



GENERAL SPECIFICATIONS

Item	Unit	Model		
		F8BM	F8BEM	F8BE
Overall length	mm (in)	993 (39.1)		575 (22.6)
Overall width	mm (in)	430 (16.9)		325 (12.8)
Overall height	(S) mm (in)	1,004 (39.5)		
	(L) mm (in)	1,131 (44.5)		
	(UL) mm (in)	—		
Boat transom height	(S) mm (in)	381 (15.0)		
	(L) mm (in)	508 (20.0)		
	(UL) mm (in)	—		
Weight (without propeller)	(S) kg (lb)	41.5	43.0	43.5
	(L) kg (lb)	42.5	44.0	44.5
	(UL) kg (lb)	—		
Maximum output	kW (hp)/rpm	5.9 (8)/5,000		
Speed range at full-throttle	rpm	4,500 ~ 5,500		
Speed range at idling	rpm	950 ± 50		
Speed range at trolling	rpm	850 ± 50		
Maximum fuel consumption	ℓ /h (US/Imp gal)	3.3		
Engine type		4 stroke OHC *1		
Number of cylinders		2		
Total displacement	cm ³ (cu. in)	232 (14.16)		
Bore and stroke	mm × mm	59.0 × 42.4		
	(in × in)	(2.32 × 1.67)		
Compression ratio		9.3 : 1		
Spark plug	NGK number	CR5HS		
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.*2	86		
Engine oil type *3	SAE	10W-30, 10W-40		
	API	SE, SF, SE-SF, SE-SF-CC		
Engine oil pan capacity	ℓ (US/Imp qt)	1.0 (1.06/0.88)		
Gear oil type		Hypoid gear oil		
Gear oil capacity	SAE	90 *4		
	cm ³ (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: Over head camshaft

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

*3: YAMALUBE 4 is recommended

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

*5: Forward-Neutral-Reverse



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	(S) mm (in)	—		1051 (41.4)
	(L) mm (in)	1178 (46.4)		
	(UL) mm (in)	1254 (49.4)		
Boat transom height	(S) mm (in)	—		381 (15.0)
	(L) mm (in)	508 (20.0)		
	(UL) mm (in)	635 (25.0)		
Weight (without propeller)	(S) kg (lb)	—		44.5 (98)
	(L) kg (lb)	43.5 (96)	45.0 (99)	45.5 (100)
	(UL) kg (lb)	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 *1		
Number of cylinders		2		
Total displacement	cm ³ (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. *2	86		
Engine oil type *3	SAE API	10W-30, 10W-40 SE, SF, SE-SF, SE-SF-CC		
Engine oil pan capacity	ℓ (US/Imp qt)	1.0 (1.06/0.88)		
Gear oil type	SAE	Hypoid gear oil 90 *4		
Gear oil capacity	cm ³ (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: Over head camshaft

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

*3: YAMALUBE 4 is recommended

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

*5: Forward-Neutral-Reverse



Item	Unit	Model				
		F9.9MH/F9.9BM		F9.9BEM		F9.9BE
Overall length	mm (in)	863 (34.0) *1	993 (39.1) *2	863 (34.0) *1	993 (39.1) *2	575 (22.6)
Overall width	mm (in)	392 (15.4) *1	430 (16.9) *2	392 (15.4) *1	430 (16.9) *2	325 (12.8)
Overall height	(S) mm (in)	1004 (39.5)				
	(L) mm (in)	1131 (44.5)				
	(UL) mm (in)	—				
Boat transom height	(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 *3				
Number of cylinders		2				
Total displacement	cm ³ (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. *4	86				
Engine oil type *5	SAE API	10W-30, 10W-40 SE, SF, SE-SF, SE-SF-CC				
Engine oil pan capacity	ℓ (US/Imp qt)	1.0 (1.06/0.88)				
Gear oil type		Hypoid gear oil				
Gear oil capacity	SAE cm ³ (US/Imp oz)	90 *6 185 (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 *7				
Gear ratio		13 : 27 (2.08)				
Reduction system		Spiral bevel gear				
Propeller direction (Rear view)		Clock wise				
Propeller drive system		Spline				

*1: Except for Europe and Canada

*2: For Europe and Canada

*3: Over head camshaft

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

*5: YAMALUBE 4 is recommended

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

*7: 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"

F8B, 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"