

SPECIFICATIONS

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| Model Numbers | 33R69 - Standard length (15" transom) 33RL69 - 5" longer (20" transom) 33E69 - Standard length (15" transom) 33EL69 - 5" longer (20" transom) | Propeller drive pin | Part Number 304575, 1/4" x 1-15/32" stainless steel |
| Horsepower (O"B"C"-certified) | 33 hp at 4500 rpm | Propeller | 3 blade, 10-1/2" dia. x 12" pitch |
| Full throttle operating range | 4000 to 5000 rpm | Propeller options | 3 blade, 10-3/8" dia. x 11-1/2" pitch 3 blade, 10-3/8" dia. x 13-1/4" pitch 3 blade, 10-3/8" dia. x 14" pitch |
| Tank test with test wheel | 4400 rpm | Speed control | Knob on steering bracket or remote control. Synchronized throttle and spark |
| Engine type | 2 cyl., 2 cycle, alternate firing | Gear shift control | Forward, neutral, and reverse |
| Bore and stroke | 3-1/16" bore x 2-3/4" stroke | Weight (without fuel tank) | Model 33R69 - 130 lbs. Model 33RL69 - 133-1/2 lbs. Model 33E69 - 140 lbs. Model 33EL69 - 144 lbs. (Fuel tank weight 11 pounds net) |
| Piston displacement | 40.5 cubic inches | Fuel capacity | 6 gallons, suction type tank |
| Piston ring sets (3 per set) | | Starter | 33K69-33RL69 - Ready pull self-winding 33E69-33EL69 - Electric |
| standard | Part Number 378436 | Ignition | Flywheel magneto |
| .020" oversize | Part Number 378437 | Spark plug | AC-M42K, Champion J4J, Auto-Lite A21X - 14mm |
| .040" oversize | Part Number 378438 | Spark plug gap | .030 inch |
| Diameter of ring | 3.0625 in. (standard) | Spark plug torque | 17-1/2 - 20-1/2 foot-pounds |
| Width of ring | .0935 - .0925 in. | Breaker | Gap .020 inch |
| Lbs. compression recommended when compressed | 6 to 9 lbs. | Condenser Capacity | Part Number 580422 .25 - 29 Mfd. |
| Piston less rings | | Part No. 580416 Coil Test Specifications | |
| standard | Part Number 380566 | Old Stevens Tester | |
| .020" oversize | Part Number 380557 | Switch | Index Reading |
| .040" oversize | Part Number 380558 | A | 2.0 - 2.5 |
| Crankshaft size | | New Stevens Tester Model No. M.A.-75 | |
| top journal | 1.2500 - 1.2495 | Switch | Index Adjustment |
| center journal | 1.000 - .9995 | A | 24 |
| bottom journal | 1.000 - .9995 | Merc-O-Tronic | |
| Connecting rod | 1.1828 - 1.1823 in. | Operating Amperage | Primary Resistance Min. Max. Secondary Continuity Min. Max. |
| crank pin | | 1.6 | .45 - .55 30 - 45 |
| Carburetion | Single barrel, float feed, high- and low-speed adjustments, manual choke or electric choke | Graham Tester Model 51 | |
| Float level setting | Flush with rim of casting | Maximum Secondary | Maximum Primary |
| Inlet needle seat | .065 - .062 Use #52 drill as gage | Coil Index | Minimum Coil Test |
| Cooling system | Vari-Volume (combination positive displacement and centrifugal pump) | Gap Index | |
| Propeller gear ratio | 12:21 | 4000 | 1.2 75 33 75 |

*Horsepower established at sea level. Allow 2% reduction per 1000' above sea level.