CLAIMS

1. An air conditioning system comprising:

a plurality of air conditioners (20, 40) each including an indoor unit (30, 50) and an outdoor unit (21, 41), each of the air conditioners being configured to perform a refrigeration cycle individually and air-condition a same indoor space; and

a control device (60) that controls the plurality of air conditioners (20, 40),

wherein the control device (60) is configured to perform a simultaneous operation of controlling at least one of the air conditioners (20) as a latent heat machine such that the indoor unit (30) of the air conditioner (20) cools air to a dew point temperature or lower, and simultaneously controlling another air conditioner (40) as a sensible heat machine such that the indoor unit (50) of the other air conditioner (40) cools the air at a temperature higher than the dew point temperature,

the control device (60) performs a control operation of adjusting a cooling capacity of the indoor unit (30) of the air conditioner (20) operating as the latent heat machine and a cooling capacity of the indoor unit (50) of the air conditioner (40) operating as the sensible heat machine, such that a current indoor temperature and a current indoor humidity are brought close to target values of indoor temperature and humidity, and

in the control operation, the control device (60) adjusts an evaporation temperature of the air conditioner (20) operating as the latent heat machine while the air conditioner (20) is maintained as the latent heat machine based on the current indoor temperature and the current indoor humidity and the target values of indoor temperature and humidity.

2. The air conditioning system according to claim 1,

wherein, during the control operation, the control device (60) determines the cooling capacities of the indoor units (30, 50) of the air conditioners (20, 40) based at least on the target values, the current indoor temperature, and the current indoor humidity.

3. The air conditioning system according to claim 2,

wherein, during the control operation, the control device (60) determines the cooling

capacities of the indoor units (30, 50) of the air conditioners (20, 40) based on the target values, the current indoor temperature and the current indoor humidity, and indoor temperature and humidity at a predetermined time before a current time.

4. The air conditioning system according to any one of claims 1 to 3,

wherein the control device (60) performs the simultaneous operation when the indoor temperature and humidity are within a predetermined temperature and humidity range including the target values, while the control device (60) performs a dehumidifying operation of controlling all the air conditioners (20) such that the indoor units (30) of the air conditioners (20) cool the air to the dew point temperature or lower when the indoor humidity exceeds a predetermined humidity equal to or higher than the temperature and humidity range.

5. The air conditioning system according to any one of claims 1 to 4,

wherein, during the control operation, the control device (60) controls the cooling capacity of the indoor unit (30) of the air conditioner (20) operating as the latent heat machine and the cooling capacity of the indoor unit (50) of the air conditioner (40) operating as the sensible heat machine at a same timing.