

Backroom

MODULA

Reverse Vending Machines



Making recycling easier.



Your backroom. Fully optimized.

Designed for the demanding environments of large supermarkets and hypermarkets, the Envipco MODULA features a high-performance dual infeed system capable of a combined processing speed of up to 90 containers per minute. The modular architecture allows you to configure up to 8 compartments, giving you the freedom to extend capacity or adapt to new material streams.



Capable of handling PET bottles, cans, one-way glass, and refillable glass, MODULA features Envipco's patented compaction technology and active glass breaking for maximum density. Whether installed as a streamlined in-store backroom system or a dedicated outdoor kiosk, MODULA is built to handle the heavy lifting.

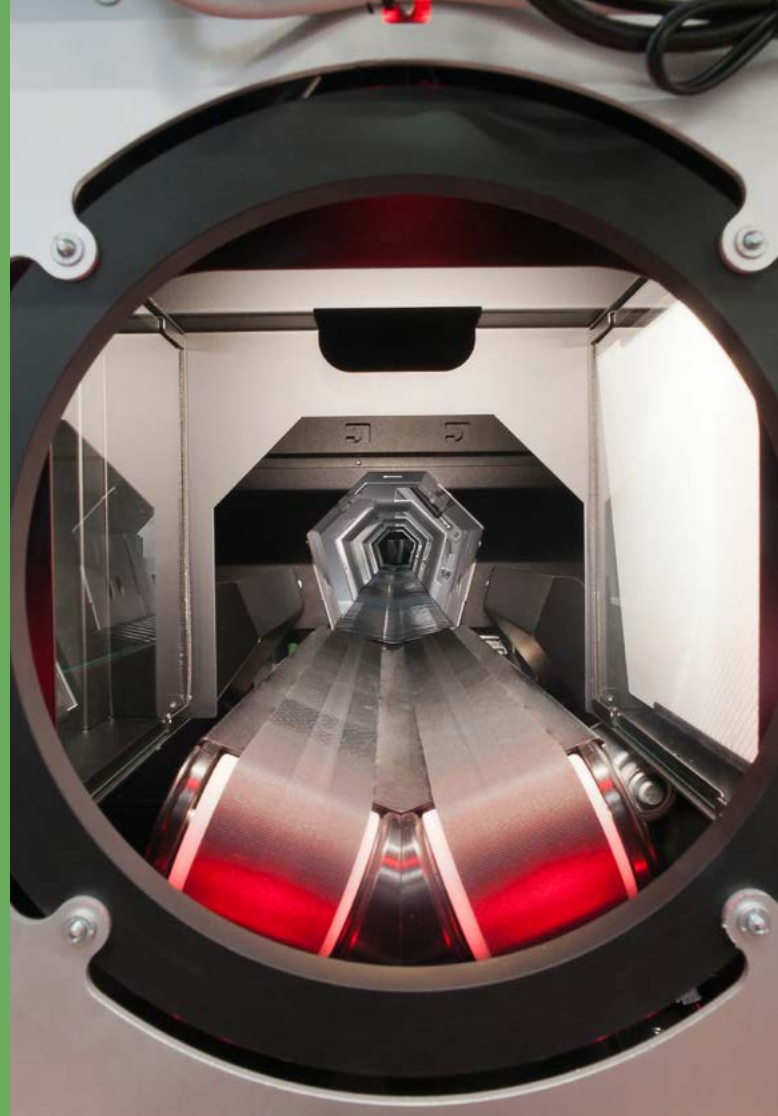


Envipco technology

Powered by Envipco's industry-leading recognition technology, the system incorporates a sophisticated recognition system featuring a full 360-degree camera ring for instant barcode reading and shape recognition, eliminating the need for container rotation.

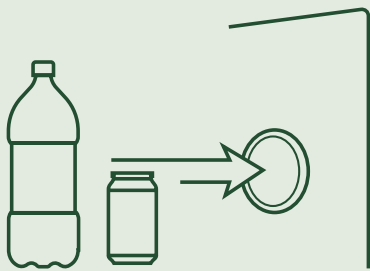
Integrated metal sensors and precision weight measurement further verify material type and detect residual liquids, delivering advanced fraud prevention and ensuring that only eligible containers are accepted.

Once identified, intelligent pneumatic nozzles and heavy-duty paddles route items to their specific compaction streams.



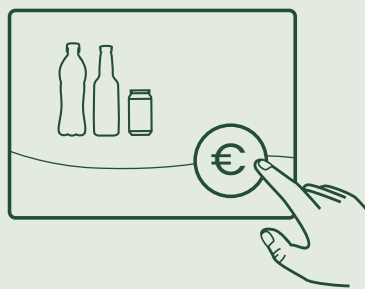
An easy customer journey

The customer journey is as easy as 1-2-3.



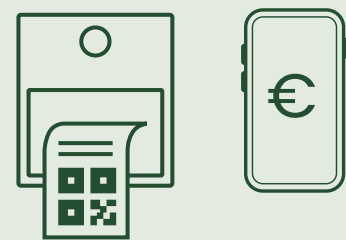
Insert

Insert containers in the infeed



Process

Real-time progress is displayed on the 10" high-resolution, sunlight-readable touchscreen.



