

STORAGE TYPE HOT WATER SUPPLYING APPARATUS

Abstract

A storage type hot water supplying apparatus includes: a hot water storage tank; a feed water inlet located at a lower part of the hot water storage tank; a hot water outlet located at a higher part of the hot water storage tank; an evaporator for evaporating refrigerant; a compressor for compressing the refrigerant flowing out of the evaporator; a condenser having a refrigerant passage located at the hot water storage tank, the condenser being configured to condense the refrigerant by exchanging heat between the refrigerant compressed by the compressor and water in the hot water storage tank; an expansion valve for expanding the refrigerant flowing out of the condenser; control circuitry configured to control a hot water storage operation, the hot water storage operation being an operation to heat the water in the hot water storage tank with the refrigerant flowing through the refrigerant passage of the condenser; and a hot water supply detection sensor capable of detecting that a hot water supply operation is started, the hot water supply operation being an operation in which hot water in the hot water storage tank flows out of the hot water outlet and water flows into the hot water storage tank from the feed water inlet. The control circuitry is configured to increase an opening degree of the expansion valve when the hot water supply operation is started during the hot water storage operation.

Fig. 3