DESCRIPTION

BLOWER DEVICE

TECHNICAL FIELD

[0001] The present disclosure relates to a blower device.

BACKGROUND ART

[0002] In order to enhance the realistic feeling of an image displayed on an image display device, there is known a blower device (air conditioner) configured to blow out air (cold wind or hot wind) with temperature controlled in accordance with the image displayed on the image display device from an air blow-out port disposed in the vicinity of the image display device (see, for example, PTL 1).

[0003] In a conventional blower device, air having different environments (for example, temperature and humidity) is prepared using two air conditioning units, and temperature-controlled air is blown from one of the air conditioning units by switching between a plurality of opening and closing dampers. While one of the air conditioning units is blowing air, the other of the air conditioning units prepares for forming air in an environment corresponding to an image to be displayed next on the image display device. Due to this, the blower device is configured to make a rapid environmental change.

Citation List

Patent Literature

[0004] PTL 1: Unexamined Japanese Patent Publication No. H4-212388

SUMMARY

[0005] However, in the conventional blower device, the temperature-controlled air is switched with electrical switch between the fans in the two air conditioning units and electrical switch between plurality of opening and closing dampers. This causes a synchronization deviation between the fan and the opening and closing damper or a synchronization deviation between the opening and closing dampers. As a result, there is a problem that a deviation (error) occurs between the image displayed on the image display device and the timing at which the temperature-controlled air corresponding to the displayed video is blown to the user, and the realistic feeling of the image is reduced.

[0006] The present disclosure provides a blower device capable of improving switching responsiveness of airflows supplied from two air conditioning units. Furthermore, the present disclosure provides a blower device capable of suppressing an error that occurs between a timing at which a video is displayed on an image display device and a timing at which air-conditioned air corresponding to the displayed video is sent to the user, and reducing a possibility that a realistic feeling is impaired.

[0007] In one aspect, a blower device according to the present disclosure includes a first air conditioning unit, a second air conditioning unit, a junction, and a blow-out port. The first air conditioning unit supplies a first airflow from a first opening by the operation of a first blower. The second air conditioning unit supplies a second airflow from a second opening by the operation of a second blower. The junction is configured to allow the first airflow supplied from the first opening and the second airflow supplied from the second opening to join together. Through the blow-out port, an airflow including at least one of the first airflow and the second airflow sent from the junction is blown out into a control space. The junction includes a damper configured to be rotatable by the wind pressure of the first airflow and the wind pressure of the second airflow.

[0008] According to the present disclosure, it is possible to provide a blower device capable of improving switching responsiveness of airflows supplied from two air conditioning units. Furthermore, according to the present disclosure, it is possible to provide a blower device capable of suppressing an error that occurs between a timing at which a video is displayed on an image display device and a timing at which air-conditioned air corresponding to the displayed video is blown toward the user, and reducing a possibility that a realistic feeling is impaired.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] Fig. 1 is a schematic configuration diagram of a video sensory system using a blower device according to a first exemplary embodiment of the present disclosure.

Fig. 2 is a schematic view illustrating an internal configuration in a state where the first blower of the blower device operates and the first airflow circulates.

Fig. 3 is a schematic view illustrating an internal configuration in a state where the second blower of the blower device operates and the second airflow circulates.

Fig. 4 is a schematic view illustrating an internal configuration in a state in which