



A **CLEANER** FUTURE...
ONLY **DIXIE CHOPPER**



GENERAC
PROPANE
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 **Schedule**
Contract GS-06F-00855


U.S. Department of Energy


Your Propane Connection



DIXIE CHOPPER LP3000

The worlds fastest lawn mower now gives you the worlds first *true propane mower. A cleaner future – only at Dixie Chopper.

*Our Generac propane engines are engineered for propane use and are not aftermarket “converted” gasoline engines.

IN THE BEGINNING

- Dixie Chopper was founded in 1980 when Mr. Art Evans built his first zero-turning radius lawn mower in his modest little shop on the family farm in Coatesville, Indiana. That was the beginning of a new revolution in lawn care.
- Mr. Evans and his company have continued to come up with new and innovative ideas to improve on a machine that is already established as a leader in the industry. As environmental concerns became more prevalent, once again Dixie Chopper met the challenge and created the LP3000.

TIME TO CLEAR THE AIR

- The Dixie Chopper LP3000 is the first and only commercial grade zero-turning radius mower that is powered by a factory built Generac propane engine. This is not a gasoline conversion, but an engine designed to be fueled by clean burning propane. With a sealed fuel system and closed non-permeable fuel tanks, there are no issues with evaporative emissions as with standard fueled engines that have carburetors and vented fuel caps.

THE ENGINE

- The LP3000 sports a 990cc Generac engine that produces a blade tip speed of 18,840 feet per minute at 3,750 RPM, while moving the unit along at a ground speed of 15 MPH. Generac has been producing propane fueled engines for the home standby and RV generator industry for almost 30 years. Cleaner burning propane improves engine life as well as the life of the oil.

THE “GAP” SYSTEM

(Gaseous Alternative Power)

- **Reduced Ozone Forming Potential** - The GAP LP system will cut ozone forming potential, (OFP) by greater than 50% when compared to conventional gasoline powered engines due to the difference of the burnt hydrocarbons of the different fuels . This is especially important in State and Federal ozone non-attainment regions where municipalities are required to purchase low emission alternatives when available.
- **No Evaporative Emissions** – Tanks are closed and non-permeable. When the engine is off, the fuel system is sealed off with a solenoid activated valve.

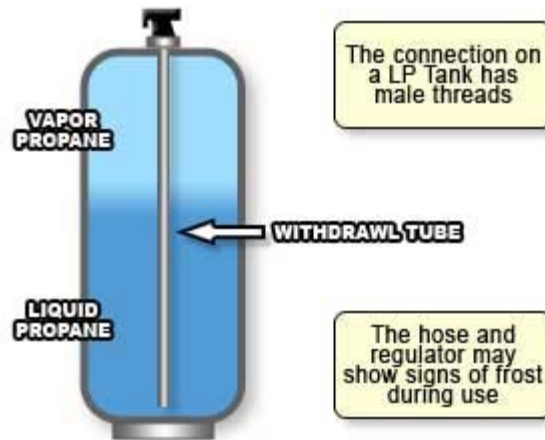
- **Fuel Stability** – One of the biggest repair items on a gas engine is the carburetor. When units are stored over a long period, the light ends of the fuel evaporate leaving “stale” fuel. The residue creates a hard varnish that plugs fuel passages. LP tanks do not have this problem.
- **No Fuel Contamination** – Another problem is introduction of water and dirt into fuel containers. The pressurized and closed system of the LP tank helps prevent contamination concerns.
- **Fuel Spillage** – Anyone that has used a gas powered piece of equipment has overfilled the fuel tank and spilled the fuel over the engine and ground. Another source of evaporative emissions. With LP that is not a concern.

- **Ease of Operation** – The GAP system eliminates the need for a choke. The system is “turn-key” like an EFI system. Consumers start the engines the same as their cars.
- **Oil Life** – When LP is used as a fuel, less burnt hydrocarbons enter the crankcase oil, resulting in extended oil life
- **Fuel Storage** – Whether it’s on board a trailer from job to job, in a greens keeper maintenance area, or Municipal building, gasoline storage is a concern. LP tanks reduce the concern.



