

## SPECIFICATIONS

|   |  |                            |  |
|---|--|----------------------------|--|
| Model Numbers   | 3302S, 3402R, 3402S<br>(Lightwin, Standard length)<br>3303S, 3403R, 3403S<br>(Lightwin, 5" longer)<br>3312S, 3412R, 3412S (Ducktwin)<br>3432R, 3432S (Yachtwin,<br>Standard length)<br>3433R, 3433S (Yachtwin,<br>5" longer) | Propeller drive pin        | Part Number 203230 1/8" x<br>13/16" stainless steel  |
| *Horsepower<br>(O.B.C.-<br>certified)                   | 3 hp at 4000 rpm   | Propeller                  | 8" diameter x 4-1/2" pitch, 3<br>blade (Models 3302, 3303,<br>3402, 3403, 3432, 3433)<br>6-1/8" diameter x 6-1/4"<br>pitch, 2 blade (Models 3312,<br>3412)                         |
| Full throttle<br>operating<br>range                     | 3500 to 4500 rpm   | Speed control              | Single lever, synchronized<br>throttle and spark   |
| Engine type   | 2 cylinder, 2 cycle, alternate<br>firing   | Weight                     | Models 3302S, 3402R, 3402S,<br>3312S, 3412R, 3412S 34-1/2<br>lbs.<br>Models 3303S, 3403R, 3403S<br>36-1/2 lbs.<br>Models 3432R, 3432S<br>35 lbs.<br>Models 3433R, 3433S<br>37 lbs. |
| Bore and stroke   | 1-9/16" bore x 1-3/8" stroke   | Fuel capacity              | 0.7 gallons, gravity feed tank   |
| Piston displace-<br>ment                                | 5.28 cubic inches  | Starter<br>Ignition        | Eas-a-Matic, self-rewinding<br>Flywheel magneto  |
| Piston ring sets (2 per set)                            |  | Spark plug                 | AC-M42K, Champion J4J, Auto-<br>Lite A21X - 14mm   |
| standard  | Part Number 378412   | Spark plug gap             | .030 inch  |
| .020" oversize  | Part Number 378414   | Spark plug<br>torque       | 20 - 20-1/2 foot-pounds  |
| Diameter of ring  | 1.563 in. (standard)   | Breaker point<br>gap       | .020 inch  |
| Width of ring   | .0935 - .0925 in.  | Condenser<br>capacity      | .18 to .22 Mfd.  |
| Lbs. compression<br>recommended<br>when com-<br>pressed | 2 to 3-1/2 lbs.  | Carburetion                | Single barrel float feed, with<br>low-speed adjustment   |
| Piston less rings                                       |  | Float level<br>setting     | Flush with casting   |
| standard  | Part Number 376991   | Carburetor<br>orifice plug | Hole size .028 - (1964 Models)<br>.030 - (1963 Models)   |
| .020" oversize  | Part Number 277283   | Inlet needle seat          | .065 - .062 Use a #52<br>drill as gage.  |
| Crankshaft size   |  |                            |  |
| top journal   | .6854 - .6849 in.  |                            |  |
| center journal  | .6854 - .6849 in.  |                            |  |
| bottom journal  | .6854 - .6849 in.  |                            |  |
| Connecting rod<br>crank pin                             | .6255 - .6250 in.  |                            |  |
| Cooling system  | Centri-matic (combination<br>positive displacement and<br>centrifugal pump).   |                            |  |
| Propeller gear<br>ratio                                 | 17:28 Lightwin<br>12:25 Yachtwin   |                            |  |

\*Horsepower established at sea level. Allow 2% re-  
duction per 1000' above sea level.