

D E N N I S



**Robust
cesspool
emptiers in
three sizes**

Cesspool Emptiers

Dennis Cessp

Dennis Cesspool Emptiers are built to the same high standards of craftsmanship that all Dennis municipal vehicles enjoy. But despite this inbuilt extra quality, there are no pretensions about this machine. It's a hardworker, plain and simple, with a robust design calculated to give a long useful working life. Basically, the vehicle is fitted with a single compartment tank which can be filled by suction – with power provided for the air pump through a side Power Take Off on the vehicle gearbox. The famous Dennis patent two-way valve also enables pressure to be created inside the tank, for blow-back cleaning through the hoses or for discharge at a higher level.



Main Tank

The fully galvanised cylindrical main tank is available in three sizes, with working capacities of 1,000, 1500 or 1900 gallons (4546, 6819 and 8637 litres). The tank is of

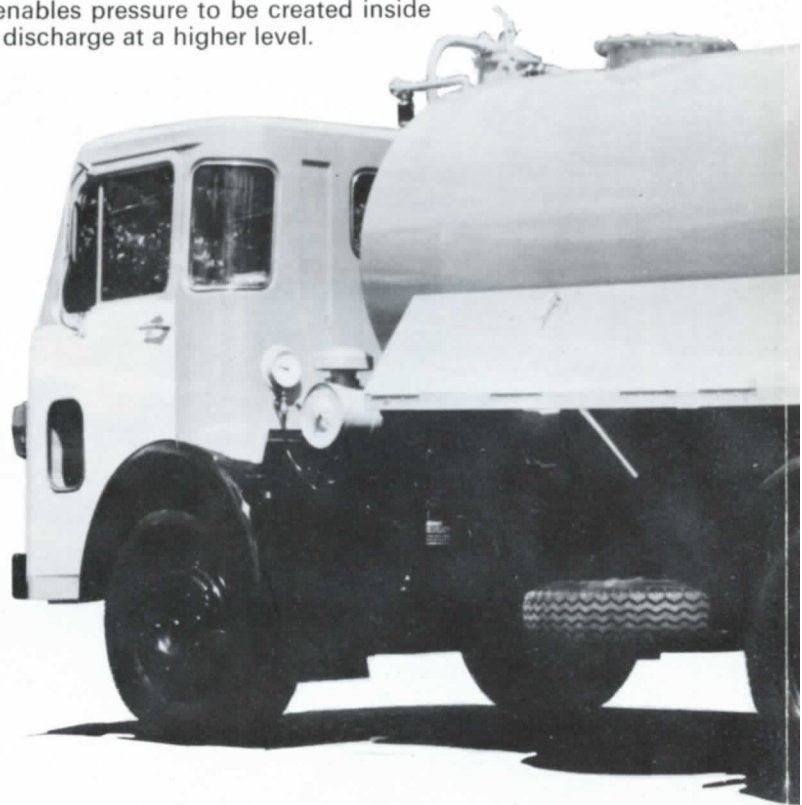
all-welded steel construction and is fitted with a fall towards the rear where inlet and outlet valves are located.

Air Pump

The air pump is of the rotary vane type, automatically lubricated and silent-running. Power is derived from the Power Take Off on the vehicle gearbox, and a separate engine speed control ensures correct drive-speed. The patent Dennis two-way valve allows for use as either an exhauster or compressor.

