

**Freeze prevention device
with near-infrared radiation**



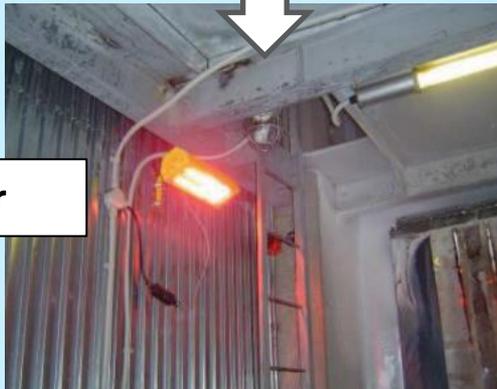
**preventing freezing, frosting,
and condensation**

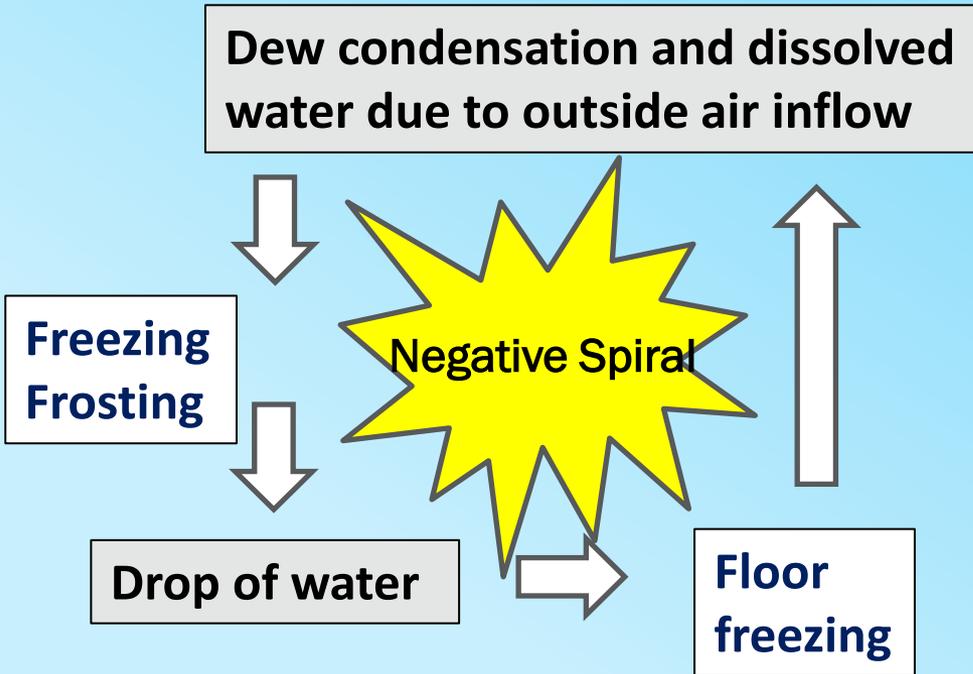
- **Less Operation**...Preventing the freezing, frosting, and condensation.
- **More safety**...Preventing workers from falling and sliding accidents.
- **Low costs • Easy installation**...No need to stop the operation.

Before



After





- Defrosting and floor cleaning required
→Need operator and time
- Increased load on cooling equipment due to frosting
→Degrading the Equipment and cooling efficiency
- Falling accidents due to frozen floors
→Inadequate accident prevention, treated as industrial accidents
- lift-sliding accidents
→Damaged cargo, personal injury

- **How IR Defroster works?**

The IR defroster does not heat the air to melt ice and frost.

It acts directly on water molecules, causing them to **vibrate**, **evaporating**, and **drying** them out. (See Figure 1)

