

SPECIFICATIONS

150 HP (106 kW) 175 HP (123.7 kW) 200 HP (141.4 kW) 235 HP (166.1 kW)

POWERHEAD

Engine type	90° V type, 6 cylinder, 2 stroke cycle	90° V type, 6 cylinder, 2 stroke cycle	90° V type, 6 cylinder, 2 stroke cycle	90° V type, 6 cylinder, 2 stroke cycle
Model - 20" (508 mm) transom	E150TRLCS	E175TRLCS	E200TRLCS	E235TRLCS
25" (635 mm) transom	E150TRXCS	E175TRXCS	E200TRXCS	E235TRXCS
Bore and stroke	3.500" x 2.588" (88.90 x 65.74 mm)	3.500" x 2.588" (88.90 x 65.74 mm)	3.500" x 2.588" (88.90 x 65.74 mm)	3.625" x 2.588" (92.07 x 65.74 mm)
Piston displacement	149.4 cu. in. (2448 cm ³)	149.4 cu. in. (2448 cm ³)	149.4 cu. in. (2448 cm ³)	160.3 cu. in. (2627 cm ³)
Horsepower - BIA certified	150 HP @ 5000 rpm	175 HP @ 5000 rpm	200 HP @ 5250 rpm	235 HP @ 5250 rpm
Full throttle operating range	4500 - 5500 rpm	4500 - 5500 rpm	4750 - 5750 rpm	4750 - 5750 rpm
Idle speed	900 rpm in neutral, 650 rpm in gear	900 rpm in neutral, 650 rpm in gear	900 rpm in neutral, 650 rpm in gear	900 rpm in neutral, 650 rpm in gear
Test wheel part no.	389931	387388	387388	387388
Test wheel rpm	4800 rpm	4750 rpm	4800 rpm	5200 rpm
Pistons less rings	Standard, 0.020" oversize 0.030" oversize	Standard, 0.020" oversize 0.030" oversize	Standard, 0.020" oversize 0.030" oversize	Standard, 0.030" oversize
Piston ring sets (2 per set)	Standard 0.020" oversize 0.030" oversize	Standard 0.020" oversize 0.030" oversize	Standard 0.020" oversize 0.030" oversize	Standard 0.030" oversize
Width of ring - upper	0.0895" - 0.0900" (2.273 - 2.286 mm)	0.0895" - 0.0900" (2.273 - 2.286 mm)	0.0895" - 0.0900" (2.273 - 2.286 mm)	0.0895" - 0.0900" (2.273 - 2.286 mm)
lower	0.0615" - 0.0625" (1.562 - 1.588 mm)	0.0615" - 0.0625" (1.562 - 1.588 mm)	0.0615" - 0.0625" (1.562 - 1.588 mm)	0.0615" - 0.0625" (1.562 - 1.588 mm)
Crankshaft size				
Top journal	1.6204" - 1.6199" (41.158 - 41.145 mm)	1.6204" - 1.6199" (41.158 - 41.145 mm)	1.6204" - 1.6199" (41.158 - 41.145 mm)	1.6204" - 1.6199" (41.158 - 41.145 mm)
Center journals	2.1875" - 2.1870" (55.563 - 55.550 mm)	2.1875" - 2.1870" (55.563 - 55.550 mm)	2.1875" - 2.1870" (55.563 - 55.550 mm)	2.1875" - 2.1870" (55.563 - 55.550 mm)
Bottom journal	1.3784" - 1.3779" (35.011 - 34.999 mm)	1.3784" - 1.3779" (35.011 - 34.999 mm)	1.3784" - 1.3779" (35.011 - 34.999 mm)	1.3784" - 1.3779" (35.011 - 34.999 mm)
Connecting rod crank pin	1.3762" - 1.3757" (34.955 - 34.943 mm)	1.3762" - 1.3757" (34.955 - 34.943 mm)	1.3762" - 1.3757" (34.955 - 34.943 mm)	1.3762" - 1.3757" (34.955 - 34.943 mm)

