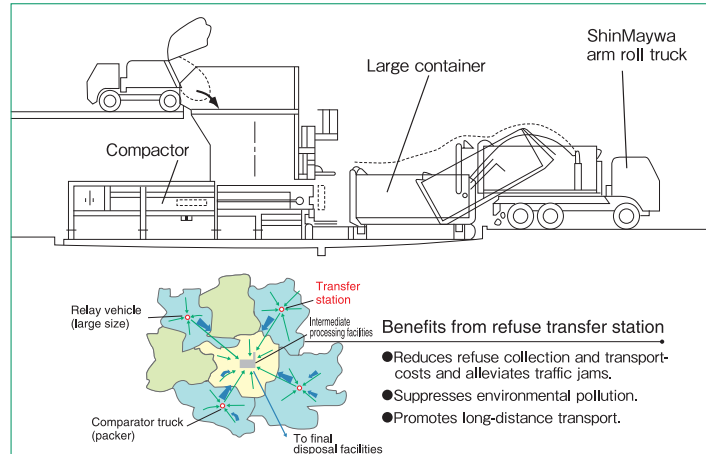
(Technical principles, actions, etc.)

#### High-rise Apartment Refuse Collection System

This system incorporates a volume control and storage device that can be located below the dust chute the type of which is generally used for overseas high-rise residential buildings. The system incorporates a dumpster provided with a refuse amount sensor as well. When the dumpster is full, the refuse deposit on each floor will be locked and the lamp on the refuse deposit will flash. When a 660-liter cart collector is connected to the specially designed opening of the chute and the discharge button of the system is pressed, the gate on the bottom of the dumpster will open to discharge the refuse onto the collector. For safety purposes, a sensor is provided to detect the cart collector.

### Relay and Transport System

This system uses a compactor to compress general waste collected by a variety of cart collectors or compactor trucks load the waste into large-sized containers so that the containers can be transported on arm roll trucks to landfill sites or incinerators that are far away from the apartments. The system is uniquely designed so that the waste will not be easily spilled out when a container is detached from the compactor.



Overview and effect of relay and transport system

### Introductory Track Record

#### High-rise apartment refuse collection system

Delivered to	Country	No. of units	No. of households
①Housing Authority /Hong Kong		3	About 640/unit
Others: Delivery of 20 units is expected.			

#### Relay and transport system

Delivered to	Country	Quantity of waste disposal
①Bangkok	/Thailand	2,000 t/day
Others: Indonesia (Jakarta), Malaysia (Kuala Lumpur), and China (Xian)		



Waste Transfer Station at Nongkhaem, Bangkok

### Effects

#### High-rise apartment refuse collection system

- The system saves power necessary for the transport of refuse to bin centers by elevators or other devices.
- The system applied to buildings helps keep the buildings clean and sanitary while enabling efficient refuse storage and discharge.

#### Relay and Transport System

- Refuse is collected by small vehicles of high mobility from apartments on narrow streets, and compressed and stored in large containers at relay facilities. Then arm roll trucks transport the containers to landfill sites or incinerators far away from the apartments, thus saving the fuel consumption of the vehicles used for refuse collection.
- Efficient capital investment with less transport costs.

Applicable field  
Garbage collection, long-distance transport systems, and high-rise residential building

Water

Energy saving/Energy recovery

Energy storage/Energy creation

New energy

Waste disposal/  
Recycling/  
Resource saving

Air

Soil

Other

## ShinMaywa Industries, Ltd.

Environmental Systems Division, Sales Department ShinMaywa Ueno Bldg. 5-16-5 Higashiueno, Taito-ku, Tokyo 110-8620

● TEL / +81-3-3842-6332 ● FAX / +81-3-3842-6335 ● E-Mail / env.eigyo@sb.shinmaywa.co.jp ● <http://www.shinmaywa.co.jp/>