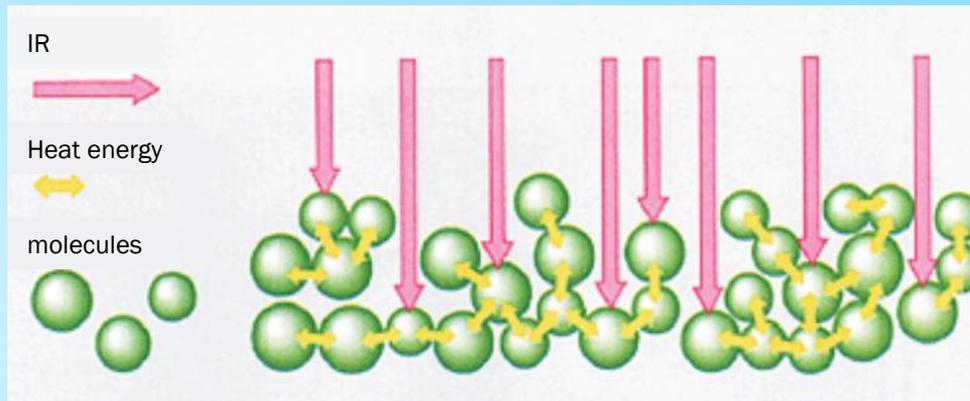
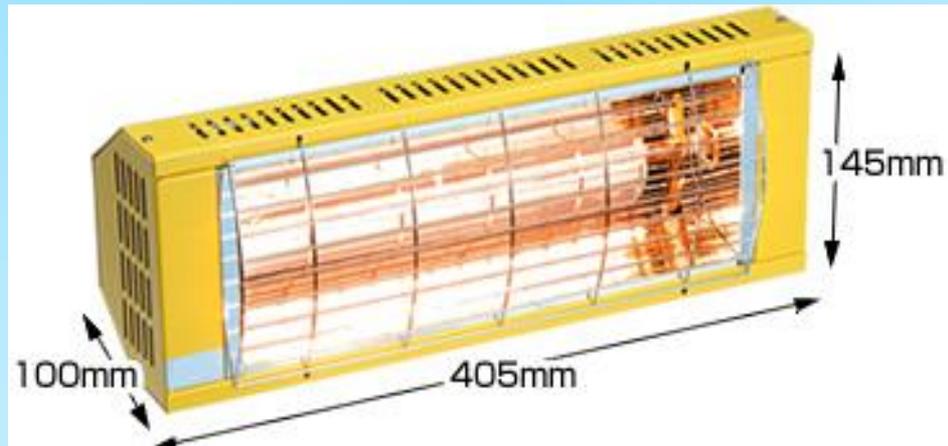


Figure 1.

- **Effects on the human body**

The near-infrared radiations emitted by the IR defroster have a longer wavelength than the visible light wavelength of $0.74 \mu\text{m}$ emitted by the sun, and are **harmless to the human body**.

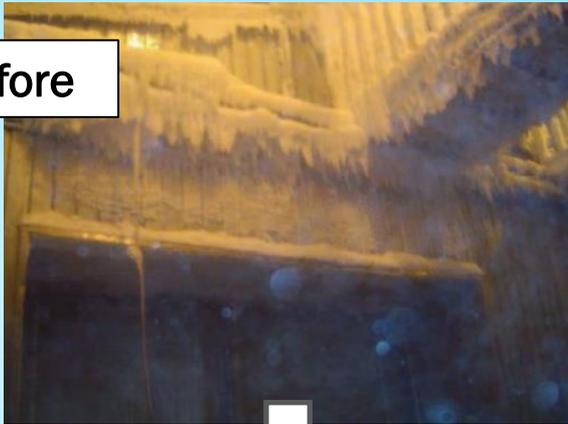
【Size】



【Specification】

| Voltage | 200V | | | | 100V | |
|----------------|-----------------------------|-----------|------------|---------|-----------|----------|
| Model | SRNK1500(Standard) | SRNK2000 | SRNK1100 | SRNK600 | SRNK1000L | SRNK500L |
| Wattage | 1500W | 2000W | 1100W | 600W | 1000W | 500W |
| Lamp | 1500W 7.5A | 2000W 10A | 1100W 5.5A | 600W 3A | 1000W3A | 500W 3A |
| Size | 405(L) x 100(W) x 145(H) mm | | | | | |
| Weight | Approx. 2kg | | | | | |
| Effective area | 4m | 6m | 4m | 3m | 3m | 3m |

Before



After



※1

※1

※1

※1 Because of the old model,
the installation method differs from current model.