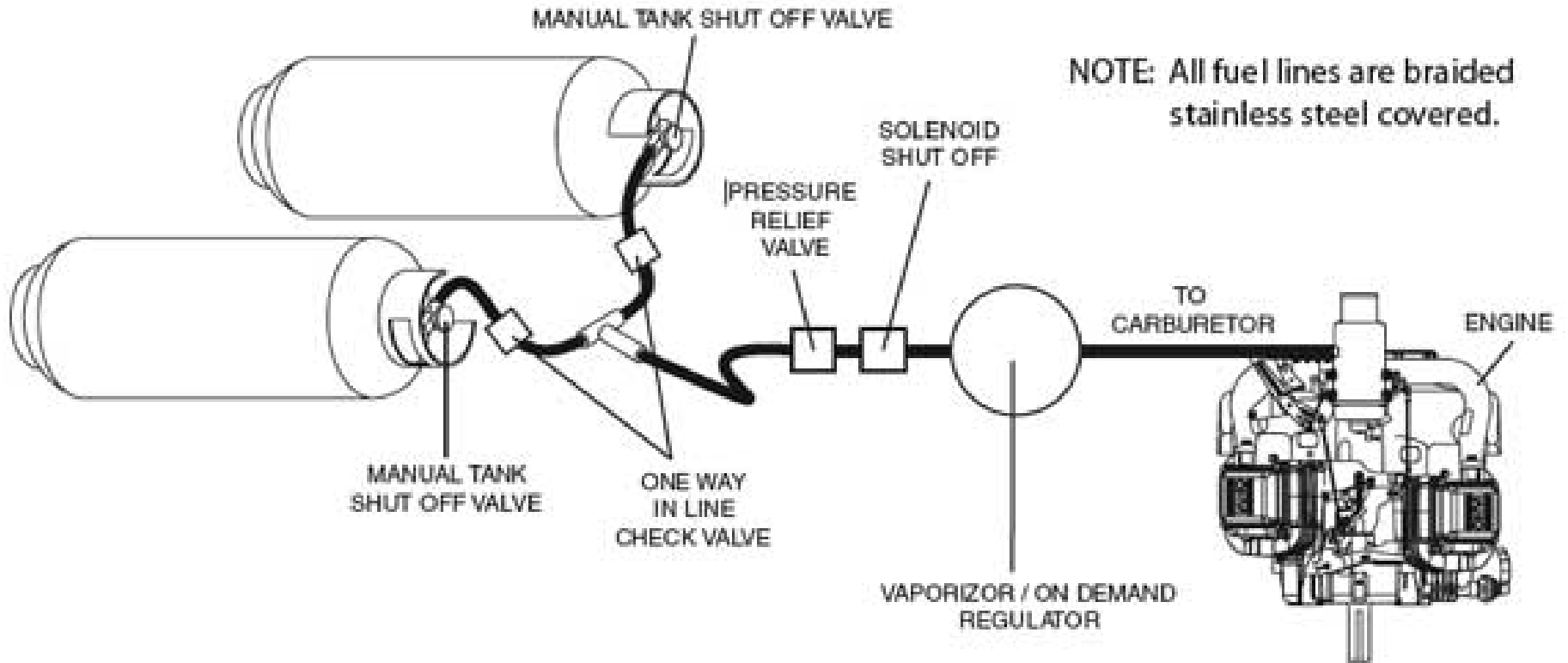
- Fuel is stored in a liquid state in two metal tanks that meet DOT standards. Each tank has a fuel gauge and shutoff valve.
- The threaded fuel line connector has one-way check valves to prevent any back flow from tank to tank.
- All the high pressure fuel lines are braided steel reinforced.
- The 12 volt electric solenoid only opens when the key is turned on. When the key is on, the shut off valve allows the liquid fuel to flow to the regulator
- Before the solenoid shut off valve is a pressure relief valve. This valve prevents any excessive pressure from building in the system during shutdown.
- The liquid fuel vaporizer/on demand regulator converts the liquid fuel to vapor. The vaporizer uses spent cooling to provide heat to aid in the evaporation. The regulator drops the pressure to a level needed by the engine. The on demand portion of this system requires the engines intake vacuum to pull fuel. If the engine is not rotating, the fuel will not flow.
- When there is engine intake vacuum, it draws the fuel through the carburetor. The carburetor does not contain a choke. The throttle shutter operation governs the speed of the engine.
- The LP engine is slightly different from a gas engine. An LP engine contains higher compression pistons and optimum timing to get the best fuel efficiency when using LP as a fuel. Generac engines are built with more durable valve seats and valves, and are designed to withstand the use of dryer LP fuel.

