



**MINI REAR
STANDARD SPECIFICATIONS
CAPACITY 13 CU.YD.**

1- Body capacity

The minimum capacity of the body, excluding hopper area is: 13 cu.yd.

2- Body dimensions

The body is rounded to permit maximum capacity.

Inside body width is:	88-5/8 in
Outside body width is:	102 in
Inside body height is:	73-7/8 in
Outside body height above frame:	84-1/2 in
Outside body height above frame with tailgate raised:	154-1/2 in
Overall length is:	197-3/8 in
Rear of body to rear of tailgate:	61-3/8 in
Approx body weight without options:	11,000 lb

3- Floor construction

The body incorporates a flat floor running the entire body length.

Floor sheets thickness is:	3/16
Floor sheets yield strength is:	55,000 psi
The body long sills dimensions are:	7-7/8 x 3-1/8 x 3/16 in
Cross members interlace with body long sills to fully support the floor.	

4- Side construction

The body walls are rounded and smooth, improving resistance and featuring lightness.

Body walls thickness is:	3/16
Body walls yield strength is:	72,000 psi
An access door is installed at front left corner to permit access inside the body. The door comes with an opening that gives the operator access to the tailgate lift and ejector control levers without the need to open the door.	
Access door opening dimensions are (body access):	19-5/8 W x 25-1/2 H in
The body opening is partially obstructed by the ejector.	
Access door opening dimensions are (levers access):	2-1/2 W x 5-1/2 H in

5- Roof construction

The body roof is rounded and made of high yield steel to ensure strength when material is packed against it.

Body roof thickness is:	11 ga
Body roof yield strength is:	36,000 psi
The body roof and sides are joined together by two (2) one-piece formed corners.	



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6- Hopper

Hopper capacity is:	2.2 cu.yd.
Hopper depth is:	17-1/2 in
Hopper opening height is:	49-1/2 in
Hopper opening width is:	80 in
Hopper sides thickness is:	0.2 in
Hopper sides steel grade is:	AR450
Hopper sides yield strength is:	175,000 psi
Hopper floor thickness is:	0.2 in
Hopper floor steel grade is:	AR450
Hopper floor yield strength is:	175,000 psi

7- Rear tailgate

The tailgate is operated by two (2) single acting cylinders.

Tailgate cylinders rods are: Chrome plated

Tailgate cylinders bore diameter is: 4 in

Tailgate cylinders rod diameter is: 3-1/2 in

Tailgate cylinders stroke is: 24-1/2 in

The tailgate cylinders are mounted on tailgate side so cylinder rods are protected from debris when the tailgate is opened.

The tailgate cylinders hydraulic lines are equipped with flow restrictors to prevent sudden descent.

The tailgate is held in the closed position by two (2) screw clamps.

A rubber seal is installed on the tailgate to prevent liquid leakage and tailgate banging on back of body.

Tailgate rubber seal height above body floor is: 43-1/2 in

A cab mounted audible alarm is provided to indicate when the tailgate is not closed.

Tailgate safety props are provided.

Tailgate opening in the propped position is: 33 in

Bolt-on riding steps are provided on each side with two (2) one (1) inch diameter grab handles.

The steps are made of grip-strut open grate.

Steps vertical adjustment is: 3 in

Steps dimensions are: 35-1/8 L x 7 W x 1-1/2 H in

Distance between tailgate loading sill and top of chassis frame rails is:

-2 1/2 in

Tailgate open cycle time is: 11 sec

Tailgate close cycle time is: 13 sec

Tailgate pins diameter is: 2 in



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8- Packer

Packer faceplate thickness is:	3/16 in
Packer faceplate yield strength is:	72,000 psi
The packer plate is operated by two (2) double acting cylinders.	
Packer cylinders rods are:	Chrome plated
Packer cylinders bore diameter is:	4 in
Packer cylinders rod diameter is:	2-1/2 in
Packer cylinders stroke is:	23-1/2 in
Packer cylinders pins diameter is (packer side):	1-3/4 in
Packer cylinders pins diameter is (carrier side):	1-3/4 in
Maximum operating pressure:	2,550 psi
Maximum load density is (based on household refuse):	800 lb/cu.yd.
The packer plate compacts material into the body against the ejector panel and the body roof. The ejector panel moves toward front of truck as the body is filling up without any assistance from the operator.	
The packer plate is protected from overload by a relief valve integrated into the packer main valve.	
Carrier faceplate thickness is:	3/16 in
Carrier faceplate yield strength is:	72,000 psi
The carrier plate is operated by two (2) double acting cylinders.	
Carrier cylinders rods are:	Chrome plated
Carrier cylinders bore diameter is:	4 in
Carrier cylinders rod diameter is:	1-3/4 in
Carrier cylinders stroke is:	29 in
Carrier cylinders pins diameter is (carrier side):	1-3/4 in
Carrier cylinders pins diameter is (tailgate side):	1-3/4 in
Packer carrier complete cycle time:	20-23 sec
Carriers are guided by slide shoes and rails.	
Slide shoes wear plates material is:	Polymer
Slide shoes dimensions are:	14 x 6 x 2-3/4 in
The packing control handles are able to stop and reverse the packing mechanism at any position in the cycle.	
Auto throttle advance is provided on packing cycle.	