Safety features

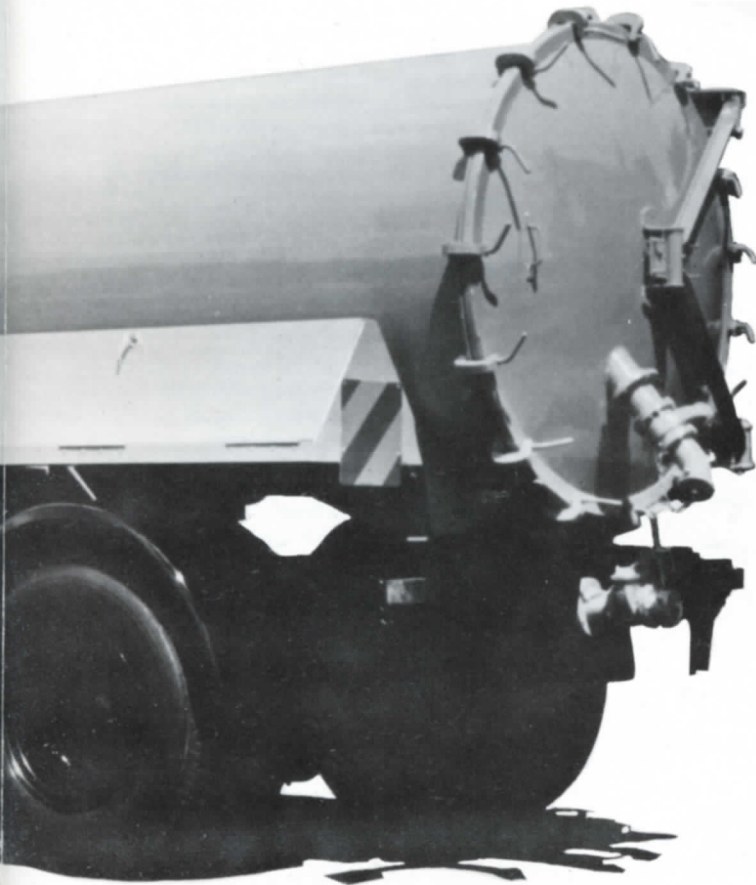
Full safety features are incorporated into the vehicle, including an automatic cut-out valve which prevents liquid from being drawn into the air pump. An air filter and water trap between this valve and the pump itself makes for easy cleaning and emptying. A pressure relief valve is fitted to prevent tank pressures of more than 10 p.s.i. (0.7031 kg per sq. cm.).



TECHNICAL DATA

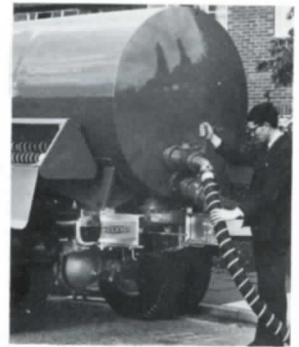
MODEL	1000 GALLON	1500 GALLON	2000 GALLON	
Working capacity	1000 galls/4546 litres	1500 galls/6819 litres	1900 galls/8637 litres	
Wheelbase	10' 4"/3150 mm	12' 0"/3658 mm	12' 4"/3759 mm	
Overall length	20' 0"/6096 mm	21' 10 $\frac{3}{4}$ "/6674 mm	21' 6"/6553 mm	
Overall width	7' 8"/2337 mm	7' 9"/2362 mm	7' 11 $\frac{1}{2}$ "/2426 mm	
Overall height (unladen)	9' 0"/2743 mm	10' 0"/3048 mm	10' 3"/3124 mm	
Weight (unladen, approx)	95 cwt/4826 kg	108 cwt/5487 kg	115 cwt/5842 kg	
Turning circle	43' 0"/13 metres	46' 0"/14 metres	50' 0"/15 metres	
Tyres	8.25 x 20 x 14 ply	9.00 x 20 x 14 ply	10.00 x 20 x 16 ply	
(Plating Weights (Municipal tyre ratings)	Front axle	4.5 tons/4572 kg	5 tons/5080 kg	6 tons/6096 kg
	Rear axle	8.5 tons/8636 kg	10 tons/10160 kg	10 tons/10160 kg
	Gross	13.0 tons/13208 kg	15 tons/15240 kg	16 tons/16256 kg

Pool Emptiers



Dennis valves

Dennis gate valves are specially-designed for long-life reliability. The fixed seatings are detachable from body, and the valve plates are fully adjustable. Any part of the valve – if necessary – can be replaced separately. Sizes are 3, 4 and 6 inch (76.2, 101.6 and 152.4 mm).

