

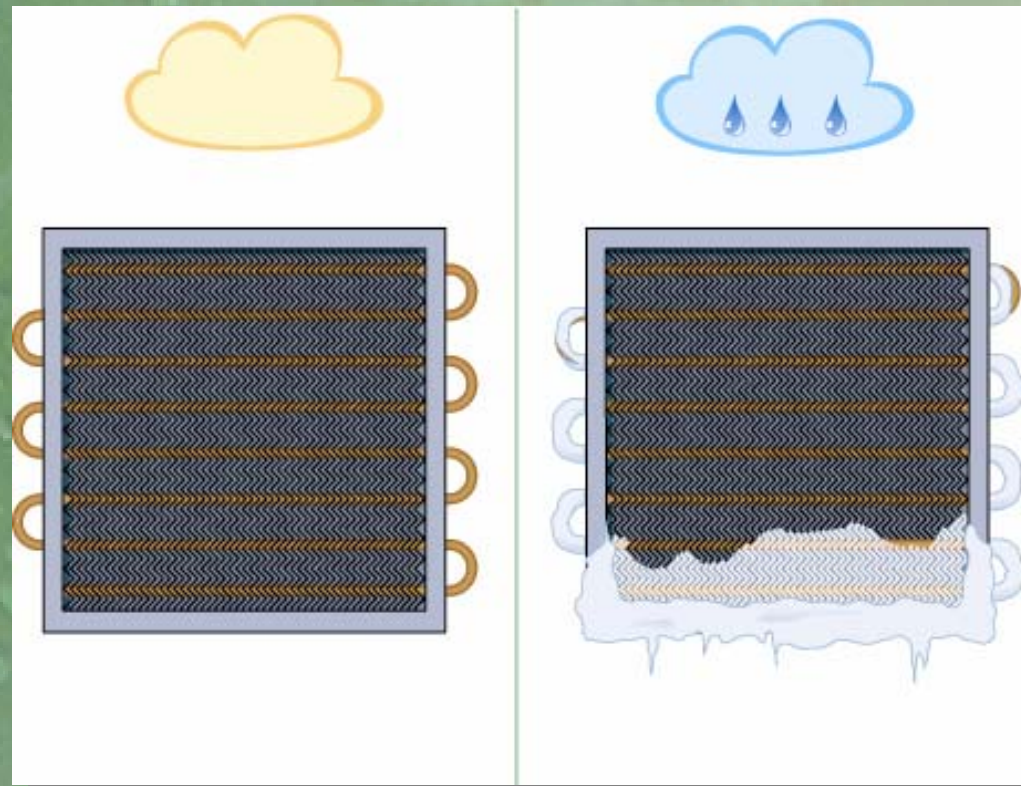
Moisture damage causes

presented by
Seibu Giken DST AB
"The Dry Air Specialists"

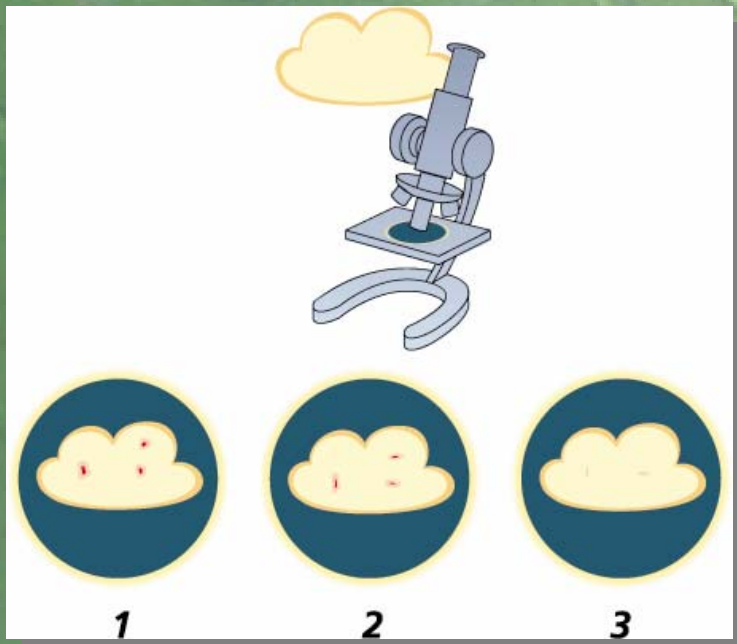
Condensation: A surface will not have condensation on it if the air in contact with it has a dewpoint lower than the surface temperature.



