Various programs installed in the auxiliary storage device 104 are installed, for example, when the distributed recording medium 110 is set in the drive device 108 and various programs recorded in the recording medium 110 are read by the drive device 108. Alternatively, various programs installed in the auxiliary storage device 104 may be installed by being downloaded from a network (not illustrated).

[0026]

<<Configuration of the device 20>>

Next, the configuration of the device 20 according to the embodiment will be described. An example in which the device 20 is an air conditioner will be described below.

[0027]

FIG. 3A illustrates an example of the configuration of an outdoor unit 2000 of the device 20 according to the embodiment. FIG. 3B illustrates an example of the configuration of an indoor unit 2500 of the device 20 according to the embodiment.

[0028]

The device 20, which is an air conditioner, includes a control device 40 that controls each unit of the device 20. The control device 40 may be built into, for example, the outdoor unit 2000 or the indoor unit 2500 of the device 20. The control device 40 of the device 20 may be implemented by a microcontroller in which the CPU, a memory, and an input/output unit are built into one integrated circuit. Further, the control device 40 of the device 20 may be implemented by a circuit such as an ASIC (Application Specific Integrated Circuit), a DSP (digital signal processor), an FPGA (field

programmable gate array), or the like. Further, the control device 40 of the device 20 may be implemented by the computer illustrated in FIG. 2 above.

[0029]

Further, the device 20 is equipped with various devices configuring a refrigerant circuit ~~200~~ and various sensors. Each device configuring the refrigerant circuit ~~200~~ is controlled by the control device 40. The refrigerant circuit ~~200~~ is, for example, a closed circuit filled with a refrigerant such as chlorofluorocarbon. The refrigerant circuit ~~200~~ may be configured, for example, such that the refrigerant circulates to perform a vapor compression type refrigeration cycle.

[0030]

(Configuration of the outdoor unit 2000 of the device 20)

In the example illustrated in FIG. 3A, the outdoor unit 2000 of the device 20 includes a compressor 201, an outdoor heat exchanger 202, an electronic expansion valve 203, an electronic expansion valve 204, an electromagnetic valve 205 (oil separator oil return), an electromagnetic valve 206 (oil separator bypass), an electromagnetic valve 207 (accumulator oil return), a four-way switching valve 208, a high-pressure sensor 209, a low-pressure sensor 210, a high-pressure switch 211, a pressure adjustment valve 212, a supercooling heat exchanger 213, a capillary tube 214, a thermistor 215, a thermistor 216, a thermistor 217, a thermistor 218, a thermistor 219, a thermistor 220, a thermistor 221, a thermistor 222, a refrigerant cooling plate 223, etc.

[0031]

liquid condensed by the condenser. The receiver can temporarily store the refrigerant liquid when, for example, the amount of refrigerant in the evaporator changes due to variations in air conditioning load.

[0045]

(Configuration of the indoor unit 2500 of the device 20)

In the example of FIG. 3B, the indoor unit 2500 (~~outdoor~~indoor unit) of the device 20 includes an electronic expansion valve 251, a thermistor 252, a thermistor 253, a thermistor 254, a thermistor 255, an indoor heat exchanger 256, etc.

[0046]

The electronic expansion valve 251 may be used for gas superheating control during a cooling operation and for supercooling control during a heating operation. The thermistor 252 is a sensor that detects the temperature (indoor temperature) of air taken in by the fan of the indoor heat exchanger 256. The thermistor 253 is a sensor that detects the liquid tube temperature between the electronic expansion valve 251 and the indoor heat exchanger 256. The liquid tube temperature measured by the thermistor 253 may be used, for example, for gas superheating control during a cooling operation, for supercooling control during a heating operation, etc.

[0047]

The thermistor 254 is a sensor that detects the gas tube temperature between the indoor heat exchanger 256 and the gas-side piping to the outdoor unit 2000. The gas tube temperature measured by the thermistor 254 may be used, for example, to control the degree of gas superheating during a cooling