CLAIMS

1. A humidifier comprising:

a housing (20) formed with an air passage (23) through which air passes and a water storage tank (24) configured to store water;

a humidifying rotor (30) extending over the air passage (23) and the water storage tank (24) and configured to rotate so that a portion of humidifying rotor (30) having absorbed moisture from the water storage tank (24) moves to the air passage (23) and releases the moisture; and

an irradiator (40) configured to irradiate part of the humidifying rotor (30) with ultraviolet light, wherein

the humidifying rotor (30) is formed in a disc shape, and a rotation axis (Q), which is a center axis of the humidifying rotor (30), extends along an air flow direction in the air passage (23),

the irradiator (40) emits ultraviolet light toward an end surface of the humidifying rotor (30) in the air flow direction in the air passage (23),

a portion of the humidifying rotor (30) positioned in the air passage (23) includes a region irradiated with the ultraviolet light and a region not irradiated with the ultraviolet light, and

an irradiation area (R) to which the irradiator (40) emits the ultraviolet light extends in a direction perpendicular to the rotation axis (Q) so that an entire area of the humidifying rotor (30) is irradiated with the ultraviolet light by one rotation of the humidifying rotor (30).

2. The humidifier of claim 1, further comprising:

a controller (73) configured to perform first control,

wherein

in the first control, the controller (73) controls the humidifying rotor (30) and the irradiator (40) so that the irradiator (40) emits ultraviolet light when the humidifying rotor (30) is rotated.

3. The humidifier of claim 2, wherein

if the first control is started when humidifying operation where the humidifying rotor (30) is rotated is in progress, the controller (73) controls the humidifying rotor (30) and the irradiator (40) so that the humidifying rotor (30) keeps rotating and the irradiator (40) starts emitting ultraviolet light.

4. The humidifier of claim 2 or 3, wherein

if the first control is started when the humidifying operation where the humidifying rotor (30) is rotated is not in progress, the controller (73) controls the humidifying rotor (30) and the irradiator (40) so that the humidifying rotor (30) starts rotating and the irradiator (40) starts emitting ultraviolet light.

5. The humidifier of claim 4, wherein

the number of rotations of the humidifying rotor (30) in the first control performed when the humidifying operation is not in progress is less than the number of rotations of the humidifying rotor (30) in the first control performed when the humidifying operation is in progress.

6. The humidifier of any one of claims 2 to 5, wherein

the controller (73) performs the first control every time a predetermined time elapses.

7. The humidifier of claim 6, wherein

the predetermined time is settable.

8. The humidifier of any one of claims 2 to 7, wherein

the controller (73) controls timing of executing the first control according to an environmental condition around the humidifier.

9. The humidifier of any one of claims 2 to 8, wherein

the controller (73) controls an illuminance or irradiation time of ultraviolet light from the irradiator (40) in the first control according to the environmental condition around the humidifier.

10. The humidifier of any one of claims 2 to 9, wherein

the number of rotations of the humidifying rotor (30) is variable, and

in the first control, the controller (73) controls the illuminance of ultraviolet light from the irradiator (40) according to the number of rotations of the humidifying rotor (30).

11. The humidifier of claim 10, wherein

the controller (73) controls the number of rotations of the humidifying rotor (30) according to a humidification load in the humidifying operation where the humidifying rotor (30) is rotated.