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 ~~a treater (P) configured~~ 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) ~~a regenerator (R) configured~~ to remove the toxic substance from the treatment rotor (50)~~treater (P)~~;

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

a control unit (90) performs control ~~configured to control the regenerator (R)~~ according to the ~~a~~ received detection value of ~~detected by~~ 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, further comprising:~~

~~a treatment-side passage (20) through which the target air flows; and~~

~~a regeneration-side passage (30) through which regeneration air flows, wherein~~

~~the treater (P) is a treatment rotor (50) disposed to intersect the treatment-side passage (20) and the regeneration-side passage (30) and rotating,~~

~~the regenerator (R) is a heating section (H) configured to heat the regeneration air to~~

~~be supplied to the treater (P), and~~

~~the control unit (90) adjusts an amount of the regeneration air heated by the heating section (H) according to the detection value detected by the detector (60).~~

~~2~~3. The air treatment device of claim 1~~2~~, 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 ~~room~~ target air decreases.

~~4. The air treatment device of claim 1, wherein~~

~~the treater (P) includes an adsorbent that adsorbs the toxic substance,~~

~~the regenerator (R) is a discharge mechanism (80) configured to discharge gas from the treater (P) to desorb the toxic substance from the adsorbent,~~

~~the air treatment device (10) performs an adsorption operation of adsorbing the toxic substance in the target air onto the treater (P), and a regeneration operation of actuating the discharge mechanism (80) to desorb the toxic substance from the adsorbent in the treater (P), and~~

~~the control unit (90) adjusts the number of actuations of the discharge mechanism (80) per predetermined time according to the detection value detected by the detector (60).~~

~~5. The air treatment device of claim 4, wherein~~

~~the control unit (90) reduces the number of the actuations of the discharge mechanism (80) per predetermined time as the concentration of the toxic substance contained in the room air decreases.~~

~~3~~6. The air treatment device of claim 1 or 2~~any one of claims 1 to 5~~, wherein the treatment rotor (50) ~~treater (P)~~ captures carbon dioxide, which is the toxic substance.