Phoenix Controls MicroServer provides seamless integration for medium to large-scale Projects. Present data and access to setpoint variables for up to 1500 devices through a single BACnet server.

Phoenix Controls MacroServer provides seamless BACnet integration with the MicroServer solution for small to medium-size lab spaces. Setpoints and data points for up to 35 devices are presented to the BMS through a single BACnet server.

BACnet Integration with the MicroServer

BACnet Integration with the MacroServer

Founded in 1985, Phoenix Controls high-performance airflow controls drive energy efficiency across all platforms in any environment. Our innovative airflow control solutions combine safety and performance with value and energy savings. Customers include leading pharmaceutical companies, universities, hospitals, government research facilities, and global corporations.

The Phoenix Controls Quality Management System is registered to ISO 9001:2015. Phoenix Controls air stations are NVLAP Accredited (a program administered by NIST) to ISO/IEC 17025:2005 standards. Every one of our valves is calibrated on an accredited air station to ensure you get the specification you ordered and the performance you need.

Our Core Values

- **Excellence**: Applying high standards for quality as we relentlessly pursue excellence in our work, products, and service to customers.
- **Integrity**: Acting with honesty, fairness, and ethical behavior; accountable by taking ownership of our actions and meeting our commitments.
- **Creativity**: Our inspiration comes from an environment that embraces learning, experimentation, and innovative thinking - the cornerstones of our organization.

**VALIDATION**

Phoenix Controls Celeris (HSV/HEV) valves are certified for OSHPD Seismic Certification Pre-arrival per 2013 CBC, 2012 IRC, ASCE 7-10, and BC ES-AC-166. OSHPD Special Certification number OSP-0290-10.* Vertical applications approval pending.

**NVLAP Accredited (Lab Code 200992-0)**

Phoenix Controls air stations are NVLAP Accredited (a program administered by NIST) to ISO/IEC 17025:2005 standards. Every one of our valves is calibrated on an accredited air station to ensure you get the specification you ordered and the performance you need.

For additional information and a listing of our global offices, please visit our Web site at www.phoenixcontrols.com or call (800) 340-0007.

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*Vertical applications approval pending.

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Celeris” is a platform of high-performance variable Air Volume (VAV) airflow control valves for fume-hood intensive, high-level containment and pharmaceutical manufacturing facilities. Celeris protects researchers and safeguards the integrity of the research environment in critical control environments, while offering optimum energy efficiency.
Phoenix Controls: The Leader in Precision Airflow

Your business demands precision airflow control for critical spaces. It is a matter of safety, pure and simple. Safety for world-class research laboratories. Safety for collaboration in the world of emerging sciences. Safety for patients and staff in state-of-the-art hospitals. Energy efficiency is critical for critical airflows.

Wet Chemistry Labs Pharmaceutical Manufacturing Facilities

Our Customers
Many of the world's leading research organizations and pharmaceutical manufacturers use products from Phoenix Controls to create world-class and award-winning facilities, including:

- AstraZeneca R&D
- Microlab Sweden
- CARLTON UNIVERSITY
- Steris SuperELab Renovation
- 2010 Lab of the Year Special Mention

CENTERS FOR DISEASE CONTROL (CDC) Buildings
- 2008 Lab of the Year Special Mention

CHICAGO BOTANIC GARDEN Science Center
- 2011 Lab of the Year

GLA NISIMMOLINE
- St. Amand Les Eaux, France

HOLLAND HUGHES MEDICAL INSTITUTE
- Janella Farms
- 2003 Lab of the Year

JANSSEN PHARMACEUTICAL
- Geel, Belgium

THE BROAD INSTITUTE
- Cambridge, Massachusetts
- 2007 Lab of the Year

NOVARTIS NIBB
- Cambridge, Massachusetts
- 2005 Lab of the Year

UNIVERSITY OF ALBERTA EDMONTON Health Research Innovation Facility (HRIF)