WATERCRAFTMANUALS.COM

FUEL SYSTEM

Carburetion	3 carburetors - Float feed with fixed high and low speed jets, Manual lever and remote control choke			
Float level setting	Between notches on gauge no. 324891	Between notches on gauge no. 324891	Between notches on gauge no. 324891	Between notches on gauge no. 324891
Carburetor high speed orifice plug	Part no. 322221 Hole size 0.049" (1.24 mm)	Part no. 321449 Hole size 0.060" (1.52 mm)	Part no. 317330 Hole size 0.059 (1.50 mm)	Part no. 320661 Hole size 0.061" (1.55 mm)
Carburetor intermediate orifice plug	Part no. 317474 Hole size 0.027" (0.69 mm)	Part no. 318823 Hole size 0.031" (0.79 mm)	Part no. 320015 Hole size 0.033" (0.84 mm)	Part no. 318823 Hole size 0.031" (0.79 mm)
Idle air bleed	Part no. 320016 Hole size 0.032" (0.81 mm)	Part no. 320015 Hole size 0.033" (0.84 mm)	Part no. 320016 Hole size 0.032" (0.81 mm)	Part no. 317473 Hole size 0.030" (0.76 mm)
Pull-over air bleed			Part no. 324005 Hole size 0.020" (0.51 mm)	Part no. 324005 Hole size 0.020" (0.51 mm)
Inlet needle seat	0.0745" - 0.0715" (1.892 - 1.816 mm) Use No. 50 drill as gage	0.0745" - 0.0715" (1.892 - 1.816 mm) Use No. 50 drill as gage	0.0745" - 0.0715" (1.892 - 1.816 mm) Use No. 50 drill as gage	0.0745" - 0.0715" (1.892 - 1.816 mm) Use No. 50 drill as gage
Fuel tank capacity	6 gallons (22.7 litres)	6 gallons (22.7 litres)	6 gallons (22.7 litres)	6 gallons (22.7 litres)

LOWER UNIT

Gearcase lubricant capacity	32 oz. (950 mL)	32 oz. (950 mL)	32 oz. (950 mL)	32 oz. (950 mL)
Propeller gear ratio	14:26	14:26	14:26	14:26
Propeller supplied with motor	3 blade 14-1/2" dia x 19" pitch	3 blade 14-1/2" dia x 19" pitch	3 blade 14-1/4" dia x 21" pitch	3 blade 14-1/4" dia x 21" pitch

	150 HP	175 HP	200 HP	235 HP
Optional propellers				
3 blade aluminum	15-1/2" dia x 13" pitch 15-1/2" dia x 15" pitch 15" dia x 17" pitch 14-1/4" dia x 21" pitch 14-1/4" dia x 23" pitch	15-1/2" dia x 13" pitch 15-1/2" dia x 15" pitch 15" dia x 17" pitch 14-1/4" dia x 21" pitch 14-1/4" dia x 23" pitch	15-1/2" dia x 13" pitch 15-1/2" dia x 15" pitch 15" dia x 17" pitch 14-1/2" dia x 19" pitch 14-1/4" dia x 23" pitch	15-1/2" dia x 13" pitch 15-1/2" dia x 15" pitch 15" dia x 17" pitch 14-1/2" dia x 19" pitch 14-1/4" dia x 23" pitch
3 blade SST	15" dia x 17" pitch 14-1/2" dia x 19" pitch 14-1/4" dia x 21" pitch 14-1/4" dia x 23" pitch	15" dia x 17" pitch 14-1/2" dia x 19" pitch 14-1/4" dia x 21" pitch 14-1/4" dia x 23" pitch	15" dia x 17" pitch 14-1/2" dia x 19" pitch 14-1/4" dia x 21" pitch 14-1/4" dia x 23" pitch	15" dia x 17" pitch 14-1/2" dia x 19" pitch 14-1/4" dia x 21" pitch 14-1/4" dia x 23" pitch
3 blade SSTR hi performance	14" dia x 25" pitch 14-1/2" dia x 24" pitch 14-1/2" dia x 26" pitch 14-1/2" dia x 28" pitch	14" dia x 25" pitch 14-1/2" dia x 24" pitch 14-1/2" dia x 26" pitch 14-1/2" dia x 28" pitch	14" dia x 25" pitch 14-1/2" dia x 24" pitch 14-1/2" dia x 26" pitch 14-1/2" dia x 28" pitch	14" dia x 25" pitch 14-1/2" dia x 24" pitch 14-1/2" dia x 26" pitch 14-1/2" dia x 28" pitch
Propeller nut size	1-1/4"	1-1/4"	1-1/4"	1-1/4"

