Title (en)

REFRIGERANT CYCLE DEVICE, REFRIGERANT AMOUNT DETERMINATION SYSTEM, AND REFRIGERANT AMOUNT DETERMINATION METHOD

Title (de)

KÜHLMITTELKREISLAUF, KÜHLMITTELMENGENBESTIMMUNGSSYSTEM UND KÜHLMITTELMENGENBESTIMMUNGSVERFAHREN

Title (fr)

DISPOSITIF DE CYCLE DE RÉFRIGÉRANT, SYSTÈME DE DÉTERMINATION DE QUANTITÉ DE RÉFRIGÉRANT, ET PROCÉDÉ DE DÉTERMINATION DE QUANTITÉ DE RÉFRIGÉRANT

Publication

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Application

EP 19887164 A 20191112

Priority

- JP 2018216841 A 20181119
- JP 2019044420 W 20191112

Abstract (en)

The technique in PTL 1 is incapable of grasping a decrease in the amount of a refrigerant from an initial amount of the refrigerant, and the determination of the amount of the refrigerant is insufficient for the purpose other than protection of a compressor. A refrigeration cycle apparatus (100) includes an air temperature sensor (36), a condensation temperature sensor (37), an acquisition unit (38), and a determination unit (34). The air temperature sensor (36) detects an air temperature, which is a temperature of air that flows into a condenser. The condensation temperature sensor (37) detects a condensation temperature of the refrigerant that flows through the condenser. The acquisition unit (38) acquires a temperature difference between the air temperature and the condensation temperature. The determination unit (34) determines an amount of the refrigerant included in the refrigerant circuit by comparing a first temperature difference and a second temperature difference with each other. The first temperature difference is a temperature difference acquired by the acquisition unit (38) at a first timing. The second temperature difference is a temperature difference acquired by the acquisition unit (38) at a second timing.

IPC 8 full level

F25B 49/02 (2006.01)

CPC (source: EP US)

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