UNIVERSITY OF BRITISH COLUMBIA
- Life Science Center

LEED Gold
- UNIVERSITY OF OTTAWA
- Gavilon Hall

UNIVERSITY OF PITTSBURGH Biomedical Sciences Tower I
- 2007 Lab of the Year Special Mention

UNIVERSITY OF TORONTO—MaRS
- Medical Discovery Tower

Celeris Airflow Control Designed for Critical Environments

The Celeris family of products is designed to provide exceptional airflow and comfort control for demanding high-reliability, wet chemistry, cleanroom, HVAC, biotechnology, and pharmaceutical laboratories. The precision airflow control that established Phoenix Controls’ reputation as the unmatched standard in fume hood control systems has been applied to room or suite-level control.

From primary containment devices, such as fume hoods, ventilated safe cabinets and biosafety cabinets, to the secondary containment barrier, Celeris® valves provide accurate and reliable airflow control for demanding high-reliability, wet chemistry, cleanroom, HVAC, biotechnology, and pharmaceutical laboratories. The precision airflow control that established Phoenix Controls’ reputation as the unmatched standard in fume hood control systems has been applied to room or suite-level control.

Celeris Benefits Facilities with Critical Environments

Celeris is a highly configurable, feature-rich control platform that builds on the accuracy of the Phoenix Controls venturi valve. This characteristic, along with Phoenix Controls’ sophisticated, anticipatory control, plays an important role in establishing primary and secondary containment barriers. The flexibility to owners and operators of these facilities include:

Uncompromised safety for containment and space pressurization
- One-second speed of response—Ensures fume hood containment and directional airflow are never compromised.
- Accuracy—Phoenix valves maintain ±5% accuracy over the entire flow range.
- Pressure-independent operation—Precise airflow when duct static pressure fluctuates.

Simplicity of design and commissioning
- Mechanical design—Phoenix Controls valves do not require straight duct runs, either upstream or downstream, saving thousands of dollars in ductwork.
- Less testing, adjusting and balancing (TAB)—Phoenix Controls valves are factory characterized, while terminal boxes must be field calibrated.

PHARMACEUTICAL MANUFACTURING FACILITIES

Phoenix Controls’ pharmaceutical manufacturing customers require 10-100 air changes per hour, differential pressure control from lab space to lab space, and stable accurate temperature and humidity conditions for high quality, reproducible production. These demanding environments are ideal applications for Phoenix Controls’ Celeris system, which provides superior performance, energy savings and comfort control by using Celeris’ high-speed control algorithms.

Wet Chemistry Labs
In wet chemistry labs, accuracy and speed of response are critical to achieving proper containment, air change rates and directional airflow. Whether the need is high density, simple air density, sophisticated temperature control sequences or energy savings, Celeris provides the solution.

High-level Containment Facilities

Celeris is highly configurable, feature-rich control platform that builds on the accuracy of the Phoenix Controls venturi valve. This characteristic, along with Phoenix Controls’ sophisticated, anticipatory control, plays an important role in establishing primary and secondary containment barriers. The flexibility to owners and operators of these facilities include:

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Integrate seamlessly with BACnet network—Use either a Phoenix Controls Microserver or Microserver to integrate data and provide set point control to the BMS.

High turndown provides opportunities to save energy
- Reduce flow when not needed—Phoenix Controls valves provide accurate flow control over flow rates ranging up to 20:1 vs. the 2:1 ratio of a traditional VAV terminal box.
- Usage-Based Controls—Up to 43% energy savings on unoccupied open fume hoods.
- Demand-based ventilation—Up to 60% energy savings by reducing air change rates when IAQ monitoring indicates air quality is good.
- Hibernation modes—Up to 20-30% energy savings by shutting unused fume hoods to virtually zero flow.

Dashboard monitoring of your critical space
- Display real time data in a variety of formats from the Micro or Microserver
- Easily monitor and manage the safety and energy operations of your lab.