CLAIMS

[Claim 1]

An internal air adjustment device that adjusts a composition of internal air in an inside of a storage (1), comprising:

an internal-side passage (70) including an internal-side separator (61) configured to separate return air whose composition differs from the composition of the internal air in the inside of the storage (1) from the internal air, the internal-side passage (70) sending the internal air to the internal-side separator (61) from the inside of the storage (1) and sending the return air to the inside of the storage (1) from the internal-side separator (61); and

an internal-side treatment unit (152) configured to perform decomposition of ethylene in air that flows in the internal-side passage (70),

the internal-side treatment unit (152) is disposed upstream from the internal-side separator (61) in the internal-side passage (70), and supplies the internal air including carbon dioxide resulting from the decomposition of ethylene to the internal-side separator (61),

wherein the internal-side separator (61) in the internal-side passage (70) separates the return air whose

concentration of carbon dioxide is higher than a concentration of carbon dioxide of the internal air from the internal air having passed through the internal-side treatment unit (152).

[Claim 2]

The internal air adjustment device according to claim 1,

wherein the internal-side treatment unit (152) further decomposes microbes in the internal air.

[Claim 3]

The internal air adjustment device according to claim 2,

wherein the internal-side treatment unit (152) includes

an ultraviolet light source (158) configured to produce ultraviolet rays, and

a photocatalyst (156) that is subjected to the ultraviolet rays produced by the ultraviolet light source (158), and decomposes ethylene and microbes.

[Claim 4]

The internal air adjustment device according to any one of claims 1 to 3, comprising:

an external-side passage (50) including an external-side separator (41) configured to separate supply air whose composition differs from a composition of external air in an outside of the storage (1) from the external air, the

external-side passage (50) sending the external air to the external-side separator (41) from the outside of the storage (1) and sending the supply air to the inside of the storage (1) from the external-side separator (41); and

an external-side treatment unit (151) provided at the external-side passage (50) and configured to decompose microbes in the external air.

[Claim 5]

The internal air adjustment device according to claim 4,

wherein the external-side treatment unit (151) includes

an ultraviolet light source (158) configured to produce ultraviolet rays, and

a photocatalyst (156) that is subjected to the ultraviolet rays produced by the ultraviolet light source (158), and decomposes microbes.