

Title (en)
ECONOMIZER FOR REFRIGERATION SYSTEM AND REFRIGERATION SYSTEM

Title (de)
ECONOMISER FÜR EIN KÄLTESYSTEM UND KÄLTESYSTEM

Title (fr)
ÉCONOMISEUR POUR SYSTÈME DE RÉFRIGÉRATION ET SYSTÈME DE RÉFRIGÉRATION

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Application
EP 22179463 A 20220616

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Abstract (en)
[origin: EP4105576A1] The present invention relates to an economizer 100 for a refrigeration system, the refrigeration system comprising a refrigerant circuit formed by sequentially connecting a compressor, a condenser, an expansion mechanism and an evaporator, wherein the economizer 100 comprises: a tank 110 extending in a horizontal direction; a lead-in pipe 120 arranged at one end of the tank 110 for introducing gas-liquid two-phase refrigerant from the condenser; a gas outlet portion 130 arranged at the other end of the tank 110 for directing gaseous refrigerant back to the compressor; and a liquid outlet portion 140 arranged below the gas outlet portion 130 for directing liquid refrigerant to the evaporator, wherein a threaded portion 121 is provided on an inner wall of the lead-in pipe 120 for performing gas-liquid separation for the gas-liquid two-phase refrigerant by means of centrifugal action. The present invention further provides a refrigeration system provided with the economizer 100. The economizer 100 for a refrigeration system according to the present invention can greatly improve the gas-liquid separation efficiency of the gas-liquid two-phase refrigerant.

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