CLAIMS

1. A storage system comprising:

a storeroom (10); and an inside air control system (20) that regulates a composition of inside air in the storeroom (10),

the inside air control system (20) including a concentration sensor (33) that detects a concentration of a component of the inside air, wherein

the concentration sensor (33) is disposed outside the storeroom (10), and that the storage system has an air passage (48, 54) that communicates with an internal space (S) of the storeroom (10) and the concentration sensor (33), and

the air passage (48) includes an introduction passage (47) through which the inside air is introduced into the concentration sensor (33), and a return passage (46) through which air is returned from the concentration sensor (33) to the internal space (S).

2. The storage system of claim 1, wherein

the concentration sensor (33) is connected through a second gas supply tube (45) to a pump unit (21) having an air circuit that adjusts oxygen and carbon dioxide concentrations in the air.

3. The storage system of claim 1 or 2, wherein

the concentration sensor (33) includes one or both of an oxygen sensor (33a) that detects an oxygen concentration of the inside air and a carbon dioxide sensor (33b) that detects a carbon dioxide concentration of the inside air.

4. The storage system of any one of claims 1 to 3, wherein

the return passage (46) is connected to a water discharge tube (74) through which drain water is discharged to outside the storeroom.

5. The storage system of any one of claims 1 to 4, wherein

an internal fan (15) is provided in the internal space (S),

an opening (47a) of the introduction passage (47) inside the internal space is disposed adjacent to an air blowout end of the internal fan (15), and

an opening (46a) of the return passage (46) inside the internal space is disposed adjacent to an air suction end of the internal fan (15).

6. The storage system of claim 5, wherein

the inside air control system (20) includes a control unit (31) that performs control to regulate the composition of the inside air, and

the control unit (31) performs control to regulate the composition of the inside air based on a value detected by the concentration sensor (33) and an associated target value, the value detected being obtained after a preset time period has elapsed since activation of the internal fan (15).

7. The storage system of any one of claims 1 to 3, wherein

the air passage (54) includes: an introduction passage (55) through which the inside air is introduced into the concentration sensor (33); and

a discharge passage (56) through which air is discharged from the concentration sensor (33) to an external space (O).

8. The storage system of claim 7, wherein

an external fan (57) disposed outside the storeroom (10), wherein

an air outflow opening (56a) of the discharge passage (56) is disposed adjacent to an air suction end of the external fan (57).

9. The storage system of claim 7, wherein

a sensor fan (58) that sends air to the concentration sensor (33) is disposed proximate to the concentration sensor (33), and

an air outflow opening (55a) of the introduction passage (55) is disposed adjacent to an air suction end of the sensor fan (58).

10. The storage system of claim 7, further comprising:

an electric component box (30); and a ventilation valve (24) for use to ventilate an internal space of the electric component box (30), wherein

the concentration sensor (33) is disposed inside the electric component box (30), and

the introduction passage (55) passes through the ventilation valve (24).

11. The storage system of any one of claims 1 to 9, further comprising:

an electric component box (30), wherein

the concentration sensor (33) is disposed inside the electric component box (30).

12. The storage system of any one of claims 1 to 11, further comprising:

a refrigerator (60) that cools the internal space (S) of the storeroom (10).

13. The storage system of any one of claims 1 to 12, further comprising:

a lock (50) fitted to a door of the storeroom (10); and

a locking-unlocking mechanism (51) that locks the door if a value detected by the concentration sensor (33) is within a predetermined concentration range of an associated component of the inside air in which the door is locked, and that unlocks the door if the value detected is within a predetermined concentration range of the associated component of the inside air in which the door is unlocked.