

Illustration 1

g01265314

(1) Typical evaporator coil

In an expansion valve system, the evaporator coil receives liquid refrigerant from the expansion valve. In an orifice tube system, the evaporator receives liquid refrigerant from the orifice tube assembly. The liquid refrigerant that is received by the evaporator has low pressure and low temperature. Since the pressure of the liquid refrigerant is low, the temperature of saturation of the refrigerant is low. At the temperature of saturation, the refrigerant changes from a liquid into a vapor. The temperature of saturation of a fluid increases when the pressure of a fluid increases.

The evaporator coil is exposed to the air that is inside of the cab. The heat from the air that is inside of the cab is absorbed by the evaporator. The evaporator transfers the heat to the refrigerant. The amount of heat that is required to reach the temperature of saturation is called the latent heat of vaporization. When this heat is absorbed by the refrigerant, the temperature of the refrigerant will reach the temperature of saturation. The refrigerant will change from a liquid into a vapor. The vaporized refrigerant will leave the evaporator. The vaporized refrigerant will carry away the heat from the cab. The vaporized refrigerant will return to the compressor when the refrigerant leaves the evaporator. This process is repeated continuously.

Systems Operation

Air Conditioning and Heating R134a for All Caterpillar Machines

Media Number - 854R5444-3.2

Publication Date - 01/05/2005

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85548855

Refrigerant Accumulator

SMCS - 7320-ZJ

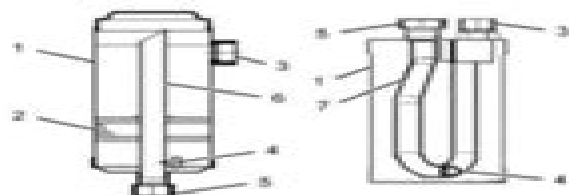


Illustration 1

g03724709

(1) Accumulator

(2) Desiccant

(3) Inlet

(4) Filter for the oil drain

(5) Outlet

(6) Standpipe

(7) J-tube

Low temperature low-pressure refrigerant leaves the evaporator coil and passes into the accumulator (1) through the inlet (3). Liquid refrigerant that was not evaporated in the evaporator is stored in the bottom of the accumulator. Vapor refrigerant passes through either the standpipe (6) or the J-tube (7) before exiting through the outlet (5). The oil goes to the compressor through a filter for the oil drain (4).

Cat 277b Ac Repair Manual

George Montagu



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