ABSTRACT

REFRIGERATION CONTROL DEVICE TO REDUCE POWER CONSUMPTION OF A REFRIGERATION APPLIANCE

A refrigeration control device to reduce power consumption of a refrigeration appliance has an ambient temperature/humidity sensor (42) and a main controller (43). The ambient temperature/humidity sensor (42) is mounted outside the refrigeration appliance. The main controller (43) is electronically connected to the ambient temperature/humidity sensor (42) and at least one defogging heater (17, 27, 37) in the refrigeration appliance and stores a defogging database and a defogging control process. The defogging database is a table of multiple standard dew point values and multiple defogging duration values. The defogging control process calculates a dew point, enters the table with the closest standard dew point value and extracts the corresponding defogging duration value from the table in the defogging database and activates the defogging heater for a number of times equal to the extracted defogging duration value.

Fig. 2