Reward

When finishing the transaction, instantly receive a QR Code, paper voucher, or digital payout—scannable on-screen or via the built-in scanner in the machine.

Store more, occupy less

The Envipco MODULA features a flexible storage system with up to 8 compartments, each accommodating a standard Euro pallet bin or two ½ Euro pallet bins. Engineered for non-stop operation, the system automatically redirects containers to the next available bin once a compartment reaches capacity. Integrated sensors continuously monitor bin presence and fill levels, allowing operators to empty individual bins without interrupting the machine's operation.



Each Euro pallet bin stores up to:

- 5000 cans
- 1750 PET bottles
- 2300 Commingle cans/PET bottles (50/50)
- 1300 glass bottles (limited by weight)

Each compartment comes with a dedicated compactor, handling container streams from both sides with ease.

It supports Envipco's industry-leading compactors for all types of materials:

- Cans: WaveCan Compactor (patented)
- PET bottles: PinPET™ Compactor (patented)
- Commingle cans/PET bottles: PinWave™
- One-way glass: Hex Active Glass Breaker



The bin compartment comes with a vertical door opening for ease of emptying and minimal footprint required.



In addition to the bin compartments, the MODULA can be equipped with a Bottle Raise and Collection Table for refillable bottles, a motorized SoftDrop cart, or wheelie bins for one-way glass with natural breakage.



Motorized SoftDrop Cart

The motorized SoftDrop cart can handle up to 200 bottles.

It also comes with an additional battery for standalone use, making it easy for the user to move it around. The battery charges with a magnetic cable connected to the machine.



Bottle Raiser and Collection Table

The Bottle Raiser and Collection Table handles the refillable bottles. It has a modular design and scale with your needs.

It can handle from approximately 300 going up to 600 bottles. The table contains sensors to notify staff in case it's full.



Wheelie bins

The wheelie bins can be placed at the end of the machine for one-way glass collection with natural breakage.

Digital and APIs

Enterprise-Grade Security & Compliance

Your data is safeguarded by SOC 2 Type 2 certification and "Privacy by Design" architecture, ensuring rigorous GDPR compliance and operational integrity.

Secure POS Integration

Protect revenue with our POS Desk API. We provide real-time voucher validation to prevent fraud and double-redemption by instantly verifying and "locking" codes during the transaction.

Operations & Fleet Management

Maximize uptime via the enVision ePortal API. Receive real-time alerts (e.g., bin full, printer out of paper) and monitor fleet heartbeat to preemptively address service disruptions.

Bin Modules Engineered for Endurance

The MODULA bin compartment is built to withstand the harshest backroom environments. The entire structure features a durable powder-coated finish—inside and out—ensuring a prolonged lifespan and easy maintenance.



Robust conveyor system

Designed for longevity and serviceability, the conveyor is constructed from hardened plastic reinforced with metal braces. Its modular design allows for individual pads to be replaced if damaged, reducing maintenance costs and downtime.



True Scalability

Grow your system as your volume grows. The Modula allows you to quickly align and attach additional conveyor frames and electronics. This “plug-and-play” expandability means you can increase capacity later with zero hassle.



Stable & Freestanding

No floor bolting required. Thanks to its inherently stable design, the bin compartments are completely freestanding. Standard adjustable feet ensure perfect leveling and quick installation on any surface.



Electronic Payment & Loyalty

Modernize the user experience with dynamic QR codes for digital wallet payouts, direct loyalty card integration for point accrual, and charity donations.



Built for reliable operations

MODULA is designed to keep performing in demanding environments. Its architecture support high uptime, predictable operations, and efficient service across single locations or large fleets. System monitoring and automated alerts help operators anticipate issues before they affect daily operations, reducing downtime and manual intervention.

High-Performance Dual Infeed



Don't let lines build up. MODULA allows two users to deposit containers at the same time on one machine. This doubles your intake capacity up to 90 containers per minute, ensuring a fast, frictionless recycling experience for everyone.

Expert support. Anytime. Anywhere.

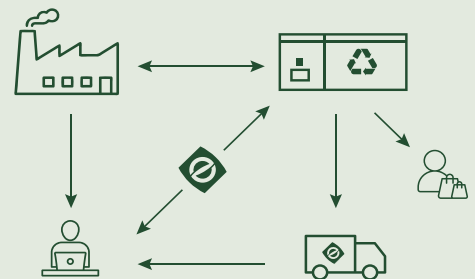


Envipco supports MODULA throughout its full lifecycle.

Live field service technicians provide on-site maintenance and rapid issue resolution. Dedicated helpdesk teams offer remote support and specialized assistance. Proactive monitoring enables early intervention and efficient service planning.

Enabling retailers to recycle more

Envipco works as a partner to retailers and operators, connecting DRS requirements with operational reality and consumer experience.



From system design and installation to long-term service, we support the entire process. This helps customers recycle more without adding complexity to daily operations.

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