06/20/2007 Mori Building Co., Ltd.

Energy-saving "Dry Mist" Outdoor Cooling System at Roppongi Hills 2007 Summer Service Begins

Seeking innovative ways to enhance the comfort of Roppongi Hills visitors while promoting energy saving, Mori Building Co., Ltd. (headquarters: Minato-ku, Tokyo; President and CEO: Minoru Mori) introduced an automatically controlled energy-efficient "Dry Mist" cooling system in the summer of 2006. This summer the system began operation on June 20 (Wednesday) in response to conditions*.

* Conditions for activation of "Dry mist" cooling system: ambient air temperature: 27.5°C or higher, outdoor relative humidity: under 70%, wind speed: under 4m/s, no precipitation.

The "Dry Mist" system uses nozzles to spray a mist of water droplets so small that there is no sense of sticky moistness, and the cooling produced by their near-instant evaporation has a pleasant "healing" effect similar to the refreshing coolness found in a forest.

*See the next page for the main features of the system.

(Reference) Results of measurement of actual system performance and a visitor survey undertaken in summer 2006.



"Dry Mist" cooling system

at Roppongi Hills



Main Features of the "Dry Mist" System

2~3°C Cooling Effect

Applying the principle of transpiration – the same phenomenon of water evaporation from trees and shrubs that results in reduced temperatures, this system can produce a 2~3°C drop in temperature within the "mist" area by the flash evaporation of microscopic water droplets sprayed from nozzles.

Fine Mist with Virtually No Sense of "Wetness"

Composed of water droplets that are a miniscule 16µm (16/1000mm), the mist volume is calculated to produce the effect of the equivalent of a grove of camphor laurels. In order to create this refreshing coolness, the sprayed mist is completely "flash" vaporized, resulting in virtually no sensation

of wetness on the clothing or skin.

Automatic Operation

Using automatic control based on metering of the ambient meteorological conditions, a comfortable environment is maintained.



Roppongi Hills "Dry Mist" Operation Conditions

	Conditions	Conditions for
	for	Operation
	Operation	End/Suspension
	Start	
Ambient	27.5°C or	25.5°C or lower
Temperature	higher	
Relative	under 70%	75% or higher
Humidity		
Wind Speed	under 4m/s	4m/s or higher
Precipitation	No	Yes
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Energy Efficient

Using only approximately 1/30th of the electrical power that would be consumed by a conventional air conditioning system. The "Dry Mist" system places a light burden on the environment, and is attracting increasing attention as a next-generation "energy-saving" cooling alternative.

Safe for Both People and Pets

Because clean, sanitary city water is used to generate the mist, the system is harmless to both people and pets.



"Dry Mist" system Specifications

Location: Approx. 30m section on the 66 Plaza bloc Installation Sites: Units with height of 3.5m above ground level are installed at intervals of approx. 3m (Total units: 9) Effective Area: approx. 180 m² Operation Period: In 2007, June 20 ~ October 31 (planned) (In2006, July 9 ~ October 3) Operation Time 8:30-18:30

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