

Solve your oversized system problems with the Rawal APR Control

too humid?
too cold?
too hot?

Rawal APR Applications

COMFORT/IAQ

RELIABILITY

ENERGY EFFICIENCY

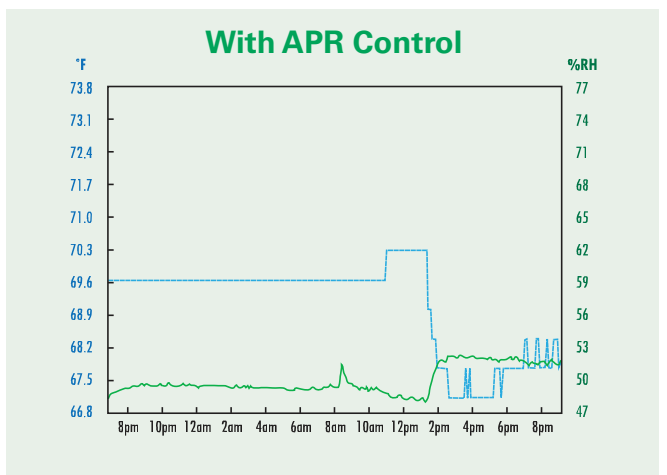
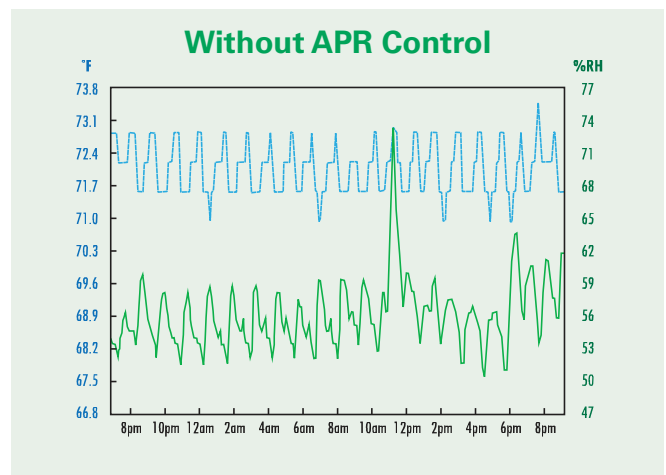
What it does for you

- Constant area temperature
- Stabilized humidity control
- Longer equipment life
- Reduced likelihood of equipment failure
- Reduced operating costs
- GREATER COMFORT

How it does it

- Modulating capacity
- Continuous dehumidification
- Eliminate excessive cycling
- Elimination of coil freeze
- Greater energy efficiency
- Constant temperature and stabilized humidity

These graphs show actual temperature and humidity readings from two rooms with identical load characteristics at the Sheraton World Resort, Orlando, FL. Both rooms had identical GE 9,000 BTU/hour DX PTAC units. One unit was fitted with an APR Control; the other was not.



■ Temperature ■ Humidity



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Did you know the APR is “Green”?

Conserving natural resources

- The APR Control reduces wear and tear on compressors by reducing the number of “starts” and extending run time (at lower power)
- There is virtually no maintenance necessary following installation
- The operational life of a Rawal APR device is around 16 years

Avoiding emissions

- Rawal Controls conform to new, non-ozone-depleting hydrofluorocarbon refrigerants

Energy savings

- Testing performed at UL in Dallas, TX, showed that the EER of an AC unit with an APR Control was approximately 12% greater than a unit with standard hot-gas bypass
- The APR Control modulates systems operating in part load, reducing the need for reheat. Since humidity levels are constant and low, thermostats can be set at a higher temperature resulting in similar comfort levels. The US DOE estimates that each degree of temperature increase (when cooling) translates into 5% to 7% of energy savings.

Contributing to a healthy environment

- The APR device helps HVAC systems maintain constant levels of humidity and proper fresh air ventilation resulting in improved indoor air quality (IAQ). When using standard systems, the humidity levels fluctuate due to design features.

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