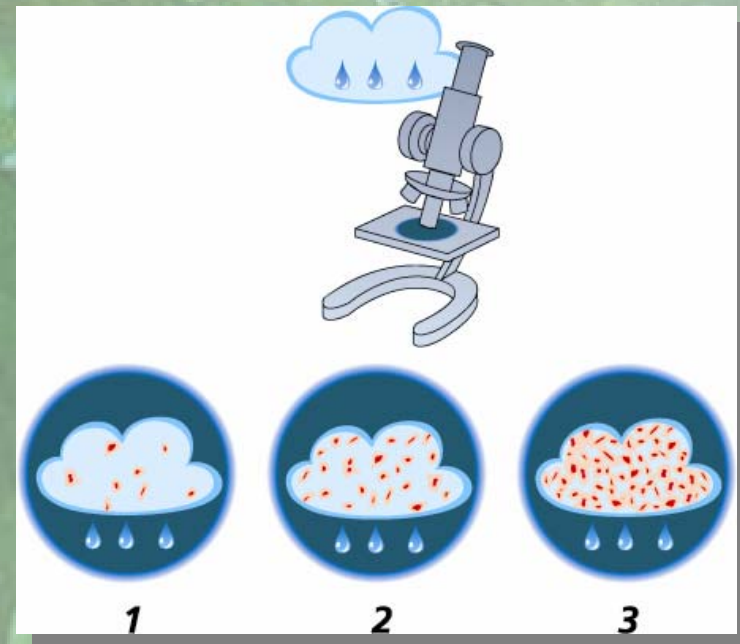
Ice formation: A surface will not have ice formation on it if the air in contact with it has a dewpoint lower than the surface temperature.



Bacteria: Bacteria needs humidity to survive and multiply. Most bacteria will not find a suitable environment if the Relative humidity is kept below 50%RH.



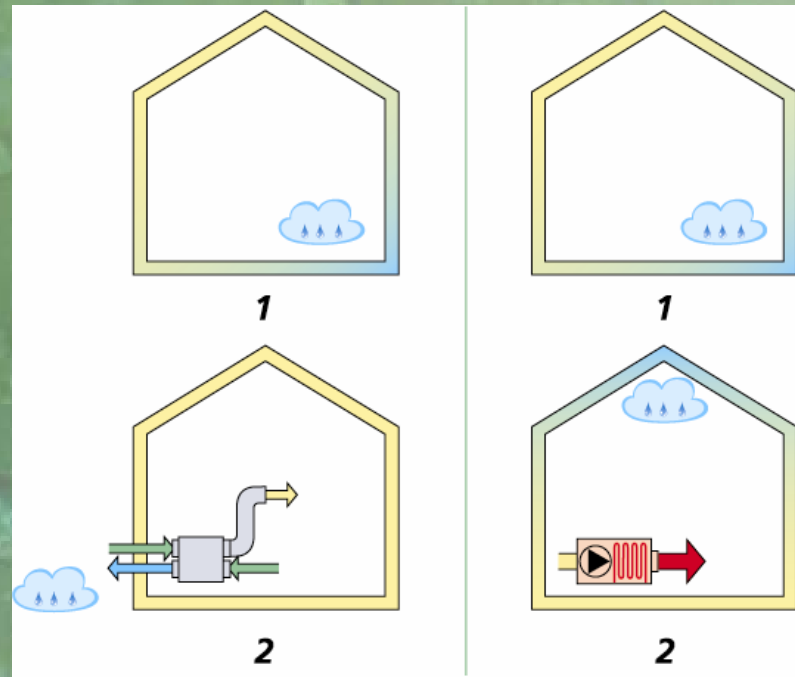
$\phi < 50\%RH$



$\phi > 50\%RH$

Drying out buildings: Heating will only move the moisture to another part of the building.
With sorption dehumidifying, the moisture is removed.

