

CVR11 3+1 SYSTEM



ARROWHEAD



Electrical Box
(Pc / Transmitter/
Battery / Connections etc.)

Modular System
1 / 2 / 3 / 4 / 5 ... etc.

Left and Right opening
Throw Door

QR Code

Ventilation for high
temperature control



Informations

Triangle Lock

3 Containers 1100Lt



ARROWHEAD MACHINES

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Automated CVR11 Above-Ground Bin System

The automated above-ground bin system is a pioneering approach to recycling, combining environmental awareness with the aesthetic upgrade of public spaces. Designed to serve the needs of each municipality, this reward-based recycling system rewards citizens for their participation.

Flexibility and Adaptability

The system is modular, offering complete flexibility. It can start with a single drop-off door and expand to up to ten (10), adapting to the specific requirements of each municipality. Each door corresponds to a 1100-liter bin, suitable for urban waste or recyclable materials, with clear labeling for easy sorting.

Smart Technology and Functionality

The system is designed to improve the aesthetics of the surrounding area. Access to the drop-off doors is easily done via RFID or via an application, by scanning a QR CODE. Each waste or recyclable material is weighed before disposal, and the corresponding units are credited to the user's account. In addition, the system has:

- **Fill Level Control:** Integrated fill level control system, allowing the municipality to monitor the condition of the bins in real time.
- **Automatic Overfill Prevention:** When the bin is full, the door automatically locks, preventing overflow.

Simple Maintenance and Integration

During collection, the municipal employee uses a master key for easy access to the bins. The system is fully compatible with the municipality's existing waste management equipment, eliminating the need for additional interventions.

Energy Autonomy and Communication

The system can be powered by the Public Power Corporation's electricity grid or operate autonomously with batteries and photovoltaic systems. Communication with the municipality is done via 4G LTE / GSM, ensuring reliable and immediate updates.

In summary:

- **Flexible:** Adapts to the needs of each municipality.
- **Rewarding:** Rewards citizens for recycling.
- **Smart:** Features weighing technology and fill level control.
- **Aesthetic:** Improves the image of public spaces.
- **Easy to use:** Simple access and maintenance.
- **Autonomous:** Autonomous operation capability.

Additional equipment:

- Photovoltaic panel, inverter and batteries for powering the above systems.
- Smoke / fire safety control system.
- Deodorization system with activated carbon filter.

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TECHNICAL SPECIFICATIONS

CVR11 3+1

**POWER: 220V / BACK UP RECHARGEABLE
BATTERY**

CAPACITY: 3 X 1100LT

WEIGHTING CONTAINER

VOLUME: MAX 60LT

MAX WEIGHT

MEASURING: 100KG (ACCURACY \pm 0.5%)

OPENING: AUTO OPENING THROW DOOR

**ACCESS CONTROL: RFID / QR CODE (VIA MOBILE
SOFTWARE)**

LEVEL SENSOR: HYPERSONIC LEVEL SENSOR

FIRE SENSOR: OPTIONAL

HALL SENSOR: INDUCTIVE SENSOR

**CONNECTION: 4G LTE TRANSMITTER WITH MQTT
PROTOCOL**

WARRANTY: 24 MONTHS



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