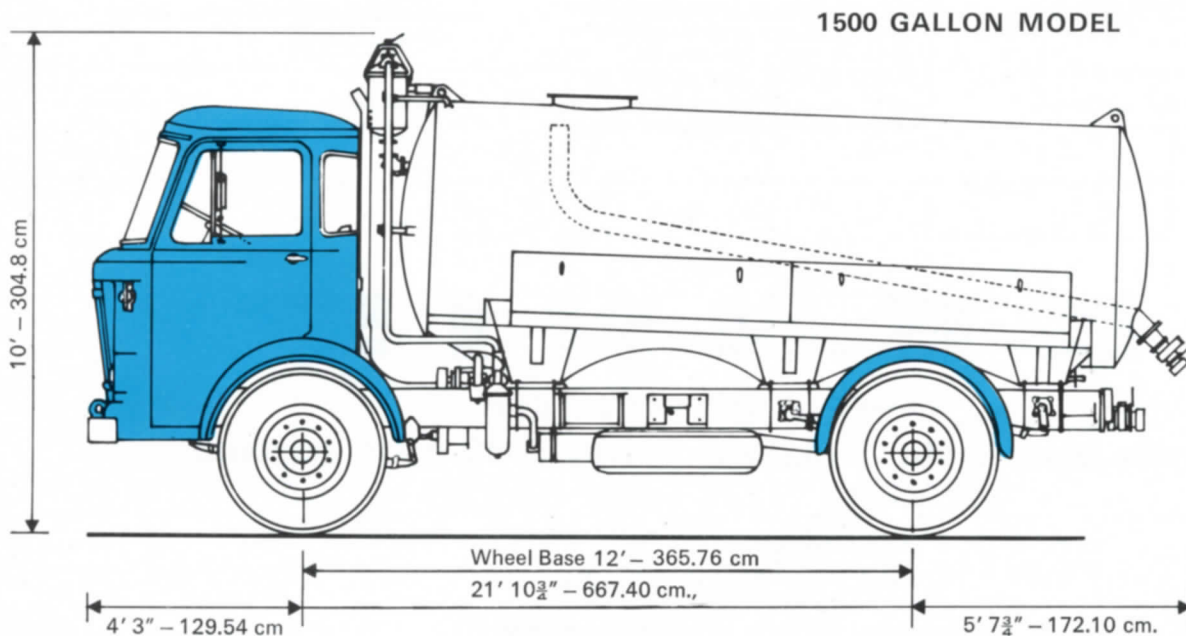


Optional features

Dennis Cesspool emptiers can be supplied with a number of options, including a quick discharge valve for emptying into a sewer via the leather hose, or for sewer flushing. A fully opening rear door can be specified, along with full night-soil equipment.

Dennis quality

The Dennis Cesspool emptier is built on the purpose-built Dennis municipal vehicle chassis, which means that it has been built as a cesspool emptier from the ground up. Long-life, reliability and economy: it's all built-in by Dennis quality craftsmanship.



Specification

ENGINE

1000 gallon, 1500 gallon – Perkins 6.354 diesel engine – swept volume 354 in³ (5801) or Ford 2714E Series diesel engine – swept volume 380 in³ (6417).
2000 – Perkins 6.354 diesel or Perkins 6.354 turbo - charged.

GEARBOX

1000 gallon, 1500 gallon – five speed constant mesh gearbox. Ratios 0.745:1, 1:1, 1.729:1, 3.041:1, 6,000:1 and reverse 5.927:1.
2000 gall – 1:1, 1.48:1, 2.51:1, 4.3:1, 7.67:1 and reverse 7.48:1.

TRANSMISSION

Clutch
14 in. (35.6 cm) single dry plate, total lining area 182.5 sq. in. (1,177 sq. cm). Propeller Shaft.
Two piece, needle roller bearing universal joints, flexibly mounted centre bearing. Vibration damper fitted.

