CLAIMS

1. An air treatment device, comprising:

a treatment-side passage (20) through which target air that is indoor air flows;

a regeneration-side passage (30) through which regeneration air flows;

a treatment rotor (50) disposed to intersect the treatment-side passage (20) and the regeneration-side passage (30) and rotating to capture a toxic substance contained in the target air;

a heating section (H) configured to heat the regeneration air to be supplied to the treatment rotor (50) to remove the toxic substance from the treatment rotor (50);

a detector (60) configured to detect an index correlated with a concentration of the toxic substance contained in the target air, the device further comprising:

a control unit (90) performs control according to the received detection value of the detector (60) to adjust an amount of heat with respect to an amount of regeneration air heated by the heating section (H), wherein

the treatment-side passage (20) and the regeneration-side passage (30) are independent passages that do not communicate with each other.

2. The air treatment device of claim 1, wherein

the control unit (90) reduces the amount of the regeneration air heated by the heating section (H) as the concentration of the toxic substance contained in the target air decreases.

3. The air treatment device of claim 1 or 2, wherein

the treatment rotor (50) captures carbon dioxide, which is the toxic substance.