

**ENGINE**

Model	BF8D, BF8B, BFP8D, BFP8B	BF9.9D, BF10D, BF10B, BFP9.9D, BFP10D, BFP10B
Type	Water cooled 4-stroke, overhead valve, vertical twin	
Displacement	222 cm <sup>3</sup> (13.5 cu. in)	
Bore x stroke	58 x 42 mm (2.3 x 1.7 in)	
Rated horsepower	5.9 kW (8.0 PS) at 4,500 – 5,500 min <sup>-1</sup> (rpm)	*1: 7.3 kW (9.9 PS) at 5,000 – 6,000 min <sup>-1</sup> (rpm) *2: 7.4 kW (10 PS) at 5,000 – 6,000 min <sup>-1</sup> (rpm)
Maximum torque	12.5 N·m (1.27 kgf·m, 9.18 lbf·ft) at 4,000 min <sup>-1</sup> (rpm)	13.1 N·m (1.34 kgf·m, 9.67 lbf·ft) at 4,500 min <sup>-1</sup> (rpm)
Compression ratio	9.0 : 1	
Fuel consumption	377 g (13.3 oz.)/kWh	394 g (13.9 oz.)/kWh
Cooling system	Forced water circulation by impeller pump with thermostat	
Ignition system	CDI	
Ignition timing	0° B.T.D.C. at 1,000 min <sup>-1</sup> (rpm)	
Spark plug	CR5EH-9 (NGK), U16FER9 (DENSO)	
Carburetor	Horizontal butterfly valve type single carburetor	
Lubricating system	Forced lubrication by trochoid pump	
Oil capacity	1.0 ℓ (1.06 US qt, 0.88 Imp qt) at oil change 1.3 ℓ (1.37 US qt, 1.14 Imp qt) with oil filter replacement	
Recommended oil	SAE 10W-30, API Service classification SG/SH/SJ	
Starting system	Electric starter and recoil starter	
Stopping system	Ignition primary circuit ground	
Fuel used	Automotive unleaded gasoline (minimum 86 pump octane)	
Fuel tank capacity	Steel tank: 13 ℓ (3.4 US gal, 2.9 Imp gal) Plastic tank: 12 ℓ (3.2 US gal, 2.6 Imp gal)	
Fuel pump	Mechanical plunger type	
Exhaust system	Under water type	

\*1: BF9.9D and BFP9.9D only

\*2: BF10D, BF10B, BFP10D and BFP10B only

**LOWER UNIT**

Model	BF8D, BF8B, BF9.9D, BF10D, BF10B	BFP8D, BFP8B, BFP9.9D, BFP10D, BFP10B	
Clutch	Dog clutch (Forward-neutral-reverse)		
Gear ratio	0.43 (12/28)		
Reduction type	Spiral bevel gear		
Gear case oil capacity	0.285 ℓ (0.27 US qt, 0.23 Imp qt)		
Propeller	Number of blades	4	4
	Diameter	235 mm (9.3 in)	254 mm (10 in)
	Pitch	S type: 229 mm (9.0 in) L, XL type: 203 mm (8.0 in)	165 mm (6.5 in)
	Rotating direction	Clockwise (viewed from rear)	