MANUAL AIR CONDITIONING

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

3. Manual Air Conditioning

A: GENERAL

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1. SPECIFICATIONS

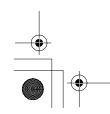
Item	Specifications			Remarks
Air conditioning	"Full-air-mix" type			
Cooling performance	Cooling capacity (W)		5100	
	Air flow rate (m ³ /h)		450	
Refrigerant quantity	HFC-134a (g)		500±50	
Compressor	Туре		Rotary type with vanes	Calsonic CR14
	Capacity (cm ³ /rev)		144	
	Maximum permissible speed (rpm)		7000	
	Lubricant (amount contained in compressor in g)		DH-PR (180)	
Magnetic clutch	Туре		Dry, single disc	
	Power consumption (W)		47	
	Pulley ratio		1:1.064 (crankshaft pulley diameter: 133 mm; compressor pulley diameter: 125 mm)	
	Belt		Polyurethane V-belt with four ribs	
Condenser	Туре		Multi-flow type (with built-in liquid tank for subcooling)	
	Fan	Туре	Electric-motor-driven axial flow fan	
		Fan diameter	320 mm (7+5 blades)	
		Power consumption (W)	120×2 (turbo models), 70×2 (non-turbo models)	
Evaporator	Туре		Laminated	
	Expansion valve		External pressure equalizing type	
	Temperature control		Thermo AMP (amplifier)	
Other controls	Fast idle control system		Engine control module (ECM)	
	High and low pressure limit control		Low-pressure switch: Turns off com- pressor at a pressure lower than 0.278 MPa High pressure switch: Turns off com- pressor at a pressure higher than 2.8 MPa	
	High-speed limit control		Performed by ECM	
	Radiator and condenser fan control		Performed by ECM	

2. CONTROL PANEL

<Ref. to AC-5 — Heater System, CONTROL PANEL.>

3. THERMO AMP (AMPLIFIER)

The thermo AMP detects the temperature at the evaporator outlet to turn off the magnetic clutch circuit when the evaporator temperature drops to a certain level in order to prevent frost from forming on the evaporator.



AC-18

