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Notice Regarding the Launch of New Products in the "Ai-Glies" Energy-Saving System, Specialized for Freezers

Ai-Glies Corporation which is a consolidated subsidiary of our company, sells "Ai-Glies," a decarbonization system specializing in air conditioning that it developed in-house. In response to feedback from sales sites and societal needs, we have now developed a new energy-saving system specifically for freezers, expanding the "Ai-Glies" series lineup and beginning sales of this new product.

This system monitors the temperature inside the freezer and automatically performs precise energy-saving control within a range that does not deviate from the standard temperature, thereby enabling both the quality and safety of stored items and energy conservation.

1. Development Background

While electricity prices are rising and demands for environmental considerations are increasing, freezers are required to maintain strict temperature control based on the Food Sanitation Act and HACCP. Uniform control aimed at saving energy raises concerns about the deterioration of food quality and impact on safety due to rising internal temperatures, making "saving energy while ensuring safety" a major challenge. To address these challenges, Ai-Glies has newly developed an energy-saving control function for cold storage warehouses based on a temperature feedback type safety design.

2. Features of the Freezer Energy Saving System

(1) Energy Saving Control: Monitors the temperature inside the freezer and reduces power consumption through precise energy saving control.

(2) Safety Measures:

- Multiple temperature and humidity sensors are installed inside the freezer; if even one sensor exceeds the set temperature, the system automatically returns to normal operation.
- The upper temperature limit and hysteresis (dead zone) can be set arbitrarily.
- In case of sensor or wireless communication malfunction, the energy saving control is immediately stopped and the system automatically returns to normal operation.

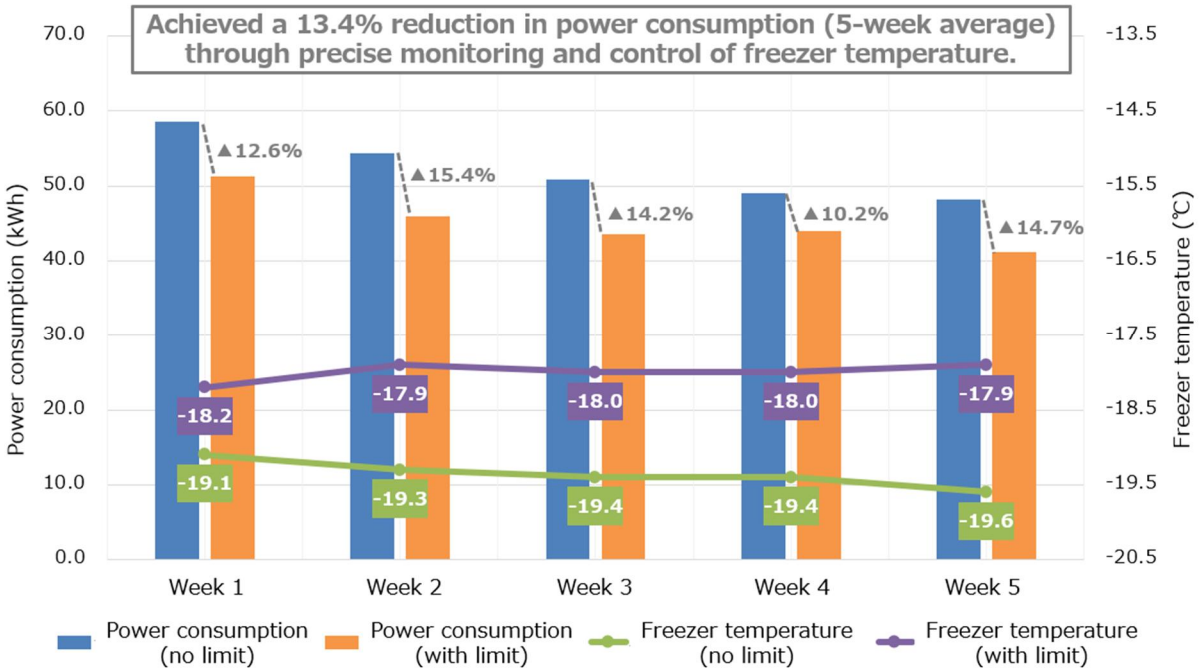
- If the high-voltage wireless control device (AGNI) experiences a wireless reception malfunction, the energy saving control is also stopped and the system automatically returns to normal operation.

(3) Visualization: The temperature inside the freezer and the power usage of the compressor are visualized on a web screen.

3. Effects of Implementation

In fact, after conducting a test installation in a customer's freezer for approximately one year and implementing energy-saving control, we were able to demonstrate an average reduction of 13.4% in electricity consumption, as shown in the chart below.

*We can also provide estimates of electricity cost reductions and CO_2 emission reductions based on data before and after implementation.



4. Month of sales/shipping start : April 2026

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