

Title (en)

REFRIGERATION SYSTEM WITH REFRIGERANT FLOW CONTROLLING VALVE AND METHOD OF CONSERVING ENERGY IN THE OPERATION OF A COMPRESSOR-CONDENSOR-EVAPORATOR TYPE REFRIGERATION SYSTEM

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0060315A1] A refrigeration system is disclosed having a compressor (12), a condenser (14), an evaporator (18), a refrigerant expansion device (16), a control (22) for cycling the compressor (12) on and off according to a sensed condition, and a refrigerant flow controlling valve (30). For conserving energy in operation the flow controlling valve (30) blocks the flow of refrigerant between the condenser (14) and the evaporator (18) when the compressor (12) is cycled off and enables refrigerant flow between the condenser (14) and the evaporator (18) when the compressor (12) is cycled on. The flow control valve (30) includes a refrigerant pressure responsive member (34) movable to condition the valve (30) to block refrigerant flow in response to changes in refrigerant pressure caused by the compressor cycling off and movable to condition the valve (30) to enable refrigerant flow in response to changes in refrigerant pressure caused by the compressor cycling on.

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