

REFRIGERATION CYCLE SYSTEM

Abstract

A refrigeration cycle system includes a detector for measuring a related physical quantity that is a physical quantity related to a state of a refrigerant circuit, and a controller for executing an anomaly determination mode. A decompressor can be switched between a first decompression amount state, and a second decompression amount state in which a decompression amount is smaller than that of the first decompression amount state. When the anomaly determination mode starts, the controller brings the decompressor into the first decompression amount state, and operates a compressor at a first speed. The controller is configured to store a value of the related physical quantity measured by the detector at a time point at which a first time elapses from a start of the anomaly determination mode, as a first measurement value, and thereafter switch the decompressor to the second decompression amount state from the first decompression amount state, store a value of the related physical quantity measured by the detector after the decompressor is switched to the second decompression amount state from the first decompression amount state, as a second measurement value, and determine that there is an anomaly in the refrigerant circuit when a value obtained by subtracting the first measurement value from the second measurement value is larger than a first anomaly determination value and stop an operation of the compressor.

FIG. 2