

AUTOMIZER

STRAIGHT-FRAME AUTOMATED SIDE LOADING BODY

Body Capacities:

Available on 3-axle chassis in capacities of 27, 29, and 31 cu. yd. (21, 22, and 24 m³)

SPECIFICATIONS

Body

- Body floor: 10 ga. (3.4 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
 - Sides: 12 ga. (2.7 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
 - Long sills: HSS tubing, 6" x 2" x 3/8" (152 mm x 51 mm x 9.5 mm), yield strength 50,000 psi (345 MPa)
 - Roof: 12 ga. (2.7 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
 - Tailgate: 12 ga. (2.7 mm), A-715 GR 80F, high-tensile steel, yield strength 80,000 psi (550 MPa)
 - Unit weight: 13,175 lb. (5968 kg) – [27 cu. yd. (21 m³) including the arm and all hydraulic components]
- #### Hopper
- Fully enclosed, directly behind cab
 - Floor and sides: 1/4" (6.3 mm), S-107, abrasion resistant, high-tensile steel, yield strength 65,000 psi (450 MPa)
 - Ram face: 1/4" (6.3 mm), A-514/CHT-100, abrasion resistant, high-tensile steel, yield strength 100,000 psi (690 MPa)

- Ram height: 24" (609 mm)
- Two easily replaceable packer wear shoes AR-425, abrasion resistant, 400-477 Brinell surface hardness
- Two AR-500 packer rail guides on hopper floor

Hydraulics

- Double pump Denison:
 - Arm section: Pistons pump T6H20C (at fast idle speed) or T6H29C (work at idle speed)
 - Body section: Vanes pump
- Main valve: Gresen V42
- Directional valve for the arm: Danfoss; 2 proportional sections and one on/off section
- Setting of the arm relief valve: 3,000 psi (21 MPa)
- Setting of the body relief valve: 3,000 psi (21 MPa)
- Adjustable cushioning of the arm
- Recommended flow rate of the vanes pump: 40 gpm (150 litres/min.) at 1,500 rpm
- Recommended flow rate of the pistons pump:
 - T6H20C: 17 gpm (64 litres/min.) at 1,500 rpm
 - T6H29C: 11.5 gpm (44 litres/min.) at 700 rpm
- 66 US gal. (250 litres) pressurized hydraulic oil reservoir
- 100 mesh strainer at pump inlet
- 7-micron in-tank return filter at 150 gpm (570 litres/min.)
- Double and quadruple braided wire hoses covered with nylon wrap

PRODUCTIVITY DATA

| | |
|---|---|
| • Packer cycle time: 20 sec. at idle speed | • Maximum payload density: 900 lb./cu. yd. (535 kg/m ³) |
| • Packer cylinder force: 75,400 lb. (335 KN) at 3,000 psi | • Dumping cycle time: 75 sec. at idle speed |
| • Arm cycle time: 8 sec. at maximum reach | • Tailgate cycle time: 40 sec. at idle speed |
| | • Packer swept volume: 1.75 cu. yd. (1.33 m ³) |

CHASSIS REQUIREMENTS*

| Body capacities | C.C.A. | W.B. | A.F. | Chassis suitability |
|---|-----------------|-----------------|-------------|--|
| 27-29-31 cu. yd. (21-22-24 m ³) | 198" 5029 mm | 222"*** 5639 mm | 55" 1397 mm | Tandem axle equal to or more than 60,000 lb. (27 180 kg) |

* On cab over chassis. Also available on conventional cab & chassis.
** Available on different wheelbase configurations.

- Extensive use of hydraulic tubing to minimize use of hydraulic hoses and ease maintenance
- Hydraulic overspeed protection standard with electronic transmission

Cylinders

- Front-mounted telescopic hoist 180" (4572 mm) stroke, 4 stages, 6.5" (165 mm) bore, with outer cover and bottom lifting [on 27, 29, and 31 cu. yd. (21, 22, and 24 m³) bodies]
- Two 4" (102 mm) double-acting cylinders developing a compaction force of 75,400 lb. (335 KN)
- Two 2.5" (63.5 mm) double-acting cylinders activate the tailgate, 39" (991 mm) stroke, 1 3/4" (44.5 mm) rod
- 3-year warranty on cylinders

Electrical system

- All switches are watertight and all electrical wiring runs through a cable harness
- All circuits properly fused with color-coded and numbered wiring

