CLAIMS

1. A chilled water circulation system comprising:

a cooling device;

a control device that uses a control parameter for controlling an operational state of the cooling device so as to control operation of the cooling device;

a first detector that detects a value of a first parameter indicating a state of a cooling target; and

a second detector that detects a value of a second parameter indicating the state of the cooling target,

wherein the control device can perform:

a first determination process to determine whether the value detected by the first detector satisfies a first management condition preset for the first parameter;

a first setting process to set a preset first set value for the first parameter if the first management condition is determined to be unsatisfied;

a second determination process to determine whether the value detected by the second detector satisfies a second management condition preset for the second parameter;

a second setting process to set a preset second set value for the second parameter if the second management condition is determined to be unsatisfied; and

a determination process to calculate a statistic based at least on the first set value and the second set value, and to determine the control parameter by using the statistic under a preset rule.

2. The chilled water circulation system according to claim 1,

wherein the cooling device comprises:

a thermal source machine that cools chilled water; and

at least one heat exchanger that cools a chilled medium and the cooling target.

3. The chilled water circulation system according to claim 1 or 2,

wherein the control device uses time as the control parameter, and

wherein, after performing a process to change a cooling capacity, the control device can perform a subsequent further process when the time passes, the time being the control parameter determined by the determination process.

4. A program for a chilled water circulation system, the chilled water circulation system including:

a cooling device including at least:

a thermal source machine that cools chilled water; and

at least one heat exchanger that cools the chilled water and the cooling target that are chilled;

a control device that uses a control parameter for controlling an operational state of the cooling device so as to control operation of the cooling device;

a first detector that detects a value of a first parameter directly or indirectly indicating a state of the cooling target;

a second detector that detects of a value of a second parameter directly or indirectly indicating the state of the cooling target,

the program being adopted in the chilled water circulation system and installed in the control device,

wherein the program causes the control device to perform:

a first determination process to determine whether the value detected by the first detector satisfies a first management condition preset for the first parameter;

a first setting process to set a preset first set value for the first parameter if the first management condition is determined to be unsatisfied;

a second determination process to determine whether the value detected by the second detector satisfies a second management condition preset for the second parameter;

a second setting process to set a preset second set value for the second parameter if the second management condition is determined to be unsatisfied; and

a determination process to calculate a statistic based at least on the first set value and the second set value, and to determine the control parameter by using the statistic under a preset rule.

5. The program for a chilled water circulation system according to claim 4,

wherein the control device uses time as the control parameter, and

wherein, after the program for a chilled water circulation system causes the control device to perform a process to change a cooling capacity, the program causes the control device to perform a subsequent further process when the time passes, the time being the control parameter determined by the determination process.

6. A heat medium circulation system comprising:

a cooling device;

a control device that uses a control parameter for controlling an operational state of the cooling device so as to control operation of the cooling device;

a first detector that detects a value of a first parameter indicating a state of a cooling target; and

a second detector that detects a value of a second parameter indicating the state of the cooling target,

wherein the control device can perform:

a first determination process to determine whether the value detected by the first detector satisfies a first management condition preset for the first parameter;

a first setting process to set a preset first set value for the first parameter if the first management condition is determined to be unsatisfied;

a second determination process to determine whether the value detected by the second detector satisfies a second management condition preset for the second parameter;

a second setting process to set a preset second set value for the second parameter if the second management condition is determined to be unsatisfied; and

a determination process to calculate a statistic based at least on the first set value and the second set value, and to determine the control parameter by using the statistic under a preset rule.

7. The heat medium circulation system according to claim 6,

wherein the cooling device comprises:

a thermal source machine that cools a medium, and

at least one heat exchanger that cools a chilled medium and the cooling target.

8. The heat medium circulation system according to claim 6 or 7,

wherein the control device uses time as the control parameter, and

wherein, after performing a process to change a cooling capacity, the control device can perform a subsequent further process when the time passes, the time being the control parameter determined by the determination process.