

# SERIES 200



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## BROCHURE

### PRODUCT OVERVIEW

The Series 200 is an independent air control valve designed for precise, maintenance-free airflow management and seamless integration with third-party control systems. Utilizing CRC's patented CLV air valve technology, it delivers industry-leading performance with exceptionally low pressure drop and a wide operating range of 0–7,800 CFM, maintaining  $\pm 5\%$  airflow accuracy across its entire range. Equipped with full network connectivity, the Series 200 ensures reliable and efficient airflow control with streamlined system compatibility.



### APPLICATIONS

- Hospitals
- Laboratories
- Manufacturing facilities
- Vivariums
- Supply air
- Exhaust air
- Snorkel and canopy hood exhaust
- Corrosive environments
- Anywhere maintenance free precision airflow control is required

### SERIES 200 OPERATION MODES

- **Variable Volume:** Adjusts and maintains a precise airflow setpoint based on an external analog signal.
- **Constant Volume:** Regulates a fixed, single airflow setpoint for consistent performance.
- **Dual Setpoint:** Switches between two discrete airflow set points, controlled by an external relay signal.

### KEY FEATURES

- **Commissioned Accuracy:** Airflow accuracy of less than  $\pm 5\%$  with a minimum of 10 to 1 turndown.
- **Energy Efficient:** Low-pressure-drop design supports static pressures as low as 0.25 inches WC, reducing operating costs.
- **Patented Indirect Sensing Technology:** Maintains unobstructed airflow paths, resistant to duct-borne contaminants.
- **Flexible Installation:** No inlet/outlet restrictions, with unrestricted mounting orientation and axis installation options.
- **Advanced Damper Design:** Engineered for precise airflow control and superior damper authority, with the capability for full closure
- **Long-Term Repeatability:** Delivers consistent performance with no scheduled maintenance required.
- **High-Capacity Airflow Range:** Supports airflow rates from 0 to 7,800 CFM.
- **Durable Construction:** Built for both corrosive and non-corrosive environments, with stainless steel construction and optional protective coatings for extreme conditions.
- **High-Speed Actuation:** Compatible with both Fail-Safe and Fail-In-Place operation modes for rapid response.
- **Multiple Actuation Options:** Configurable for high-speed actuation to meet various control needs.
- **Fail-Safe & Fail-In-Place Modes:** Provides dependable operation under diverse conditions.

## PRODUCT OVERVIEW

### SERIES 200 APPLICATIONS

The Series 200 is designed to support multiple airflow control applications, including:

- **Variable Volume:** Modulates airflow based on an external control signal.
- **Constant Volume:** Maintains a fixed airflow setpoint.
- **Dual Setpoint:** Switches between two predefined airflow setpoints.

### SERIES 200 OPERATING MODES

#### VARIABLE VOLUME

When set to Variable Volume mode, the Series 200 air valve modulates airflow to maintain a setpoint based on a hard-wired scaled voltage signal, typically provided by a Building Automation System (BAS) controller.

- The input signal can be configured for 0-5VDC, 2-10VDC, or 0-10VDC.
- The corresponding airflow setpoint range is determined by the valve size.
- A purge setpoint can be optionally configured.

#### CONSTANT VOLUME

When set to Constant Volume mode, the Series 200 air valve maintains a fixed airflow setpoint at all times.

- The setpoint can be adjusted via the touchscreen interface or BACnet®.
- An optional purge setpoint can be configured.

#### DUAL SETPOINT

In Dual Setpoint mode, the Series 200 air valve regulates airflow to maintain either a primary (Setpoint A) or secondary (Setpoint B) airflow setpoint.

- A hardwired digital input, such as an externally supplied switch, can trigger the transition between setpoints.
- Setpoints can be adjusted via the touchscreen interface or BACnet®.
- An optional purge setpoint can also be configured.



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**Measure What Matters.**

Critical Room Control  
9275 North 49th Street  
Brown Deer, WI 53223

414.324.8978  
Sales@criticalroom.com