Paint

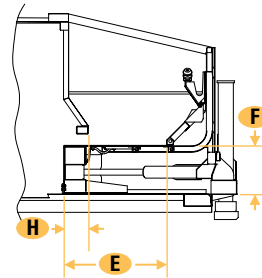
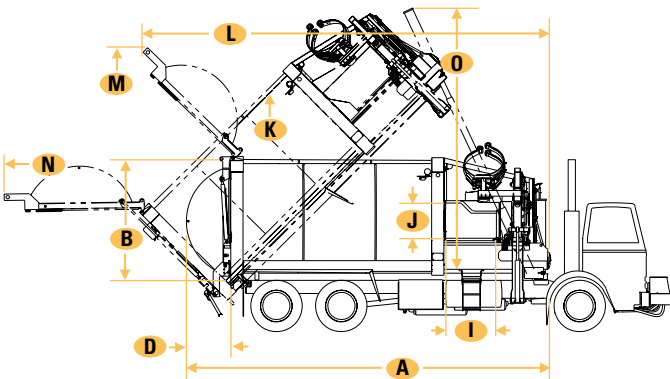
- Body and hopper steel gritblasted
- One coat of prime quality urethane primer (Dupont)
- Fog coat and finishing coat in one color of polyurethane paint
- One body rust proofing treatment

COOL HAND ARM STANDARD FEATURES

- Made of highly resistant steel plates, A-514, yield strength 100,000 psi (690 MPa)
- Proximity switches control the cushioning of the boom's cylinders
- All cylinder rods are chrome plated, 0.0002" (0.005 mm)
- A self-leveling linkage keeps the grab and bin level throughout the full movement of the outer boom
- Activated by a single hydraulic cylinder, the grab clamp unit is made of three gripping clamps to ensure container friendly operation and avoid damage to carts. It can accept almost all types of container from 32 to 110 US gal. (120 to 417 litres) securely.
- Maximum lifting capacity: 1,000 lb. (450 kg) at minimum reach [43" (1090 mm)] and 450 lb. (205 kg) at maximum reach [114" (2900 mm)]
- Horizontal reach: maximum: 114" (2900 mm), minimum: 43" (1090 mm)
- Vertical dump maximum height (without bin) above frame height: 110" (2800 mm)
- Arm weight: 1,350 lb. (612 kg)
- Average cycle time: to pick a bin, dump it and return it to its initial position
Minimum reach: 6 seconds
Maximum reach: 8 seconds

OPTIONS

- "Smart Hand" automatic dumping function
- Grabber-mounted spill shield deflector
- "Grab Pack" automatic cycle of the compactor
- Multi-cycle programming (2 to 6 cycles)
- Co-Mingle version allowing the handling of split-cart and dual-cart collection systems.



DIMENSIONS

| | 3 axles IMPERIAL 31 cu. yd. | | 3 axles IMPERIAL 27 cu. yd. | |
|--|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|
| | | METRIC 24 m ³ | | METRIC 21 m ³ |
| A O.A. length | 295" | 7493 mm | 273" | 6934 mm |
| B O.A. height above frame | 101" | 2565 mm | 101" | 2565 mm |
| C O.A. width* | 96" | 2438 mm | 96" | 2438 mm |
| D Tailgate length | 36" | 914 mm | 8" | 203 mm |
| E Packer stroke | 52" | 1321 mm | 52" | 1321 mm |
| F Packer height | 24" | 610 mm | 24" | 610 mm |
| G Packer width* | 65 1/2" | 1664 mm | 65 1/2" | 1664 mm |
| H Packer penetration inside body | 12" | 305 mm | 12" | 305 mm |
| I Hopper door width | 46" | 1168 mm | 46" | 1168 mm |
| J Hopper door height | 32" | 813 mm | 32" | 813 mm |
| K Dumping angle, body | 45° | | 45° | |
| L O.A. length, tailgate raised, body down | 330" | 8382 mm | 330" | 8382 mm |
| M O.A. height, tailgate raised, body down, above frame | 190" | 4826 mm | 190" | 4826 mm |
| N O.A. length, dumping position | 437" | 11 100 mm | 437" | 11 100 mm |
| O O.A. height, dumping position, above frame | 222" | 5638 mm | 222" | 5638 mm |

* Not shown on drawing

Labrie reserves the right to modify construction and/or design details and furnish equipment when so altered without reference to illustrations and/or specifications shown herein. All specifications subject to change without notice.



Productivity through innovation

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