CLAIMS

1. An air conditioning apparatus comprising:

a return air duct that allows return air from an air conditioning control target to flow therethrough;

an indoor unit that introduces at least one of outdoor air and the return air ~~from an air conditioning control target,~~ and discharges the introduced air to the air conditioning control target as supply air; and

an air conditioning controller,

wherein the indoor unit comprises

a first space comprising an outdoor air introducing unit introducing the outdoor air and a cooler and

a second space comprising a return air introducing unit introducing the return air from the air conditioning control target,

when the air conditioning controller determines that air conditioning control on the air conditioning control target is necessary, ~~a first conditioning control is performed, the first conditioning control comprising:~~

the outdoor air is introduced to the first space through the outdoor air introducing device~~unit~~, and is subjected to at least one of cooling by the cooler and dehumidification in the first space to be processed outdoor air, ~~; and~~

the return air is introduced to the second space through the return air introducing unit, and in the second space, the processed outdoor air is mixed with the return air to be discharged to the air conditioning control target as the supply air, ~~.~~

~~2. The air conditioning apparatus according to claim 1,~~

~~wherein~~ the air conditioning controller determines that the air conditioning control on the air conditioning control target is necessary when the air conditioning controller determines that an outdoor air condition corresponds to an air condition range that is larger than an upper limit value of absolute humidity of a predetermined target range of temperature, absolute humidity, and relative humidity, and is a value of enthalpy corresponding to the upper limit value of the absolute humidity of the target range and a return air temperature or less, and

the target range is calculated so that consumption energy becomes minimized.

2~~3~~. The air conditioning apparatus according to claim 1~~2~~,

wherein the air conditioning controller determines that the air conditioning control on the air conditioning control target is necessary even when the air conditioning controller determines that an air condition of the outdoor air corresponds to an ~~specific~~ air condition range that is less than the upper limit value of the absolute humidity of the target range, is larger than an upper limit value of an enthalpy range corresponding to an air condition of a range corresponding to the target range, is the return air temperature or less, and is larger than a temperature upper limit value of the target range, and in this case~~when the air condition of the outdoor air corresponds to the specific air condition range~~, instead of the ~~first~~ air conditioning control, the outdoor air is introduced from the outdoor air introducing device~~unit~~ to the first space, is cooled by the cooler in the first space to be processed outdoor air, and the processed outdoor air is discharged to the air conditioning control target as the supply air.

34. The air conditioning apparatus according to ~~any one of~~ claim~~s~~ 1 or 2~~to 3~~,

wherein the air conditioning controller acquires measurement values of outdoor air temperature, outdoor air humidity, and return air temperature twice or more within one day, and determines whether or not air conditioning control is necessary according to acquisition of the measurement values.

45. The air conditioning apparatus according to any one of claims 1 to 3, further comprising a server room, wherein

the air conditioning control target is a space within the server room, the server room comprises a third space and a fourth space which are separated from each other, a server is installed between the third space and the fourth space, and supply air flowing into the third space is heated by heat generation of the server to flow out through the fourth space as return air.

56. An air conditioning control method comprising:

when an air conditioning controller of an air conditioning apparatus determines that air conditioning control on an air conditioning control target is necessary, the air conditioning apparatus comprising a return air duct which allows return air from an air conditioning control target to flow therethrough, an indoor unit which introduces at least one of outdoor air and the return air ~~from the air conditioning control target~~ and which discharges the introduced air to the air conditioning control target as supply air, and the air conditioning controller, the indoor unit comprising a first space comprising an outdoor air introducing unit which introduces

the outdoor air and a cooler, and a second space comprising a return air introducing unit introducing the return air from the air conditioning control target,

introducing the outdoor air to the first space through the outdoor air introducing device~~unit~~, and subjecting the outdoor air to at least one of cooling by the cooler and dehumidification in the first space to be processed outdoor air, and

introducing the return air to the second space through the return air introducing unit, and in the second space, mixing the processed outdoor air with the return air to discharge the mixed air to the air conditioning control target as the supply air, wherein

the air conditioning controller determines that the air conditioning control on the air conditioning control target is necessary when the air conditioning controller determines that an outdoor air condition corresponds to an air condition range that is larger than an upper limit value of absolute humidity of a predetermined target range of temperature, absolute humidity, and relative humidity, and is a value of enthalpy corresponding to the upper limit value of the absolute humidity of the target range and a return air temperature or less, and

the target range is calculated so that consumption energy becomes minimized.