ELECTRICAL SYSTEM

Generator system	Flywheel alternator with regulator	Flywheel alternator with regulator	Flywheel alternator with regulator	Flywheel alternator with regulator
Starter	Electric and emergency rope	Electric and emergency rope	Electric and emergency rope	Electric and emergency rope
Starter amp draw when cranking	200 amps max.	200 amps max.	200 amps max.	200 amps max.
Starter rpm	200 rpm for ignition	200 rpm for ignition	200 rpm for ignition	200 rpm for ignition
Fuses	Littlefuse 1 A.G. - 20 amp or Buss A.G. 20 amp (located on port side of powerhead) Littlefuse 1 A.G.-30 or Buss A.G.A.-30 (located in trim & tilt junction box)	Littlefuse 1 A.G. - 20 amp or Buss A.G. 20 amp (located on port side of powerhead) Littlefuse 1 A.G.-30 or Buss A.G.A.-30 (located in trim & tilt junction box)	Littlefuse 1 A.G. - 20 amp or Buss A.G. 20 amp (located on port side of powerhead) Littlefuse 1 A.G.-30 or Buss A.G.A.-30 (located in trim & tilt junction box)	Littlefuse 1 A.G. - 20 amp or Buss A.G. 20 amp (located on port side of powerhead) Littlefuse 1 A.G.-30 or Buss A.G.A.-30 (located in trim & tilt junction box)

MISCELLANEOUS

Speed control	Remote control - synchronized throttle and spark	Remote control - synchronized throttle and spark	Remote control - synchronized throttle and spark	Remote control - synchronized throttle and spark
Gear shift control	Forward, neutral, reverse - remote control	Forward, neutral, reverse - remote control	Forward, neutral, reverse - remote control	Forward, neutral, reverse - remote control
Cooling system	Pressure and thermostatically controlled recirculating system	Pressure and thermostatically controlled recirculating system	Pressure and thermostatically controlled recirculating system	Pressure and thermostatically controlled recirculating system
Weight (without fuel tank) -				
20" transom	381 lb (172.8 kg)	381 lb (172.8 kg)	381 lb (172.8 kg)	396 lb (179.6 kg)
25" transom	386 lb (175.1 kg)	386 lb (175.1 kg)	386 lb (175.1 kg)	401 lb (181.9 kg)
Fuel tank net weight	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)

IGNITION SYSTEM

Ignition	Magneto breakerless C.D.	Magneto breakerless C.D.	Magneto breakerless C.D.	Magneto breakerless C.D.
Timing	28° @ 4300-4600 rpm in gear (24° during break-in)	28° @ 4300-4600 rpm in gear (24° during break-in)	26° @ 4300-4600 rpm in gear (24° during break-in)	24° @ 4300-4600 rpm in gear
Spark plug	Champion UL-77V	Champion UL-77V	Champion UL-77V	Champion UL-77V
Spark plug torque	17-1/2 - 20-1/2 foot-pounds (24-27 N-m)	17-1/2 - 20-1/2 foot-pounds (24-27 N-m)	17-1/2 - 20-1/2 foot-pounds (24-27 N-m)	17-1/2 - 20-1/2 foot-pounds (24-27 N-m)
Ignition coils	Part no. 581998	Part no. 581998	Part no. 581998	Part no. 581998

IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75	Primary Resistance	0.1 Ohm or less
Reverse Polarity (Switch Setting CD)	Secondary Continuity	5 approx.
Stevens Tester Model M.A.-75 or M.A.-80	Graham Tester Model 51	
Switch	Maximum Secondary	1,000 ohms
Index Adjustment	Maximum Primary	0.5 ohm
Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980	Coil Index	50
Operating Amperage Min. - Max.	Coil Test Minimum AMPLIFIED	17 (With secondary circuit "open") Hi tension lead disconnected
	Gap Index	50 (Coil must fire spark gap on tester at this setting)

IGNITION COIL OHMMETER TEST

Primary Low Ohms	Secondary High Ohms
0.1 ± 0.05	275 ± 50