



Cat[®] 816K

Landfill Compactor

Safe and Comfortable

- Improved ingress/egress with a totally redesigned cab with flip up armrest.
- Preferred temperature settings maintained with automatic climate control.
- Operator productivity enhanced with new membrane switch panels, keyed ignition and E-H parking brake switch.
- Improved comfort with low operator sound levels.
- Improved spectator sound levels and optional low sound packages.

Sustainable

- Increased horsepower and lower emissions with the powerful, responsive, fuel-efficient Cat[®] C7.1 engine with ACERT[™] Technology.
- Engine idle shutdown saves fuel and avoids unnecessary idling.
- Two engine options available that meet either U.S. EPA Tier 4 Final/EU Stage IV or Tier 3/Stage IIIA equivalent emissions standards.
- For the Tier 4 Final/Stage IV option, the Cat Clean Emissions Module contains a Diesel Oxidation Catalyst, Diesel Particulate Filter and Cat Regeneration System, utilizing SCR technology.
- Regeneration is completely automatic and does not interrupt the machine's work cycle.

Easy to Service

- Swing-out doors on both sides of the engine compartment provide easy access to important daily service checks.
- Ecology drains for ease of service and prevention of spills.
- Reduce downtime with VIMS[™] system notifications so your operators and technicians can resolve any problems before failure.
- Quick visual inspection and minimize fluid contamination with sight gauges.
- A new ground level service area includes a Master Disconnect Switch with integrated lock-out/tag-out, DEF purge lamp (Tier 4 Final/Stage IV machines only), circuit breakers, emergency fuel shutoff switch and the jump start receptacle.
- Centralized grease points for convenient maintenance.

Built for Production

- Three new wheel and tip configurations are available to meet your particular application:
 - Paddle: High performance and less fuel burn with more traction and less weight.
 - Plus: Traditional design for increased side slope stability.
 - Combination: Both paddle and plus tips provide the best compromise of performance and fuel economy with side slope stability.
- Experience maximum responsiveness and control with Steering and Transmission Integrated Control System (STIC[™]).
- Conserve more fuel with the automatic engine and electrical system shutdown.
- Redesigned frames, improved guarding and increased ground clearance over F2 Series.
- Advanced Productivity Electronic Control System (APECS) improves transmission shifting performance and operator comfort.
- Operators experience less fatigue with throttle lock to maintain engine speed.
- 12 hour fuel tank enables greater productivity throughout the day.

Cat CONNECT Technology

- COMPACT technology, like the factory-installed Cat Compaction Control system, uses the Cat Compaction Algorithm to measure effective compaction value and deliver realtime 3D pass mapping guidance to the cab, indicating where to work and when layers are compacted to optimum density.
- LINK technology (standard) provides access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes through the online VisionLink[®] interface.
- DETECT technology, like the rear vision camera, help keep people and equipment safe by enhancing operator awareness of the work area.

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Engine				
	Tier 4 Final/Stage IV		Tier 3/Stage IIIA Equivalent	
Engine Model	Cat C7.1 ACERT		Cat C7.1 ACERT	
Rated Power (SAE J1349)	185 kW	248 hp	186 kW	249 hp
Rated Power (Net ISO 9249)	185 kW	248 hp	186 kW	249 hp
Gross Power (SAE J1995)	212 kW	284 hp	213 kW	286 hp
Gross Power (ISO 14396)	204 kW	274 hp	205 kW	275 hp
Maximum Net Torque @ 1,400 rpm	1219 N·m	899 lbf·ft	1016 N·m	749 lbf·ft
Maximum Altitude without Derating	3000 m	9,842.52 ft	3000 m	9,842.52 ft

Maximum Operating Weights				
	Tier 4 Final/Stage IV		Tier 3/Stage IIIA Equivalent	
Weight	25 809 kg	56,899 lb	25 541 kg	56,308 lb

Transmission			
Forward – Maximum 1st		6.1 km/h	3.8 mph
Forward – Maximum 2nd		10.9 km/h	6.8 mph
Reverse – Maximum 1st		7.0 km/h	4.3 mph
Reverse – Maximum 2nd		12.5 km/h	7.8 mph

Hydraulic System			
Main Relief Pressure		22 000 kPa	3,190 psi
Cylinder, Double-acting: Lift, Bore and Stroke		120 mm × 915 mm	4.7 in × 36.0 in
Vehicle Articulation		Angle 84°	

Axles		
Front		Planetary – Fixed
Rear		Planetary – Oscillating
Oscillation Angle		±6°

Wheels and Tips		
Outside Diameter	1717 mm	67.6 in
Drum Diameter	1400 mm	55.1 in
Drum Width	1016 mm	40.0 in

Service Refill Capacities		
Cooling System – Tier 4/Stage IV	81 L	21.4 gal
Cooling System – Tier 3/Stage IIIA equivalent	73 L	19.3 gal
Engine Crankcase	20 L	5.3 gal
Transmission	56 L	14.8 gal
Fuel Tank	500 L	132.1 gal
Diesel Exhaust Fluid Tank (Tier 4 Final/Stage IV)	16 L	4.2 gal
Differentials and Final Drives – Front	43 L	11.4 gal
Differentials and Final Drives – Rear	43 L	11.4 gal
Hydraulic Tank Only	75 L	19.8 gal
<ul style="list-style-type: none"> All non-road Tier 4 Final and Stage IV diesel engines are required to use: <ul style="list-style-type: none"> – Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (EPA)/10 ppm (EU) (mg/kg) sulfur or less. Biodiesel blends up to B20 are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD and when the biodiesel feedstock meets ASTM D7467 specifications. – Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required. – Diesel Exhaust Fluid (DEF) that meets all requirements defined in ISO 22241-1. 		

Dimensions		
Height to Top of Beacon	4368 mm	14.3 ft
Height to Top of Exhaust Pipe	3497 mm	11.5 ft
Height to Top of Hood	2720 mm	8.9 ft
Ground Clearance to Bumper	818 mm	2.7 ft
Center Line of Rear Axle to Bumper	1990 mm	6.5 ft
Hitch to Center Line of Front Axle	1675 mm	5.5 ft
Wheelbase	3350 mm	11.0 ft
Overall Length (maximum)	8058 mm	26.4 ft
Ground Clearance	516 mm	1.7 ft
Width over Wheels	3338 mm	131.4 ft
Height to Cab Roof	3878 mm	12.7 ft
Inside Turning Radius (wheels)	2700 mm	8.9 ft
Inside Turning Radius (blade)	2910 mm	9.5 ft
Outside Turning Radius (blade)	6473 mm	21.2 ft
Maximum Depth of Cut	362 mm	1.2 ft
Maximum Lift Above Ground	1140 mm	3.7 ft
Width Over End Bits	3656 mm	12.0 ft

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

AEXQ1785 (08-2016)

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