

REFUSE COLLECTING VEHICLE (RCV)

(Automatic)

TECHNICAL SPECIFICATION

1. General

Body Volume (m3)	10
Hopper Capacity (m3)	1,2
Compaction Ratio up to	Up to 6:1
Body Floor	6 mm ST52
Body Sides	4 mm ST52
Body roof	4 mm ST52
Hopper Bottom	6 mm ST52
Lifting Device	120,240,360,770(800)~1100 lts EN-840-1,2,3

2. Body

The body is manufactured convex shaped smooth type at the sides. Inside the body, there will be a push-out plate on rails and actuated with double acting telescopic cylinder. The body is mounted on the vehicle chassis with elastic and rigid elements.

3. Tailgate

Tailgate connected to body with top hinges. There will be automatic locking arrangement between tailgate and RCV hopper body. The tailgate structure is consisting of one slide(carrier), one shovel, hopper and their cylinders. When garbage is put inside the hopper, with the help of the slide and shovel, the garbage goes into body and is compressed with push out plate. Slide moves linearly and shovel moves radially to sweep the garbage inside the body. The slide runs on sliding rails with shoes. The slide cylinder will operate outside of the tailgate.

Accessories on the tailgate:

- Container lifting device for 120,240,360,770(800)-1100lt
- EU standard metal or plastic containers of 1100 literscontainers suitable with:
- EN840-1,2,3 standards.
- Rubber seal between tailgate and body to prevent dirty water leakage.
- Security valves on tailgate to prevent sudden fall of tailgate during maintenance.
- There is safety bar between tailgate & body to be used during maintenance.
- Steps on both sides of tailgate with hand rails.
- 2 nos of rotating beacon light.
- Lamp for night working.

4. Hydraulic System

Hydraulic power is obtained by means of a hydraulic pump mounted to the PTO on the gearbox of the truck chassis.

- Hydraulic oil tank with suitable capacity at the front of the body.
- Hydraulic oil tank has suction filter, return filter, a venting cover, a level and temperature indicator, a ball valve at the suction line and discharge tap.
- All the hydraulic pipes made according to DIN 2391°C, pressure hoses SAE 100R2, suction hoses SAE 100R4 norms.
- Hydraulic cylinders are made from honned tubes and hard chrome plated rods.
- Opening-closing of the tailgate and forward-backward movement of the ejection plate are controlled by manually directional control valve mounted on front of the body. The movement of slide, shovel and lifting device mechanism is controlled by a manually directional control valve

mounted on the tailgate. Also the movement of slide and shovel controls will be electrically. The system consists of required hydraulic cylinders.

5. Operation and Control

- Refuse is loaded into the hopper by means of the container lifting device then it is pressed into the body by the slide–shovel mechanism working in sequence. The operator just pushes required button to start shovel-slide automation.
- There are choosing button for single/continuous cycle for compaction, start, stop, rescue, driver signal and engine accelerating buttons on the control box. There is also extra rescue(emergency) button on the other side of the tailgate. Suitable with EN 1501 standards.
- When the rescue button is pressed the compression cycle movement reverses and stops at the beginning position.
- The refuse is discharged by means of the ejection plate after opening the tailgate. There will be button control on one side of the body suitable with EN 1501 standards.
- There is a load control valve on the hydraulic system to regulate the movements of ejection plate during compaction. It helps to compress the garbage inside the body for best optimization.

6. Painting

The body and tailgate are chemically cleaned from any residue. Then anti rust painted and finally two paint coats with required color.

7. Documents

Manual for Operation & Spare parts in English

8. Varranty

The equipment will be under manufacturer's warranty for a duration of 2 year against all material and workmanship defects.

