

# Auto evaporator



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The refrigeration principle of automobile air conditioning is the same as the domestic air-conditioning. They are all introduced the principle that the volume inflation should of absorb a lot of heat energies with R12 or R134a as refrigerant. Automotive air conditioning's structure is similar to split air conditioning. The compressor is installed on the engine with belt transmission (or driven directly). The condenser is on the front of auto radiator, the auto evaporator is in the automobile. The refrigerant of the auto evaporator in low pressure and gaseous state turns to high pressure and high temperature gas when flow through the compressor, then turns to high pressure and low temperature liquid when flow through the condenser and radiating collar, dehumidified by liquid desiccant and buffering, flows to the expansion valve at a stable pressure and flux, throttles and voltage drop, flows to the auto evaporator finally. As soon as the refrigerant in low pressure, it absorbs massive heat energies and vaporized. The air in the compartment flows through the evaporator unceasingly, the temperature reduces at the same time. After the liquid refrigerant flows through the auto evaporator, it turns to the low pressure gas once more, be inhaled to the compressor again and in next