

# 1. Engine Cooling System

## A: SPECIFICATIONS

### 1. 2200 cc MODEL

Cooling system		Electric fan + Forced engine coolant circulation system	
Total engine coolant capacity		ℓ (US qt, Imp qt)	
		Approx. 6.1 (6.4, 5.4)	
Engine coolant pump	Type	Centrifugal impeller type	
	Discharge performance I	Discharge	20 ℓ (5.3 US gal, 4.4 Imp gal)/min.
		Pump speed—total engine coolant head	760 rpm — 0.3 mAq (1.0 ftAq)
		Engine coolant temperature	85°C (185°F)
	Discharge performance II	Discharge	100 ℓ (26.4 US gal, 22.0 Imp gal)/min.
		Pump speed—total engine coolant head	3,000 rpm — 5.0 mAq (16.4 ftAq)
		Engine coolant temperature	85°C (185°F)
	Discharge performance III	Discharge	200 ℓ (52.8 US gal, 44.0 Imp gal)/min.
		Pump speed—total engine coolant head	6,000 rpm — 23.0 mAq (75.5 ftAq)
		Engine coolant temperature	85°C (185°F)
Impeller diameter		76 mm (2.99 in)	
Number of impeller vanes		8	
Pump pulley diameter		60 mm (2.36 in)	
Thermostat	Type	Wax pellet type	
	Starts to open	76 — 80°C (169 — 176°F)	
	Fully opened	91°C (196°F)	
	Valve lift	9.0 mm (0.354 in) or more	
	Valve bore	35 mm (1.38 in)	
Radiator fan	Motor	120 W	
	Fan diameter x Blade	320 mm (12.60 in) x 5	
Radiator	Type	Cross flow, pressure type	
	Core dimensions	670 x 361 x 16 mm (26.38 x 14.21 x 0.63 in)	
	Pressure range in which cap valve is open	Above: 88±10 kPa (0.9±0.1 kg/cm <sup>2</sup> , 12.8±1.4 psi) Below: -4.9 to -9.8 kPa (-0.05 to -0.1 kg/cm <sup>2</sup> , -0.7 to -1.4 psi)	
	Fins	Corrugated fin type	
Reservoir tank	Capacity	0.5 ℓ (0.5 US qt, 0.4 Imp qt)	

**2. 2500 cc MODEL**

Cooling system		Electric fan + Forced engine coolant circulation system	
Total engine coolant capacity		ℓ (US qt, Imp qt)	
		Approx. 6.1 (6.4, 5.4)	
Engine coolant pump	Type	Centrifugal impeller type	
	Discharge performance I	Discharge	20 ℓ (5.3 US gal, 4.4 Imp gal)/min.
		Pump speed—total engine coolant head	760 rpm — 0.3 mAq (1.0 ftAq)
		Engine coolant temperature	85°C (185°F)
	Discharge performance II	Discharge	100 ℓ (26.4 US gal, 22.0 Imp gal)/min.
		Pump speed—total engine coolant head	3,000 rpm — 5.0 mAq (16.4 ftAq)
		Engine coolant temperature	85°C (185°F)
	Discharge performance III	Discharge	200 ℓ (52.8 US gal, 44.0 Imp gal)/min.
		Pump speed—total engine coolant head	6,000 rpm — 23.0 mAq (75.5 ftAq)
		Engine coolant temperature	85°C (185°F)
Impeller diameter		76 mm (2.99 in)	
Number of impeller vanes		8	
Pump pulley diameter		60 mm (2.36 in)	
Thermostat	Type	Wax pellet type	
	Starts to open	76 — 80°C (169 — 176°F)	
	Fully opened	91°C (196°F)	
	Valve lift	9.0 mm (0.354 in) or more	
	Valve bore	35 mm (1.38 in)	
Radiator fan	Motor	120 W (main fan) 140 W (sub fan)	
	Fan diameter x Blade	340 mm (13.39 in) x 5 (main fan) 280 mm (11.02 in) x 4 (sub fan)	
Radiator	Type	Cross flow, pressure type	
	Core dimensions	670 x 361 x 25 mm (26.38 x 14.21 x 0.98 in)	
	Pressure range in which cap valve is open	Above: 88±10 kPa (0.9±0.1 kg/cm <sup>2</sup> , 12.8±1.4 psi) Below: -4.9 to -9.8 kPa (-0.05 to -0.1 kg/cm <sup>2</sup> , -0.7 to -1.4 psi)	
	Fins	Corrugated fin type	
Reservoir tank	Capacity	0.5 ℓ (0.5 US qt, 0.4 Imp qt)	

**B: SERVICE DATA**

Engine coolant pump	Clearance between impeller and case	Standard	0.5 — 0.7 mm (0.020 — 0.028 in)
		Limit	1.0 mm (0.039 in)
	“Thrust” runout of impeller end		0.5 mm (0.020 in)