



GENERAL SPECIFICATIONS

Item	Unit	9.9	15
DIMENSION:			
Over-all Length	mm (in)	873 (34.4)	
Over-all Width	mm (in)	332 (13.1)	
Over-all Height	mm (in)	1040 (40.9)	
	L	1167 (45.9)	
	SUL	1309 (51.5)	
WEIGHT:			
Weight (Al.)	kg (lb)	36 (79.4)	
	L	37.5 (82.7)	
	SUL	39 (86.0)	
PERFORMANCE:			
Full Throttle Operating Range	r/min	4500~5500	
Output (ISO)	kW (hp)/ at r/min	7.4 (9.9) / 5000	11.2 (15) / 5000
Maximum Fuel Consumption	L (US gal , Imp gal)/h at r/min	5.1 (1.35,1.12) at 5500	7.3 (1.93,1.61) at 5500
ENGINE:			
Type		2 stroke - L	
Cylinders		2	
Total Displacement	cm ³ (cu. in)	246 (15.01)	
Bore X Stroke	mm (in)	56.0 x 50.0 (2.20 x 1.97)	
Compression Ratio		6.80	
Carburetor Quantity		1	
Intake System		Reed Valve	
Induction System		Loop Charge	
Starting System		MH Manual	EMH (EH), EMHR, EMR (ER) Manual & Electric
Control system		MH, EMH (EH) Tiller control	EMHR Tiller & Remote control
			EMR (ER) Remote control
Ignition System		CDI	
Alternator Output		MH 12 - 80W	EMH (EH), EMHR 12 - 6A
Enrichment System		Choke Valve	
Advance Type		Mecanical	
Spark Plug	(NGK)	B7HS-10 BR7HS-10	
Exhaust System		Through Prop Boss	
Cooling System		Water	
Lubrication System		Pre-Mixed Fuel & Oil	
FUEL AND OIL:			
Fuel Type		Reguler Gasoline	
Engine Oil Type / Grade		2 stroke outboard motor oil / TC-W3	
Gear Oil Type		Hypoid Gear Oil-SAE#90	
Gear Oil Quantity	cm ³ (US oz, Imp oz)	250 (8.45,8.80)	
Mixing Ratio		100:1(JPN/GEN 50:1)	

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BRACKET:			
Tilt Angle	degrees		8,12,16,20
Tilt-up Angle	degrees		67
Shallow Water Crushing Angle	degrees		30,36
Steering Angle	degrees (left+right)		45+40
DRIVE UNIT:			
Gear Shift Position			F-N-R
Gear Ratio			2.08 (27/13)
Gear Type			Spiral Bevel Gear
Clutch Type			Dog clutch
Propeller Direction			Clockwise
Propeller Drive System			Spline
Propeller Series Mark			J
ELECTRICAL:		MH	EMH (EH), EMHR, EMR (ER)
Battery Capacity	Ah (kC)	-	40 (144)
Cold Cranking	Amps	-	210