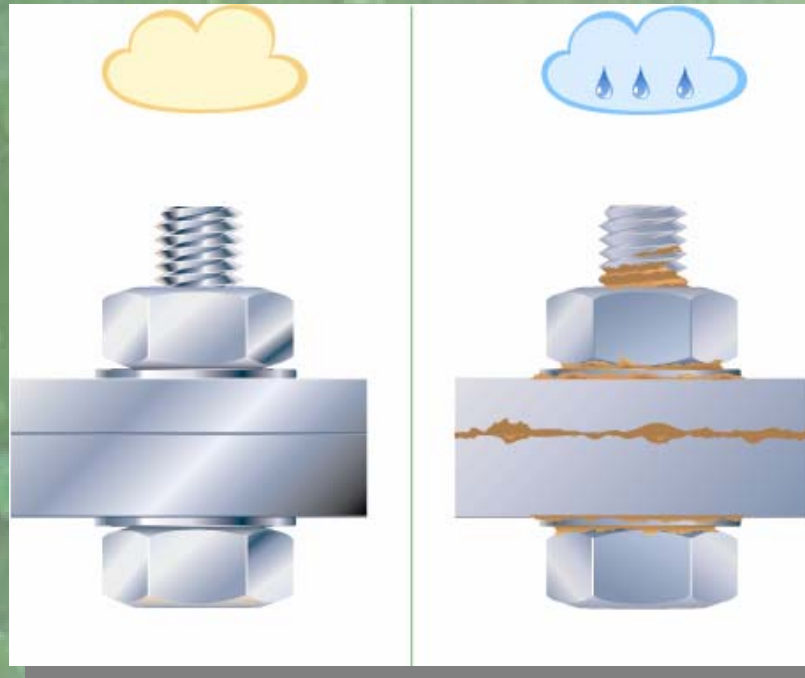
Dehumidifying



Heating

Corrosion: Iron and steel doesn't rust if the air over the surface has a relative humidity below 50%RH.

$\phi < 50\%RH$

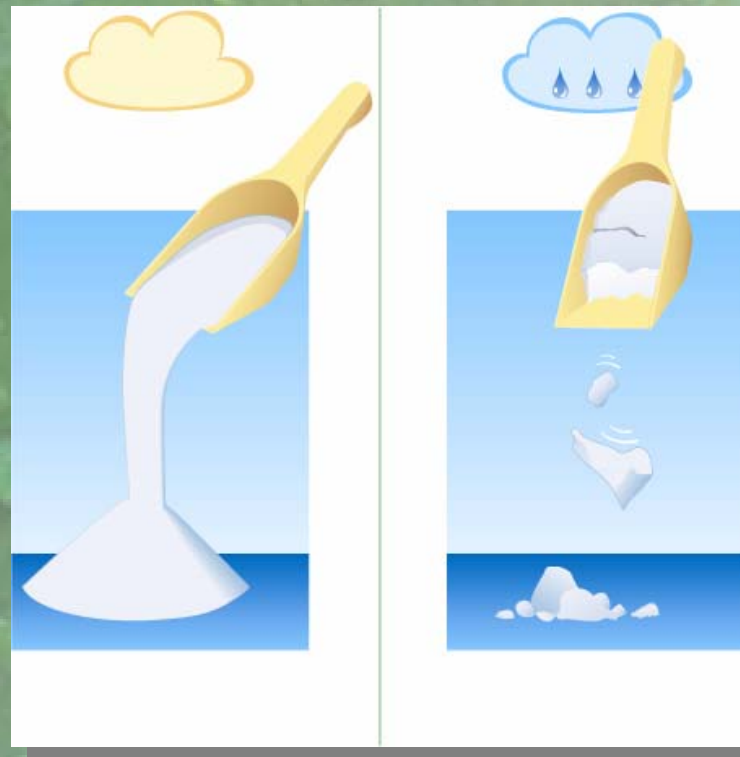


$\phi > 50\%RH$

Handling of hygroscopic material:

The quality of dry drugs, dry food, hard candy and other hygroscopic material can only be maintained if the relative humidity is kept below a certain level.

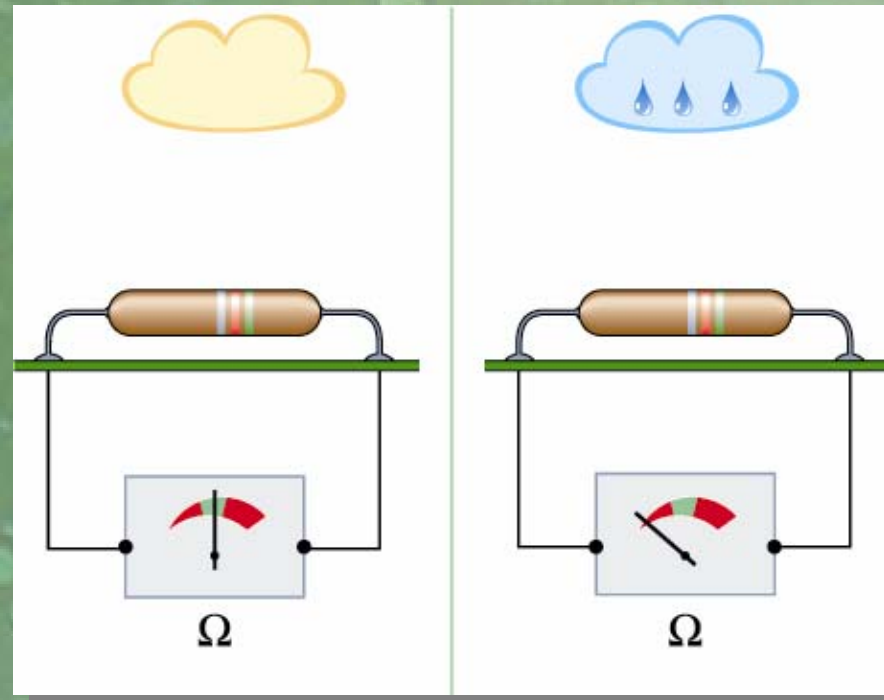
$\phi < 50\%RH$



$\phi > 50\%RH$

Electronics:

The characteristics of electronic products are changed at a high relative humidity.

