



Abstract



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The present invention is intended for providing space saving and cost reduction of a multi-stage type refrigeration system including a chiller unit (4) and a
5 freezer unit (5) by eliminating a cascade unit. The freezer unit (5) is provided with a freezing compressor (55) for compressing a refrigerant in a total of two stages together with compressors (11, 12) in an outdoor unit (2). The freezing compressor (55) is formed by an inverter compressor. An oil separator (64) is disposed on the discharge pipe of the freezing compressor (55). On the inlet pipe (68) of the freezing
10 compressor (55), a heat exchanger (67) is provided for cooling an inverter with an refrigeration oil separated by the oil separator (64) and a suction refrigerant.