



**GENERAL SPECIFICATIONS**

Item	Unit	Model		
		T9.9MH/F9.9AM	T9.9EH/F9.9AEM	T9.9ER/F9.9AE
Overall length	mm (in)	993 (39.1)		575 (22.6)
Overall width	mm (in)	430 (16.9)		325 (12.8)
Overall height	mm (in)	—		1051 (41.4)
	(L)	1178 (46.4)		
	(UL)	1254 (49.4)		
Boat transom height	mm (in)	—		381 (15.0)
	(L)	508 (20.0)		
	(UL)	635 (25.0)		
Weight (without propeller)	kg (lb)	—		44.5 (98)
	(L)	43.5 (96)	45.0 (99)	45.5 (100)
	(UL)	44.0 (97)	45.5 (100)	46.0 (101)
Maximum output	kW (hp)/rpm	7.4 (9.9)/4500		
Speed range at full-throttle	rpm	4000~5000		
Speed range at idling	rpm	1150 ± 50		
Speed range at trolling	rpm	1000 ± 50		
Maximum fuel consumption	ℓ/h (US/Imp gal)	3.3 (0.87/0.73)		
Engine type		4 stroke OHC *4		
Number of cylinders		2		
Total displacement	cm <sup>3</sup> (cu. in)	232 (14.16)		
Bore and Stroke	mm × mm (in × in)	59.0 × 42.4 (2.32 × 1.67)		
Compression ratio		9.3 : 1		
Spark plug	NGK number	CR6HS		
Number of carburetor		1		
Carburetor starting system		Prime start		
Manifold arrangement		Cross flow		
Exhaust system		Propeller boss		
Lubrication system		Wet sump		
Ignition system		C.D.I.		
Starting system		Manual starter	Electric starter	
Fuel rating	P.O.N. *1	86		
Engine oil type *2	SAE API	10W-30, 10W-40 SE, SF, SE-SF, SE-SF-CC, SG-CD		
Engine oil pan capacity	ℓ (US/Imp qt)	1.0 (1.06/0.88)		
Gear oil type		Hypoid gear oil		
	SAE	90 *3		
Gear oil capacity	cm <sup>3</sup> (US/Imp oz)	320 (10.82/11.26)		
Tilt angle at 12° boat transom	Degree	8, 12, 16, 20		
Tilt-up angle at 12° boat transom	Degree	70		
Shallow water angle	Degree	—		
Steering angle (left + right)	Degree	37 + 37		
Gear shift position		F-N-R *5		
Gear ratio		13 : 38 (2.92)		
Reduction system		Spiral bevel gear		
Propeller direction (Rear view)		Clock wise		
Propeller drive system		Spline		

\*1: Pump Octane Number; (Research octane + Motor octane)/2

\*2: YAMALUBE 4 is recommended

\*3: GEAR CASE LUBE is recommended in U.S.A.

\*4: Over head camshaft

\*5: Forward-Neutral-Reverse



Item	Unit	Model		
		F9.9MH/F9.9BM	F9.9BEM	F9.9BE
Overall length	mm (in)	863 (34.0)		575 (22.6)
Overall width	mm (in)	393 (15.5)		325 (12.8)
Overall height	(S) mm (in)	1004 (39.5)		
	(L) mm (in)	1131 (44.5)		
Boat transom height	(UL) mm (in)	—		
	(S) mm (in)	381 (15.0)		
	(L) mm (in)	508 (20.0)		
	(UL) mm (in)	—		
Weight (without propeller)	(S) kg (lb)	41.5 (91)	43.0 (95)	43.5 (96)
	(L) kg (lb)	42.5 (94)	44.0 (97)	44.5 (98)
	(UL) kg (lb)	—		
Maximum output	kW (hp)/rpm	7.4 (9.9)/5000		
Speed range at full-throttle	rpm	4500~5500		
Speed range at idling	rpm	950 ± 50		
Speed range at trolling	rpm	850 ± 50		
Maximum fuel consumption	ℓ/h (US/Imp gal)	3.8 (1.00/0.84)		
Engine type		4 stroke OHC *4		
Number of cylinders		2		
Total displacement	cm <sup>3</sup> (cu. in)	232 (14.16)		
Bore and Stroke	mm × mm (in × in)	59.0 × 42.4 (2.32 × 1.67)		
Compression ratio		9.3 : 1		
Spark plug	NGK number	CR6HS		
Number of carburetor		1		
Carburetor starting system		Prime start		
Manifold arrangement		Cross flow		
Exhaust system		Propeller boss		
Lubrication system		Wet sump		
Ignition system		C.D.I.		
Starting system		Manual starter	Electric starter	
Fuel rating	P.O.N. *1	86		
Engine oil type *2	SAE API	10W-30, 10W-40 SE, SF, SE-SF, SE-SF-CC, SG-CD		
Engine oil pan capacity	ℓ (US/Imp qt)	1.0 (1.06/0.88)		
Gear oil type		Hypoid gear oil		
	SAE	90 *3		
Gear oil capacity	cm <sup>3</sup> (US/Imp oz)	185 (6.25/6.51)		
Tilt angle at 12° boat transom	Degree	8, 12, 16, 20		
Tilt-up angle at 12° boat transom	Degree	70		
Shallow water angle	Degree	Tilt angle + 20	—	
Steering angle (left + right)	Degree	37 + 37		
Gear shift position		F-N-R *5		
Gear ratio		13 : 27 (2.08)		
Reduction system		Spiral bevel gear		
Propeller direction (Rear view)		Clock wise		
Propeller drive system		Spline		

\*1: Pump Octane Number; (Research octane + Motor octane)/2

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\*4: Over head camshaft

\*5: Forward-Neutral-Reverse



**PROPELLER SELECTION**

**T9.9/F9.9A**

Material (Propeller identification mark) *Remarks	Aluminium (R) *Dual thrust	Plastic (R)
Available propeller (Number of blades × Diameter × pitch)	3 × 11-3/4" × 9-1/4"	3 × 11-3/4" × 9-1/4" 3 × 11-3/4" × 11" 3 × 11-3/4" × 12-1/4"

**F9.9/F9.9B**

Material (Propeller identification mark) *Remarks	Aluminium (J)	Aluminium (J) *Dual thrust
Available propeller (Number of blades × Diameter × pitch)	3 × 9-1/4" × 8" 3 × 9-1/4" × 9" 3 × 9-1/4" × 9-3/4" 3 × 9-1/4" × 10-1/2" 3 × 9-1/4" × 12" 3 × 9-1/2" × 6-1/2"	3 × 9-3/4" × 6-1/2" 3 × 9-3/4" × 8"