

Abstract

The objective of the present invention is to reduce control delay in an expansion valve due to measurement delay in a thermometer. A control device (30) for a turbo refrigerator is provided with a temperature correction unit (31) for correcting a hot-water inlet temperature and a hot-water outlet temperature, and an expansion-valve control unit (32) for controlling the opening degree of a main expansion valve using the hot-water inlet temperature and the hot-water outlet temperature which were corrected by the temperature correction unit (31). The temperature correction unit (31) has a condensation-temperature acquisition unit (41) for acquiring a condensation temperature based on a condensation pressure, a temperature-difference calculation unit (42) for subtracting the condensation temperature at a fixed amount of time earlier from the current condensation temperature to calculate a temperature difference, a determination unit (43) for determining whether the absolute value of the temperature difference is at or above a preset threshold, and a correction unit (44) for adding the temperature difference to the hot-water inlet temperature and the hot-water outlet temperature when the absolute value of the temperature difference is at or above the

threshold.