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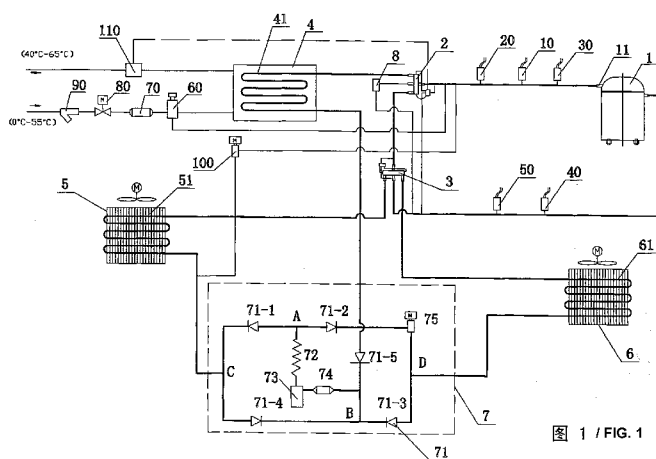
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(54) Title: MULTIFUNCTIONAL AIR-CONDITIONING AND HOT-WATER SYSTEM

(54) 发明名称: 多功能空调、热水系统



(57) Abstract: Disclosed is a multifunctional air-conditioning and hot-water system which comprises a special three-way valve (2), a four-way valve (3), an outdoor heat exchanger (5), an indoor heat exchanger (6), a multifunctional throttling channel conversion device (7) and a pressure relief device (8). An inlet of the special three-way valve (2) is connected with an air outlet of a compressor (1), one outlet of the special three-way valve (2) is connected with an inlet of a heat-exchange pipeline (41) of a water-heating exchanger (4), the other outlet of the special three-way valve (2) is connected with an inlet of the four-way valve (3), and an additional channel is connected with an inlet of the pressure relief device (8). A water outlet controller (110) linked with the special three-way valve (2) is arranged at the hot water outlet end of the water-heating exchanger (4). Three outlets of the four-way valve (3) are respectively connected with a heat exchange pipeline (51) of the outdoor heat exchanger (5), a heat exchange pipeline (61) of the indoor heat exchanger (6) and an air return port of the compressor (1). The outlet of the heat exchange pipeline (41) of the water-heating exchanger (4), the other end of the heat exchange pipeline (51) of the outdoor heat exchanger (5) and the other end of the heat exchange pipeline (61) of the indoor heat exchanger (6) are respectively connected with three ports of the multifunctional throttling channel conversion device (7).

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