



**AllGard™ Surface Care LLC**  
**Product Review**

**MaxR100™ Commercial Air Conditioner Treatment**

**Removing Latent Heat (Moisture)**

A building's air conditioning system is responsible for removing moisture from the air in order to provide for both human comfort and mold-and-mildew control. Inside the air conditioner, warm moist air is blown through a cooling coil. In the coil, the air is cooled below its dew point temperature.

The dew point temperature is defined as the temperature of the air when the relative humidity is 100 percent. Relative humidity is defined as the amount of moisture in the air relative to the most moisture the air can hold at the same temperature.

As air is cooled it loses its ability to hold moisture. So, relative humidity is increased by cooling the air, as well as by adding moisture to it. For example, as the air cools on a muggy night the relative humidity increases. When the relative humidity reaches 100%, the air has been cooled to its dew point and dew forms on surfaces.

Similarly for the air conditioner, once the air is cooled below the dew point, the air releases moisture which collects in a drain pan, and drains out of the system. The cooled and dried air is delivered to the building. The air now has a lower dew point called the exit dew point.

Relative Humidity is often in and above the 70% range. Humidity levels this high provide the ideal environment for the formation of mold spores and mildew.

By naturally reducing the moisture content in your building's air, you will provide operators with a climate free of moisture-borne allergens, mold and mildew. The results are safer, healthier air, energy savings, less maintenance and improved comfort.

**Manufacturer's Note:** The use of MaxR100™ will reduce the air humidity by up to 50%.



**For more information about MaxR100™, contact us at [info@allgardsc.com](mailto:info@allgardsc.com)**