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 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 Engysco
Principal Investigator for ASHRAE Research Projects

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