BRAKES

Full air operation using diaphragm type brake chambers coupled to cam operated brakes. Front brakes 15½ in. x 5 in. (39.37 cm x 12.7 cm). Rear brakes 15½ in. x 7 in. (39.37 cm x 17.8 cm). Total brake lining area 725 sq. in. (4,677.5 sq. cm).

SERVICE BRAKE

Footbrake system with diaphragm actuators operating simultaneously on all axles.

SECONDARY

Handbrake, lever operated, providing air assisted braking on rear axle.

PARKING BRAKE

By lock actuator through cam levers on rear axle.

FRAME

Channel section pressed steel sidemembers ½ in. x 2½ in. x 9 in. (0.634 cm x 6.3 cm x 22.9 cm). Crossmembers generally of channel section bolted onto the sidemembers. Reinforced top and bottom flanges.

SUSPENSION

Front: Semi-elliptic leaf springs, 52 in. (132.08 cm) long, 3 in. (7.62 cm) wide, 4.807 in. (12.19 cm) thick, 11 leaves.
Telescopic dampers. Front: (2000 gall) 57 in. (144.78 cm) long, 3.5 in. (8.89 cm) wide, 4.58 in. (11.633 cm) thick, 10 leaves.
Rear: Semi-elliptic leaf springs, 60 in. (152.4 cm) long, 3 in. (7.62 cm) wide, 6.807 in. (17.27 cm) thick, 12 leaves.
Rear: (2000 gall) 44 in. (111.76 cm) long, 3 in. (7.62 cm) wide, 6.312 in. (16.032 cm) thick, 13 leaves.

FRONT AXLE

5½ ton (5590 kilos). I section alloy steel beam. Front shock absorbers fitted as standard.
(2000 gall) 6 ton (6096 kilos).

REAR AXLE

(1000, 1500 Models)
10 ton (22,400 lbs, 10,160 kg). Single speed spiral bevel drive with robust differential gear ratio 6.14:1.
Rear Axle – (2000 model)
Two speed ratios 5.57:1, 7.6:1, electric shift.

WHEELS & TYRES

Steel disc wheels rim size 3B 700 x 20, offset 6 in. (15.24 cm) ten stud fixing ⅞ in. (2.2 cm) diameter studs. Single front, twin rear, with spare. Standard tyre size given in table but oversize tyres can be fitted.

STEERING

Right or left hand control, 20 in. (51 cm) diameter three spoke wheel on recirculatory ball type steering box. Ratio (in centre position) 26.8:1, lock to lock 6½ turns approximately. On 2000 gall model power steering std lock to lock 4¾ turns approximately.

FUEL TANK

30 gall. (136 litres), 18 in. (45.72 cm) diameter cylindrical.

CAB

Constructed of glass fibre reinforced plastic. Curved one piece toughened glass windscreen 6 ft. 8 in. wide x 2 ft. 1 in. deep (203 cm x 63 cm). Twin windscreen wipers (17 in. (43.2 cm) blades), winding drop windows in doors, remote control inner door handles, push button exterior handles and anti-burst locks.

ELECTRICAL

12 volt A.C. negative earth return system. Panel on facia fitted with the following as standard: 4¾ in. (12.06 cm) diameter, 80 m.p.h. (128.74 km) speedometer with total and trip mileage recorders, two air gauges, fuel gauge, 'no charge' warning light, oil pressure warning light, key operated starter switch which covers heat start as well.
On steering column: switches for head, side and tail lamps, head lamp dip switch, horn switch button and direction indicators switch.
Two head lamps mounted on front dash, flashing direction indicators. Battery capacity 110 ampere/hour at 10 hour rate.

STANDARD EQUIPMENT

Front shock absorbers, front bumper with two tow loops, heater and demister, screen washers, radiator muff, tool kit.

OPTIONAL EXTRAS

Power assisted steering (standard on 2,000 gallon model) automatic lubrication, fog lamps, rear shock absorbers, twin sun visors. Rear towing loops.

Dennis Motors reserve the right to amend specifications without notice.

D E N N I S

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