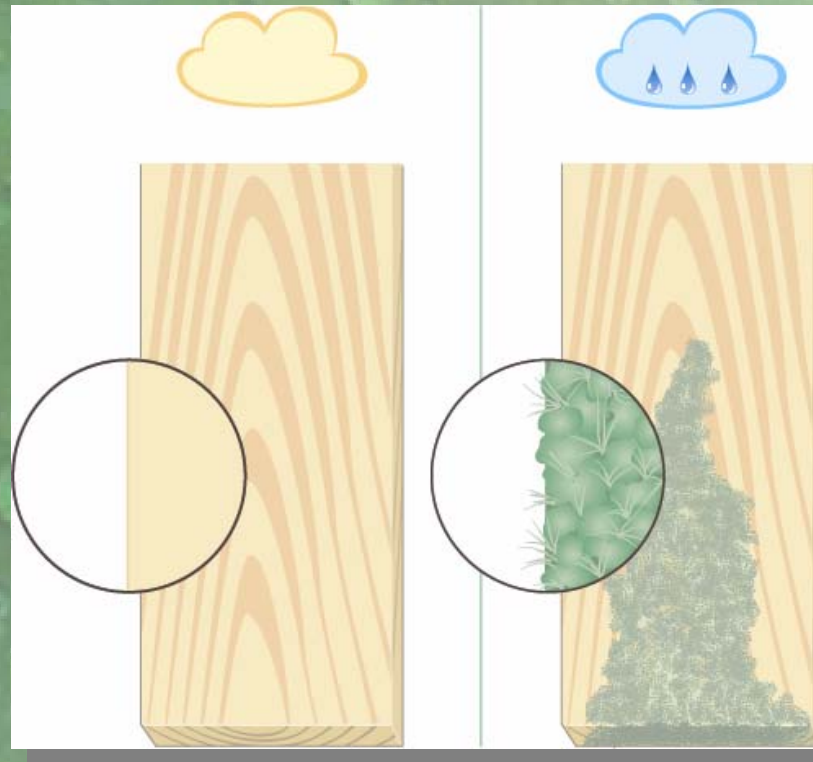


$\phi < 50\%RH$

$\phi > 50\%RH$

Mould: Mould and fungus formation is prevented if the surrounding air is kept below 70%RH.

$\phi < 70\%RH$



$\phi > 70\%RH$

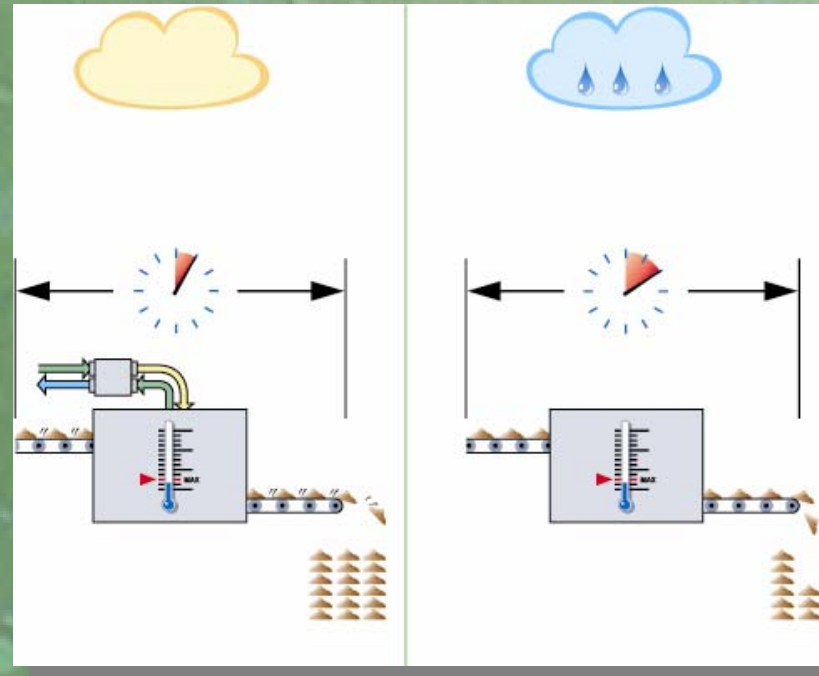
Odours: Bad smell will be drastically reduced if the relative humidity is kept below 50%RH.



$\phi < 50\%RH$

$\phi > 50\%RH$

Product drying: When drying products a low relative humidity is essential for a fast process.



Dehumidifying No dehumidifying

Thank you for your
attention!

You can find out more about us at
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