

An **ENERGY EFFICIENT** system providing **total** humidity and temperature **control** wrapped up in a nice cost effective package.

AAON D-PAC controls both humidity and temperature accurately and more efficiently than chilled/hot water systems at a fraction of the cost.



D-PAC



The Competition

- Limited cooling stages used for temperature control.
- Humidity is uncontrollable with only a dry bulb thermostat, especially during ventilation mode when compressors cycle off.
- On/Off hot gas reheat alone will cause unnecessary dehumidification and supply air temperature swings.

The Patented Digital Precise Air Control System

As space temperature changes the **AAON D-PAC CONTROLLER** modulates the **DIGITAL SCROLL COMPRESSOR** from 10–100% of its variable cooling capacity in order to maintain the space temperature setpoint.

As space humidity rises, the controller modulates the Digital Scroll compressor's capacity to maintain a lower evaporator coil temperature to maximize dehumidification and meet the space latent load. The controller then modulates a **RETURN AIR BYPASS** damper, diverting return air around the evaporator coil to match the space sensible load. Finally, after the return air bypass is fully open, the controller uses **MODULATING HOT GAS REHEAT** to maintain space temperature.

Advantages

- Complete comfort, temperature AND humidity control
- Modulating compressor, bypass damper, and reheat work together to match all space load conditions
- Improved indoor air quality
- Cost-effective self-contained package unit
- Energy-efficient operation, minimum amount of cooling and reheat used
- Factory-installed energy recovery wheel available to improve energy efficiency

CONTACT YOUR LOCAL AAON SALES REPRESENTATIVE

for more information about D-PAC and other AAON controls options-including VAV, CAV, and Makeup Air.



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