CLAIMS

Claim 1:

An air conditioning equipment monitoring device, monitoring a control status of an air conditioning equipment provided with one or more air conditioning systems that comprises: one primary air conditioner and a plurality of secondary air conditioners that take in a part of conditioning air supplied through a duct from the primary air conditioner and control an amount of conditioning air taken in to eliminate an air conditioning load within each air conditioning area, wherein the air conditioning equipment monitoring device comprises:

a data acquisition unit, acquiring air conditioning data;

a storage unit, storing the air conditioning data acquired by the data acquisition unit, room temperature setting data, and air conditioning system data;

a status determination unit, generating determination data based on room temperature data and the room temperature setting data, which are part of the air conditioning data stored by the storage unit;

a first screen generation unit, based on the air conditioning system data, dividing the secondary air conditioners into grouped sections for each of the air conditioning systems on a floor, embedding a section for each of the secondary air conditioners in the grouped sections, and generating a screen with the determination data incorporated in the section for each of the secondary air conditioners; and

a display unit, displaying a screen generated by the first screen generation unit,

wherein the status determination unit generates one of “hot”, “cold”, or “appropriate” labels based on a size of difference value between the room temperature data and the room temperature setting data as the determination data.

Claim 2:

The air conditioning equipment monitoring device according to claim 1, wherein the status determination unit generates one of “stop”, “abnormal”, or “appropriate” labels based on secondary air conditioner status data, which is a part of the air conditioning data, as the determination data.

Claim 3:

The air conditioning equipment monitoring device according to claim 1, further comprising:

a second screen generation unit, summarizing the determination data of the secondary air conditioners belonging to a same air conditioning system and generating a screen for a summary table by air conditioning system, and

wherein the display unit displays a screen generated by the first screen generation unit or the second screen generation unit.

Claim 4:

The air conditioning equipment monitoring device according to claim 1, wherein the first screen generation unit generates a screen using different colors according to a size of difference value between the room temperature data and the room temperature setting data in the determination data.

Claim 5:

The air conditioning equipment monitoring device according to claim 1, further comprising:

a third screen generation unit, generating a screen for detailed information about the secondary air conditioner specified by an external input, and

wherein the display unit displays a screen generated by the first screen generation unit or the third screen generation unit.

Claim 6:

The air conditioning equipment monitoring device according to any one of claims 1 to 5, wherein the first screen generation unit generates a floor screen regarding a floor specified by an external input.

Claim 7:

The air conditioning equipment monitoring device according to claim 6, further comprising:

a fourth screen generation unit, generating a floor selection screen, and

wherein the display unit displays a screen generated by the first screen generation unit or the fourth screen generation unit.

Claim 8:

The air conditioning equipment monitoring device according to claim 6, further comprising:

a fifth screen generation unit, summarizing the determination data of the secondary air conditioners that exist on the floor specified by an external input and generating a screen for a summary table of the determination data of the secondary air conditioners on the floor, and

wherein the display unit displays a screen generated by the first screen generation unit or the fifth screen generation unit.

Claim 9:

The air conditioning equipment monitoring device according to claim 6, further comprising:

a sixth screen generation unit, summarizing the determination data of the secondary air conditioners by floor and generating a screen for a summary table of the determination data of the secondary air conditioners by floor, and

wherein the display unit displays a screen generated by the first screen generation unit or the sixth screen generation unit.