

REFRIGERATION CYCLE DEVICE

ABSTRACT

5 The present invention includes a refrigeration cycle circuit that includes compressor (102), indoor heat exchanger (103), expansion valve (104), and outdoor heat exchanger (105) that are connected to each other. A working fluid containing R1123 (1,1,2-trifluoroethylene) and R32 (difluoromethane) is used as a refrigerant sealed in the refrigeration cycle circuit, and an electric
10 motor driving device that drives an electric motor of compressor (102) includes a rotational speed estimator. The rotational speed estimator estimates rotational speed based on information on a detection value of an electric current input to the electric motor or a magnetic pole position of a rotor that constitutes the electric motor.

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[FIG. 1]