



The APR Control®

Transform any standard DX Air Conditioning system into a variable capacity system!

The APR Control provides continuous capacity modulation for any standard DX system, solving many of the issues that come with commonly oversized systems. The APR is a ***completely mechanical*** device that responds to suction pressure, thus able to properly match the system capacity to the ever-changing load and space requirements. Our valve has had proven success for improved system performance in both new and existing equipment.

Why you would use it?

Performance: Eliminates short cycling by increasing the compressor runtimes for better latent cooling performance, resulting in greater indoor comfort and improved indoor air quality.

Value: It is a cost-effective add-on device providing better temperature and humidity control while offering low pressure compressor protection.

Simplicity: Ease of installation, troubleshooting and commissioning.

Compliant: Meets ASHRAE 90.1 standard of continuous capacity modulation.

The APR Control has yielded success amongst a wide variety of applications such as:

- Schools (*Early education to college facilities*)
- Process Manufacturing Facilities
- Hospitals (*Surgical Suites*)
- Labs (*Cleanrooms*)
- Retail Spaces (*Shopping Malls to Restaurants*)
- Office Spaces (*Utilizing single or multi zone VAV systems*)
- Data Centers



The APR allows you to achieve optimal system performance while providing modulation for all sizes and configurations of air conditioning systems – yielding long term benefits. By matching system capacity to continuously changing load conditions, an APR Control® - enhanced system is able to maintain better comfort, as well as provide a number of unique solutions that standard DX air conditioning systems are unable to achieve.

Have an application you wish to discuss or simply want to learn more? Speak with our Technical Sales Support Team today!

Call: (800) 727-6447

Email: Sales@rawal.com

Visit: www.Rawal.com



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The APR-E Valve™

Achieve the performance of a chilled water system while on a DX budget!

The APR-E offers capacity modulation on any fixed compressor system to a precise discharge air setpoint. This Rawal valve is an **Electrically driven, Electronically controlled** external compressor unloader providing modulation on any single or multi stage DX system. The APR-E can be easily integrated into an existing BAS/BMS or act as a stand-alone controller for any New or Retrofit applications.

Why you would use it?

Performance: Achieve superior system performance with precision discharge air control within 1° deviation from setpoint.

Value: Cost is key. Obtain the versatility of a chilled water system and other high-priced modulating technologies while still remaining budget friendly.

Simplicity: Ease of installation, commissioning and troubleshooting.

Compliant: Meet energy code demands and maintain control to Dew Point for temperature stability in critical applications (*labs, cleanrooms, etc.*).



The The APR-E Valve has yielded success amongst a wide variety of applications such as:

- VAV Systems
- Make-Up/ Dedicated Outside Air Systems (*MUA/DOAS*)
- Chillers
- Labs/Cleanrooms (*Ex: Pharmaceutical*)
- Hospitals (*Surgical suites and Medical Storage*)
- Manufacturing Facilities

SUCCESS STORY - ASHRAE Test Lab Facility:

“Precise discharge air control was much needed for the ASHRAE Test Lab in a tightly controlled environment. By utilizing the APR-E® modulating technology on a single stage, constant speed compressor, integrated and programmed into our BMS controls, we were able to maintain a deviation from setpoint of no more than +/- 1°F in the testing environment suite which consists of 4 cleanrooms of air cleanliness from ISO Class 8 through Class 1.”

Wei Sun, P.E.
President of Engsysco
Principal Investigator for ASHRAE Research Projects

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