REFRIGERANT DISTRIBUTION DEVICE, COOLING SYSTEM, AND REFRIGERANT DISTRIBUTION METHOD IN REFRIGERANT DISTRIBUTION DEVICE

ABSTRACT

A refrigerant distribution device includes: a distribution vessel in which a refrigerant liquid flows; a refrigerant inflow pipe connected to a top portion of the distribution vessel and supplied with a refrigerant liquid; a first refrigerant outflow pipe and a second refrigerant outflow pipe connected to a bottom portion of the distribution vessel to discharge the refrigerant liquid; and a float channel switching valve that floats in the refrigerant liquid in the distribution vessel. The flow channel switching valve switches a passage to the first refrigerant outflow pipe when an amount of the refrigerant liquid in one heat receiver does not reach a reference amount of liquid, and cuts off the passage communicating with the first refrigerant outflow pipe and switches the passage to the second refrigerant outflow pipe when the amount of the refrigerant liquid in the one heat receiver reaches the reference amount of liquid.

Figs. 1A and 1B