



LX 990 24 HP ENGINE

Horizontal Shaft, Gasoline, Air Cooled

FEATURES AND BENEFITS

Standard Features	Benefits
Cast Iron Cylinder Liners	Long Engine Life, Rebuildable
Electronic Ignition	Maintenance Free
Pressure Lubrication	Complete Engine Protection
Full Flow Oil Filter	Extended Oil Change Intervals
Piston Cooling Jets	Improved Durability and Oil Control
Horizontally Opposed Cylinders	Smooth Operation
Solenoid Shift Starter	High Torque for Cold Starting and Initial Equipment Loads
Three Ring Piston Design	Superior Oil Control
Replaceable Main and Camshaft Bearings	Rebuildable
Dual Element Air Cleaner	Extended Air Cleaner Life

Optional Features (Partial List)	Benefits
LPG Fuel Kit	Alternate Fuel Capability
High Capacity & Remote Air Cleaners	Extended Service Intervals
PTO Options (Hydraulic Pump Drives, Adapters, Crankshafts, Front PTO Shaft)	Application Flexibility
Stationary Blower Wheel Guard	Aesthetics and Added Protection
Rotating Chaff Screen	Engine Protection
35 or 20 Amp Alternators	High Output for High Demand
2 Speed Governor with Solenoid Control	Application Flexibility
Solenoid Actuated Choke	Remote Capability
Control Panel	Integrated Package
Mufflers and Exhaust Pipes	Application Flexibility
USDA Spark Arrestors	Safety and Lower Noise
Low Oil Pressure Switch	Engine Protection

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ALTERNATOR PERFORMANCE

Amps @ 12.6 VDC

Engine Speed	20 AMP Output (Regulated)	35 Amp Output (Regulated)
3600	19.4	32.0
3000	17.3	30.7
2400	14.5	28.4
1800	11.0	23.6

COOLING SYSTEM

Engine Speed	Air Flow (cfm)
3600	1050
3000	870
2400	690
1800	510

STARTING SYSTEM

Nominal System Voltage: 12

Maximum Total Battery

Cable Resistance: 0.002 Ohm

Battery Recommendation for

Starting (with recommended engine oil and no parasitic loads)

Starter Solenoid:

Minimum Pull-In Volts: 8

Minimum Hold-In Volts: 8

Nominal Pull-In Amps: 33

Nominal Hold-In Amps: 7

Ambient Temp		Minimum Battery Size
°C	°F	CCA
4	40	180
-7	20	220
-18	0	260
-29	-20	300

ANGLE OPERATION

All Directions: 35°

FUEL PUMP

Pulse Pump:

Maximum Lift Capability: 2.5 Ft

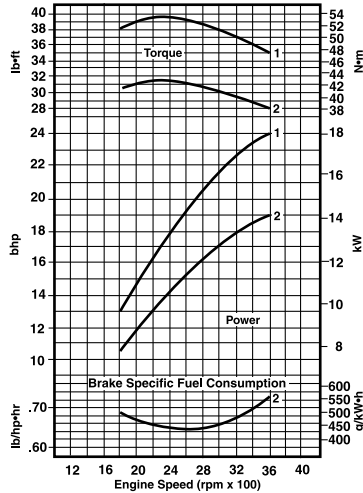
Fuel Inlet Vacuum: 2.6" Hg

Fuel Outlet Pressure: 1.7 PSI

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LX 990

- 1 - Intermittent Rating
- 2 - Continuous Rating



Engine Model	LX 990
Bore in. (mm)	3.563 (90.50)
Stroke in. (mm)	3.000 (76.20)
Displacement in ³ (cm ³)	60 (980)
Power (at 3600 rpm) hp (kW)	24 (17.9)
Peak Torque (at 2400 rpm) ft lbs (N·m)	39.2 (53.1)
Compression Ratio	7.0 to 1
Oil Capacity qt (l) with filter	3 (2.84)
Weight lb (kg)	127 (57.6)

LINAMAR TESTING FOR ENGINE APPLICATION

Linamar industrial engines have been designed for a wide variety of applications including turf maintenance, construction and industrial uses. Specific tests have been conducted to provide excellent startability for ambients ranging from -20°F to 120°F, to provide durability in application duty cycles and to provide product performance requirements for the applications to meet our customers needs.

WARRANTY POLICY

Three year Linamar Limited Warranty. Optional five year warranty available.

AFTER SALE SUPPORT

Genuine Linamar Maintenance Parts and Products

For your ongoing satisfaction and the dependability of your Linamar engine, a complete line of parts, oil and maintenance chemicals specifically designed for Linamar engines are available at **continental engines**

Note: Engine power decreases approximately 3.5% for each 1000 ft (305 m) above 377 ft. and 1% for each 10°F (5.5°C) above 77°F (25°C). For continuous duty at constant load do not exceed 80% of available horsepower. Performance curves obtained and corrected in conformance with SAE J1349.