



DATA HALL HUMIDITY AND DEW POINT

Applies to: data halls and IT rooms cooled by CRAC or CRAH units, with or without humidifiers. Your site's operating procedures come first.

■ On-site team (outside the panel) ■ Stop and call ■ Qualified technician or electrician ■ What VO shows

A WHAT YOU SEE IN THE BAS

EXAMPLE READOUT

Data hall temp **72.0 °F**
Data hall RH **69 %**
Dew point **61.2 °F**
CRAH-01 humidifier **ON**

Dew point tells you how much moisture is in the air. It is the better number to watch.

B POSSIBLE CAUSES

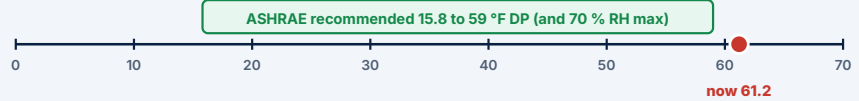
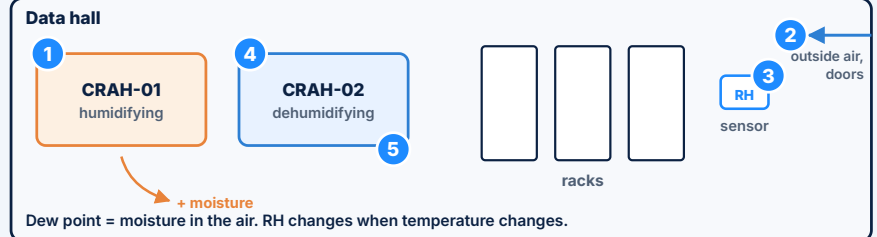
- 1 **Humidifier** on or stuck on.
- 2 **Outside air or doors** letting in wet air.
- 3 **Sensor** drifted or badly placed.
- 4 **Units fighting:** one adds moisture, another removes it.
- 5 **Coil too warm** to remove moisture.

D POINTS TO CHECK, IN ORDER

- 1 **Is the dew point (not just RH) outside the site's limit?**
Recommended (ASHRAE 2021): 15.8 to 59 °F dew point and 70 % RH max.
- 2 **Is one unit humidifying while another dehumidifies?**
- 3 **Are doors, outside air dampers or an economizer open, or is it humid outside?**
- 4 **Do two sensors in the same area agree?**

C WHERE THE MOISTURE COMES FROM

Dew point scale (°F)



STOP AND CALL

- Water or condensation on equipment, floors or under racks.
- Dew point near or above the cold-aisle supply temperature.
- Humidity alarms on several units at once.

QUALIFIED TECH CHECKS

- Sensor against a calibrated reference.
- Humidifier valve, canister and controls.
- Unit humidity setpoints and deadbands, unit teaming.

IN VO

Matches finding **RH_OVER_LIMIT** · **Part type:** humidity sensor, or humidifier valve or canister · **Part number (site to fill in):** _____. VO reads your system and never changes a setpoint or command on its own.

Safety: The on-site team uses only devices outside the panel: the hand-off-auto switch, the drive keypad, and an overload reset reachable through the door. Lock out and tag out before opening a panel or touching rotating parts. Never bypass a smoke, freeze or high-static safety. Voltage, current and resistance measurements are for a qualified technician or electrician.

Educational reference only. AI can make mistakes. Follow site procedures, safety requirements and manufacturer instructions.

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Please call your preferred electrical or mechanical contractor if needed.

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