Before



After

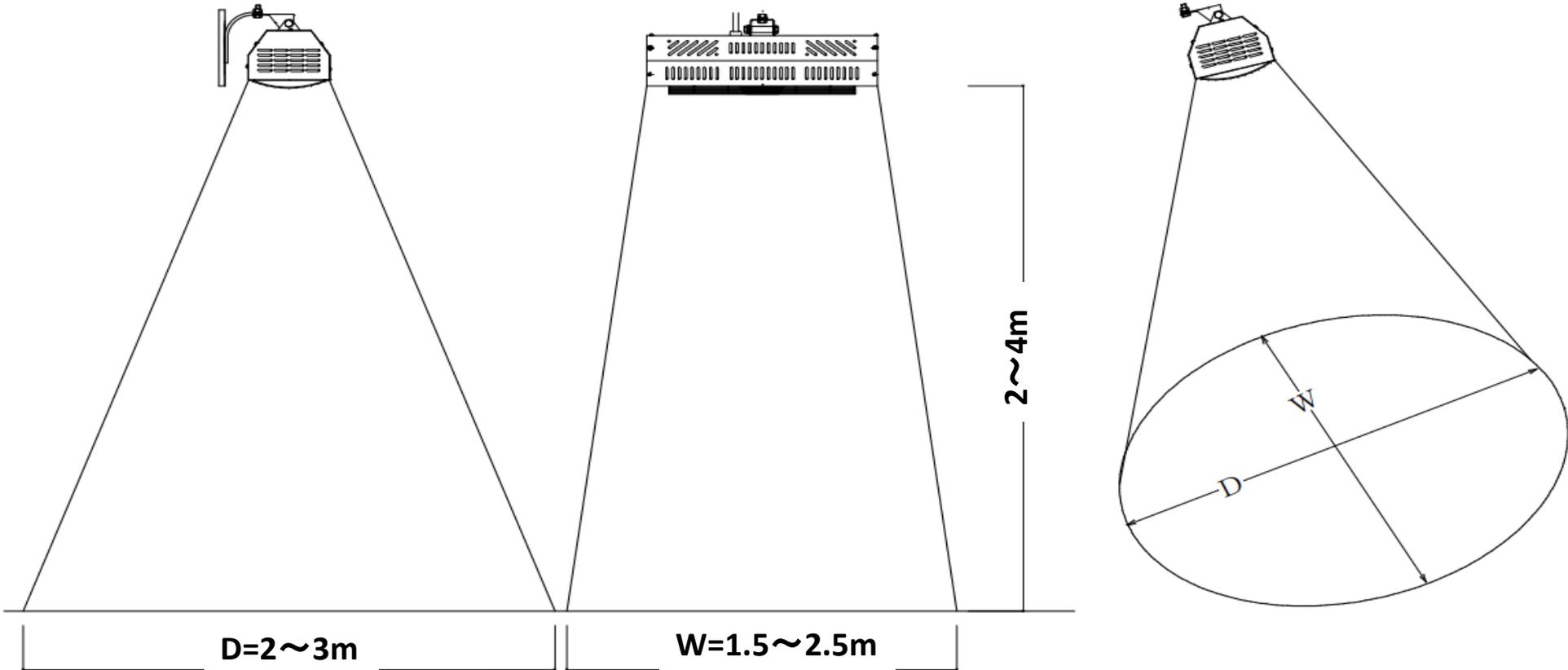


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【Effective Area Image】





FAQ

1. What are the main benefits of IR Defroster?

-It is mainly used to prevent floors from freezing or to prevent frost formation in the refrigerating warehouse. It is effective in preventing slipping accidents, preventing damage to floors, minimizing daily defrosting work, and reducing the running costs of cooling equipment.

2. To prevent the floor from freezing, how high from the floor should I install it?

-Depending on the site conditions, it is generally effective when it is installed at the height of 2 to 4 m above the floor.



FAQ

3. How long is the lifetime of the lamp?

-Depending on the usage conditions, the lifetime ranges from approximately 5,000 to 10,000 hours.

4. Does near-infrared radiation affect the human body?

-It is harmless to the human body.

In fact, near-infrared rays have been used in saunas and medical equipment. However, since the IR defroster has a heating effect, please be careful about installation in environment where there is a risk of ignition, burns, and electric shock.