

# Fog Cooling System

For Multi-split Air-Conditioner Outdoor Units

**Fog** cooling system for air-conditioner outdoor units increases energy efficiency with little water usage.

Power consumption reduced by up to

**10%**



Specifications, appearance and description shown in this leaflet are subject to change without prior notice for purposes of product improvement.

For details please contact IKEUCHI or one of our distributors in your country.



“The Fog Engineers”

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# Becoming a new standard... Fog cooling system for air conditioner outdoor units

## Background

### Problem

Demand for energy-saving options at low cost for air-conditioning equipment

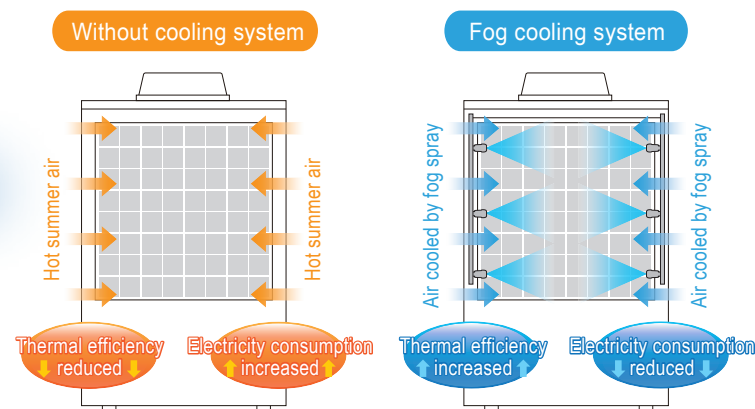
As global warming and power shortages have become serious problems, finding new ways to save energy is an important issue, especially for air-conditioning equipment which can account for the largest share of building electricity consumption.

### Solution

What is an ideal cooling system for air-conditioner outdoor units?

There is a method that can increase air-conditioner efficiency by cooling the outdoor unit with water-sprinkling equipment, but there is the concern about the costs of water consumption and possible water damage to the units.

## IKEUCHI offers an efficient Fog Cooling System for outdoor units



## Features of our Fog Cooling System

### Low water consumption, more efficient cooling

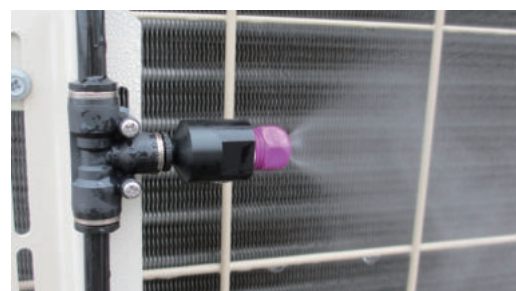
With evaporative cooling, this system increases the thermal efficiency of the outdoor unit, which reduces electricity consumption. By providing the optimal spray droplet size for cooling air-conditioner outdoor units, water consumption is reduced compared to the water-sprinkling method, resulting in more efficient cooling.

### Automatic control available

It is possible to control the spraying time with automated control based on outdoor temperature and/or other external signals, or a simple ON/OFF timer cycle to meet our customers' needs.

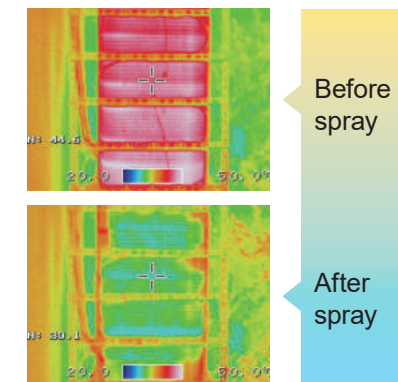
### Reliable nozzle performance

IKEUCHI has leading technology and know-how earned over decades of experience as a specialty maker of industrial spray nozzles. That is why our quality-guaranteed spray nozzles can create the fog spray with the optimal droplet size.

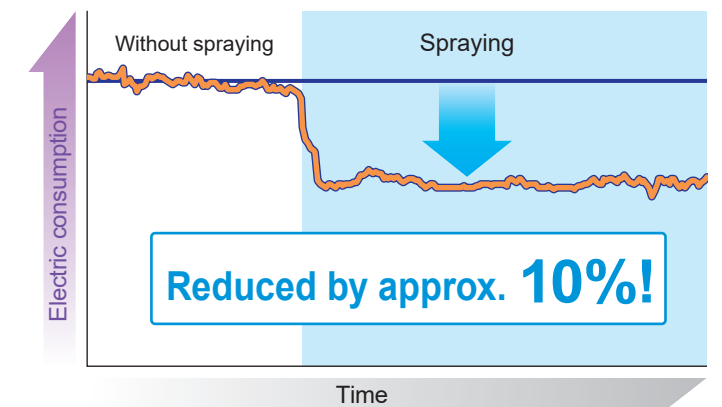


## Energy-saving Results from our Fog Cooling System

### Thermography measurement of outdoor unit fins



### Electricity consumption reduced by Fog Cooling System



Outdoor temperature: 35°C DB, Indoor temperature: 27°C DB/ 19°C WB  
Spray condition: Continuous spraying

## Installation Image

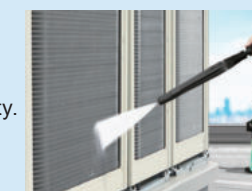
This system brings results even in a case where many outdoor units are closely spaced.

Please inquire with us for any questions on how to install and maintain the system.  
Detailed information and materials are available.



### Scale adhesion to outdoor units

Impurities in water may adhere to fins of outdoor units as scaling depending on supply water quality. In such case, cleaning the fins regularly with a high-pressure washer is recommended.



### To prevent rust on the fin

If using tap water, spraying anti-rust agent on the fin is recommended to prevent rust.