

* Water Damage Mitigation Drying Technology

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* History of Water Damage Mitigation

* History

* Industry Standards

* Technology

* Training

* Pre-Qualifying Mitigation Contractors

- * Capability

 - * Knowledge

 - * Equipment

- * Response Times

- * Performance

 - * Ability to *restore*, rather than remove and replace

- * Customer Service

* Drying Technology

* In-Place Drying with Low Grain Refrigerant Dehumidifiers

* Desiccant Drying

* Heat Drying

*Perspective

1. What method will save the most materials?
2. What method will dry the quickest?
3. What is the most cost effective method?

* Flood Houses



* Diagnostic Equipment

* Thermo-Hygrometers

* Moisture Meters

* Thermal Imaging

* a_w - Water Activity

* Moisture Content

* Quantitative amount of water in a sample on a wet or dry basis. An extensive property that depends on the amount of material.

* Water Activity

* A measure of the energy status of the water in a system. A intensive property that does not depend on the amount of material.

*Ways to Express Water Activity

$$a_w = \frac{\text{Vapor pressure of water above sample @ } ^\circ\text{C}}{\text{Vapor pressure of pure water @ same } ^\circ\text{C}}$$

$$a_w = \text{ERH (\%)} / 100$$

- Water activity, not water content, determines the lower limit of available water for microbial growth.

* New Era in Water Damage Mitigation Industry

* Better Technology

* Development of Standards

* Use of Science

* Better Documentation

* Education is the Answer

* Business

* Educators

* Communities

Working Together!