

# Vermeer®

Vacuum/Excavation System

# LP 555/855

## **Power and performance in vacuum excavation.**

The low-profile series of vacuum excavation equipment offers two different tank capacities including a 500 and 800 gal (1892.7 and 3028.3 L) option. Designed for removal of a variety of wet and dry materials, applications include:

- *Storm drain cleanout*
- *Locate underground utilities*
- *Cleanup at treatment plants*
- *Vacuumping out retention ponds*
- *Clean out of lateral line*
- *Excavation of small rocks*
- *Mud removal*
- *Manhole cleanout*
- *Meter box cleaning*
- *Saw mill cleanup*
- *Emergency road spills*
- *Excavation of dry sand*

The low-profile units come equipped with a hydraulic rear door, which opens fully so the operator can completely empty the contents. For operator safety, the door is controlled by push buttons located on the side of the unit.

Standard features on the low-profile vacs include a reverse pressure system, .5 micron filtration and a heavy-duty trailer with torsion axles. The unit is also available with an optional boom or air compressor, and is trailer-mounted for mobility on the jobsite.



# LP555/855

## LP555/855 DT (trailer-mounted)

- 36 hp (26.8 kW) Yanmar water-cooled diesel engine
- 580 cfm vacuum pump capable of 15" (38.1 cm) of mercury
- Reverse pressure to off-load liquids and dislodge debris in hose
- 500/800 gal (1892.7/3028.3 L) debris tank with hydraulic lift dump
- Hydraulically operated full-open rear door
- 33' (10 m) of 3" (7.6 cm) lightweight smooth bore rubber suction hose – (industrial rated); 4" (10.7 cm) hose option available
- Two 3" (7.6 cm) lightweight dielectric suction wands – 4' (1.2 m) & 6' (1.8 m)
- Empty weight of LP555 unit with trailer: 5940 lb (2694.3 kg)
- Empty weight of LP855 unit with trailer: 6190 lb (2807.7 kg)

## LP555/855 SDT (trailer-mounted)

- 49 hp (36.5 kW) Yanmar water-cooled diesel engine
- 1000 cfm vacuum pump capable of 15" (38.1 cm) of mercury
- Reverse pressure to off-load liquids and dislodge debris in hose
- 500/800 gal (1892.7/3028.3 L) debris tank with hydraulic lift dump
- Hydraulically operated full-open rear door
- 33' (10 m) of 3" (7.6 cm) lightweight smooth bore rubber suction hose – (industrial rated); 4" (10.7 cm) hose option available
- Two 3" (7.6 cm) lightweight dielectric suction wands – 4' (1.2 m) & 6' (1.8 m)
- Empty weight of LP555 unit with trailer: 6140 (2785.1 kg)
- Empty weight of LP855 unit with trailer: 6340 lb (2875.8 kg)

## Optional Compressed Air System (powered by main engine)

- 83 hp (61.9 kW) Yanmar diesel engine
- 150 cfm at 170 psi (11.7 bar)
- 50' (15.2 m) of high-pressure air hose
- Retractable hose reel
- High-pressure safety pop-off valve
- 6' (1.8 m) fiberglass air knife
- Available with the high cfm vacuum pump only (1000 cfm)
- Hi/Low psi switch for running pneumatic tools



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## LP Low-Profile Specifications

### General

- Lockable curbside remote controls
- Hydraulic pump and hydraulic cylinders with remote controls to raise tank 60 degrees
- Suction hose storage on rear door of debris tank [33' (10.1 m)]
- 6" (15.2 cm) stainless steel portal shutoff in top of vacuum tank
- 15 gal (56.8 L) fuel tank
- 6" (15.2 cm) amber strobe with two adjustable halogen work lights
- (2) DOT safety cones
- Battery with nationwide warranty
- Two-year limited parts and labor warranty

### Engine Enclosure

- Fully enclosed and insulated to reduce noise and vibration using 2/3 open-cell attenuation material
- Both sides of engine enclosure open on hinges for ease of maintenance and service
- All service points for engine are accessible from curbside
- Silencer for vacuum pump mounted below the enclosure and not to exceed 80 dBA at full performance
- High-pressure water pump and vacuum pump mounted inside engine enclosure

### Filtration

- Bag House (Big Red) – with 100 sq. ft. (30.5 sq. m) filtration media, combined with 60 gal (227.1 L) water trap
- Filtration cylinders are washable and removable
- WET or DRY industrial filters rated at 5:1 air cloth ratio and grain loading of 30-g/acf using 0.5-micron silica dust emissions of .0060 g/acf

### Water

- 3500 psi (241.3 bar) at 4 gpm (15.1 L/min) water pump powered by same engine water pump
- Electric clutch with on/off control and low-water automatic shutdown
- 200 gal (757.1 L) total water capacity [2 poly water tanks 100 gal (378.5 L) each, plumbed to high-pressure pump]
- 50' (15.2 m) of high-pressure hose
- Self-retracting hose reel
- 5' (1.5 m) roto wand and control handle
- 3' (.9 m) variable nozzle wand for cleanup
- 8 gal (30.3 L) semi-automatic antifreeze system
- LP Heavy - optional/upgraded water package - 300 gal (1135.6 L) total water, heavier axles, heavier tires and rims
- LP Lite - optional 9995 lb (4533.7 kg) GVWR (CDL) 100 gal (378.5 L) total water, 400 gal (1514.2 L) debris load

### Control Panel

- Waterproof and lockable
- Integrated into the engine stand (curbside for easy operation)
- Vacuum pressure gauge
- Key switch
- Electronic throttle switch
- Water pump switch
- Lights and DOT strobe controls
- Volt meter
- Hour meter
- Breakers for water pump and electronic throttle
- Oil pressure gauge
- Water temperature gauge
- Fuel gauge

### Tank

- Full-open rear door
- Hydraulically opened rear door with push-button controls
- UHMW polymer tank liner on bottom of debris tank
- 6" (15.2 cm) brass rear discharge valve with dust cap
- Large 6" (15.2 cm) stainless steel portal shutoff (stops vacuum when debris tank is full)
- Twin hydraulic cylinders for dumping

### Trailer

- Dual "DEXTER" torsion axles rated at 6000 lb (2721.6 kg) each on LP555 and 7000 lb (3175.1 kg) on LP855
- GVWR at 12,000 lb (5443.1 kg) on LP555 and 14,000 lb (6350.3 kg) GVWR on LP855
- 10,000 lb (4535.9 kg) jack stand with spring-loaded foot
- I-beam constructed heavy-duty trailer
- Pintle hitch
- Electric brakes on both axles, with safety breakaway
- 4 - LT235/75R16 tires with 8 lug wheels (555); 4 - LT235/85R16 tires with 8 lug wheels (855)
- LP855 Heavy - 19,000 lb (8618.3 kg) GVWR; LP555 Heavy - 14,000 lb (6350.3 kg) GVWR

### Boom (Optional)

- 4" (10.2 cm) pickup hose
- 6-way movement
- Completely self-contained
- Hydraulically powered in/out and up/down
- Tank-mounted boom cradle
- 360 degree movement

### Dimensions

- LP555  
Length: 18.5' (5.6 m), Width: 90" (228.6 cm), Height: 83" (210.8 cm)
- LP855  
Length: 21.5' (6.6 m), Width: 90" (228.6 cm), Height: 83" (210.8 cm)

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