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9- Ejection system

Unloading is executed by a full ejection system.

Control lever for ejection is located at front, left side of the body.

Ejector panel is full height.

Ejector panel faceplate thickness is:

1/8 in

The ejector panel travels the full length of the body.

Ejector cylinder is telescopic and made of multiple stages

3 stages

Ejector cylinder bore diameter(s) are:

6 - 4-1/2 - 3-1/2 in

Ejector cylinder stroke is:

66-1/2 in

The ejector cylinder is angled upward from its front mount location to avoid forces being directed into the body floor.

The case end of the cylinder is attached to the ejector panel and is secured approximately half way up the panel to counter the tipping forces applied by the tailgate packing mechanism.

Ejector panel is guided by two tracks located on the body side 7" above the body floor.

The tracks dimensions are:

4 x 4 in

Ejector panel rides on metallic guide shoes.

Throttle advance button provided at the front left of the body .



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10- Hydraulic system

The hydraulic system is designed to ensure easy maintenance.

The hydraulic system is composed of one (1) married spur gear type pump connected to a hot shift PTO.

PTO control mounted in cab.

Hydraulic pump model is:

PGP020

Pump maximum flow at 1,200 RPM is:

22 gpm

The maximum pump flow varies according to engine power and transmission model. 1200 is the engine RPM.

Hydraulic system pressure relief valve set to:

2,550 psi

Hydraulic tank capacity:

30 gal

The hydraulic tank is equipped with clean-out cover, ceramic magnetic ring, oil level sight gauge, shut-off valve in suction line and a check valve on return line.

The hydraulic tank is located on curbside and mounted on body floor.

Hydraulic tank filler/breather combination cap element size is:

10 mic

Hydraulic tank return line filter element size is:

10 mic

Hydraulic tank suction line strainer size is:

125 mic

Hydraulic tank suction line strainer integrated bypass pressure:

5 psi

The return line filter has a bypass valve and a differential pressure filter indicator.

The hydraulic tank is baffled.

The return line filter have replaceable cartridge element.

All hydraulic connections have 37-degrees JIC fittings on pressure and return lines. Valves and cylinders have SAE O-ring boss ports.

All hoses are double braided wire minimum, high burst capacity and reinforced with nylon wrap to prevent chaping.

Hydraulic tubing is used where flexibility is not needed.

All pipes are zinc plated to prevent corrosion.

All hydraulic tubings are securely clamped to prevent vibration, abrasion and excessive noise.

All hydraulic hoses meet S.A.E. standards for designed pressure and bends respect recommended S.A.E. standards.

Hydraulic system operates at an acceptable temperature without the need for external hydraulic oil cooling devices.

Quick connect fitting is provided so that a pressure gauge can be easily connected without the use of tools or the need to remove hydraulic fittings.

Main valve and front valve are spool stack style to allow replacement of defective sections without replacement of the entire valve.



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11-Electrical system

All stop, turn, tail and clearance lights are LED, recessed grommet mounted and watertight.
All lights are provided following FMVSS #108.
Lower rear lights are integrated to tailgate structure.
Back-up alarm is provided.
All limit switches are proximity switches.
All circuits are properly protected (circuit breakers).
All wiring is color coded and numbered.
Electric harness connections are Weatherpack connectors.
Electrical Wires are GXL type.
All wiring conforms to SAE J1128.
All wiring connections are sealed with shrink tubes and at some places blue crimps sealed with epoxy.
All wiring run in plastic loom.

12- Safety interlock system

Interlock to prevent use of engine speed-up when transmission is not in neutral.
Interlock to prevent the hydraulic system from operating when the body access door is opened.

13- Warning light and buzzer

Red light and buzzer (in cab) when tailgate is not closed.

14- Controls characteristics

Tailgate lift control is located at the front left corner of the body.
Ejector control is located at front left corner of the body.
Packing cycle is activated by two (2) levers located curbside on the tailgate.
A push button that activate a buzzer in cab is provided on both sides of the tailgate to signal any event to the driver.

15- Accessories

Safety props are provided for tailgate.

16- Painting

The truck will be properly cleaned of all dirt, grease and weld slag.
Body and hopper will be steel gritblasted.
One coat (0,002") of polyurethane primer Imron Elite is applied.
One finish coat (0,002") of polyurethane paint Imron Elite is applied.
Unforced dry process.
The body is painted one color.



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17- Manuals

Parts, service and operator's manuals are supplied for the refuse packer (CD).

One (1) hard copy of the operator's manual is supply with the refuse packer.

Parts, service and operator's manual are available online at www.labrieplus.com

18- Lubrication

All body hinges, cylinder rod ends, cylinder bases, trunnions and pivot points are supplied with grease fittings.

19- Warranty

Length of warranty on defective parts will not be less than:

1 year

Length of warranty on hydraulic cylinders, valves, pump and PTO will not be less than:

1 year

The body manufacturer is certified ISO 9001.

All internal inspection documents such as intermediate inspection booklets made at the body manufacturer plant are available and filled for each vehicle.