Description

The compressor is the drive unit of the A/C system.

Located on the side of the engine block, it is driven by the V-belt of the engine.

The compressor changes low pressure and low temperature refrigerant gas into high pressure and high temperature refrigerant gas.

Variable Swash Plate Compressor

The compressor has a rotating swash plate that reciprocates the pistons to compress refrigerant.

The variable swash plate compressor controls the swash plate angle to change the refrigerant displacement. It achieves precise cooling capability control in accordance with vehicle interior and driving conditions.

The internally controlled variable swash plate compressor changes the swash plate angle by the MCV (Mechanical Control Valve) in accordance with fluctuation of a suction pressure.

The externally controlled variable swash plate compressor changes the swash plate angle by the ECV (Electric Control Valve) in accordance with an electrical signal from the heater & A/C control unit.

This enables stable temperature control and improved driving experience.

ECV Control Diagram