LIQUID WITHDRAWAL



- Propane is a gas stored under pressure inside a tank. When propane is stored under pressure, it turns into liquid. If you could look inside the tank, the propane would look just like water. Liquid withdrawal is the method which takes the liquid from the bottom of the tank by utilizing a withdrawal valve which has a tube attached to it that extends to the bottom of the tank. Because of the pressure in the tank, the liquid propane is forced through the tube whenever there is a demand. When the pressure is reduced in the regulator/evaporator the liquid propane expands, vaporizes, and turns into gas.
- **REMEMBER** – LP Gas means Liquefied Petroleum Gas, not liquid propane.

FUEL SYSTEM DIAGRAM



SPECS AND FEATURES



SPECS	LP3000-60	LP3000-72
	(Propane)	(Propane)
Engine Manufacturer	Generac	Generac
Engine Horsepower	990cc	990cc
Seat (Standard/Armrests/Deluxe)	DA	DA
Ground Speed (mph)†	15	15
Acres per hour *	7.5	9.0
Hydraulic Oil Cooler	Y	Y
By-Pass Filter	Y	Y
High Performance Air Filter	Y	Y
Tachometer	Y	Y
Hour Meter	Y	Y
Engine Guard	Y	Y
Parking Brake	Y	Y
Fuel Capacity (US Gallons)	15	15
Cutting Width	60"	72"
Cutting Height	1-5"	1-5"
Overall Width	64.5"	75.5"
Overall Length	76"	79.5"

† Ground Speed is factory tested with GPS system. Results may vary.

* Acres per hour calculated on 80% operator accuracy and mowing conditions.

△ Please see dealer for details.

DIXIE CHOPPER FEATURES

- TWO-YEAR Bumper-to-Bumper Warranty; Parts & Labor △
- LIFETIME Frame Warranty on materials and workmanship △
- LIFETIME Warranty on Front Caster Bearing Assembly △
- LIFETIME Warranty on Front Forks against Breakage △
- LIFETIME Warranty on Stainless Steel against rust △
- THREE-YEAR Spindle Hub Warranty △
- "OCDC" Operator Controlled Discharge Chute/leaf mulcher
- 1 1/4" Effective Diameter Spindle Shafts with Self-Tightening Spindles
- 3/16" Reinforcing Top Plate (bolted not welded)
- Vented split 3/16 steel, deep groove pulleys for enhanced belt life
- (2) 40-Micron Hydraulic Filters
- 2.5 gallon capacity Hydraulic System
- Engine Guard to protect the engine
- Flip-up Floor Pan for easy belt access
- Up to 2000lbs towing capacity
- Deluxe Seat for increased comfort

Financing Available

financing.dixiechopper.com

WHY THE DIXIE CHOPPER LP 3000?

- **EFFICIENCY** – The LP3000 is capable of cutting up to *9.0 acres per hour. Dixie Chopper factory testing concludes the fuel usage of propane powered mower is the same as with gasoline powered. The cutting time for any given acreage is reduced by 1/3 over our closest competitor. This efficiency means 1/3 less run time translates to 1/3 less emissions produced.
- **LONGIVITY** – With clean burning propane as fuel, engine life and oil life is significantly extended.
- **ECONOMY** – The price of propane is at its lowest (summer months) during the mowing season. Typically, this is the time of year when gasoline peaks.
- **ENVIRONMENT**- Most importantly, the LP3000 is environmentally friendly. With virtually **NO** evaporative emissions and approximately a 50% less ozone forming potential, (OFP), to pollute the air. When major municipalities have ozone alert days and prohibit mowing with standard fuels during certain hours of the day, propane fueled vehicles are exempt from those restrictions, therefore disruption of productivity is eliminated.

*Acres per hour calculated on 80% operator accuracy and mowing conditions

INVEST IN TIMELESS VALUE



INVEST IN A DIXIE CHOPPER

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GSA Schedule
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**Clean
Cities**
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Ferrellgas
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