# CLAIMS

[Claim 1]

An air composition adjusting device for adjusting composition of air in a target space (5), comprising:

a first carbon dioxide separator (41) that separates carbon dioxide from air-to-be-treated that is external air outside the target space (5) to generate high carbon dioxide concentration gas having a higher carbon dioxide concentration than the air-to-be-treated;

a second carbon dioxide separator (61) that separates carbon dioxide from air-to-be-treated that is internal air inside the target space (5) to generate high carbon dioxide concentration gas having a higher carbon dioxide concentration than the air-to-be-treated;

a gas supply path (135) including a high concentration gas supply path (136) through which the first and second carbon dioxide separators (41, 61) communicates with the target space (5); and

a controller (110) that performs a carbon dioxide concentration raising operation of supplying both of the high carbon dioxide concentration gas generated in the first carbon dioxide separator (41) and the high carbon dioxide concentration gas generated in the second carbon dioxide separator (61), to the target space (5) through the high concentration gas supply path (136).

[Claim 2]

An air composition adjusting device for adjusting composition of air in a target space (5), comprising:

a carbon dioxide separator (41, 61) that separates carbon dioxide from air-to-be-treated to be supplied to the target space (5);

a gas supply path (135) including a high concentration gas supply path (136) through which the carbon dioxide separator (41, 61) communicates with the target space

(5); and

a controller (110) that performs a carbon dioxide concentration raising operation of supplying a high carbon dioxide concentration gas, which has a higher carbon dioxide concentration than air-to-be-treated before being treated by the carbon dioxide separator (41, 61), to the target space (5) through the high concentration gas supply path (136)

wherein the carbon dioxide separator (41, 61) is configured to separate the air-to-be-treated into the high carbon dioxide concentration gas and a low carbon dioxide concentration gas, which has a lower carbon dioxide concentration than air-to-be-treated before being treated,

wherein the gas supply path (135) includes a low concentration gas supply path (137) that supplies the low carbon dioxide concentration gas to the target space (5), and a switcher (76, 78) that selectively supplies one of the high carbon dioxide concentration gas and the low carbon dioxide concentration gas to the target space (5), and

wherein the controller (110) is configured to be capable of supplying the high carbon dioxide concentration gas or the low carbon dioxide concentration gas to the target space (5) by switching the switcher (76, 78).

[Claim 3]

The air composition adjusting device according to Claim 1 or 2,

wherein the carbon dioxide separator (41, 61) includes a separation membrane (85) that separates carbon dioxide from the air-to-be-treated.