Reasons for Humidity Control in Residential Construction

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These are a few examples of Mold Problems
Causes

- Condensation
  - On Ducts
  - On Equipment
  - On Light Fixtures
  - On Windows

- Water Intrusion
  - Roof Leaks
  - Window Leaks
  - Site Drainage
  - Pipe Leaks
Causes of Elevated Indoor Relative Humidity

– Energy Conservation
– Infiltration
– Building Exhaust (ICC- Code Required)
– Duct Leakage
– Thermostat Settings
– High SEER System
Infiltration Sources

- Recessed Light Fixtures
- Windows
- Doors
- Pocket Doors
- Power Attic Ventilation
- Interstitial spaces communicating with ventilated attics
- Storm shutters
- Holes in top plates for electrical and plumbing
Problem Times

– Nights
– Spring & Fall
– Warm humid days in winter
– Really cold days
Systems That Dehumidify

– Two speed compressors with variable or multi speed evaporator fans
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– Independent humidifiers
– Outside air in winter
Recommended System