

# VIVARIUMS / ANIMAL HOLDING ROOMS

Animal room solutions are designed to deliver a consistent, stable, and safe environment for research animals. Maintaining a proper living environment is critical to quality scientific research. Successful research and testing can be directly linked to accurate ventilation and climate control within the testing population. Critical Room Control provides **complete turnkey systems that define best practices** and include intuitive user interfaces that clearly indicate current status while automating proper space use.

Critical Room Control's Vivarium systems offer:

- Fast, accurate, quiet, and reliable room temperature, humidity and pressure control
- Local access for research staff of critical information at the touch of a finger
- Fully automated room sequencing
- Simple to navigate safety indication and alarming
- Safe closed loop control with true variable feedback
- Energy efficient control sequences
- Long term reliable control with no scheduled maintenance
- Improved user experience with clear intuitive user interfaces
- Single source responsibility for critical improved research outcomes



## CLOSED LOOP VALVES:

CRC-CLV

In order to ensure that safe operating conditions are being met, it is critical to measure the output that is being controlled. Our unique closed loop venturi valve provides long term reliability, unmatched accuracy, and true airflow measurement.

- Closed loop control
- True industrial grade air flow measurement
- Industry lowest energy requirements
- Impervious to lint, dirt, dust, animal hair and dander
- Ultra low pressure drop
- Confirmation of desired set point
- Fast acting and failsafe
- No scheduled maintenance
- Accurate to  $\pm 5\%$  of flow
- No minimum static pressure requirements
- No required straight duct runs
- 10 to 1 turndown
- Aluminum, steel, stainless steel, and coated construction
- Mount in any orientation

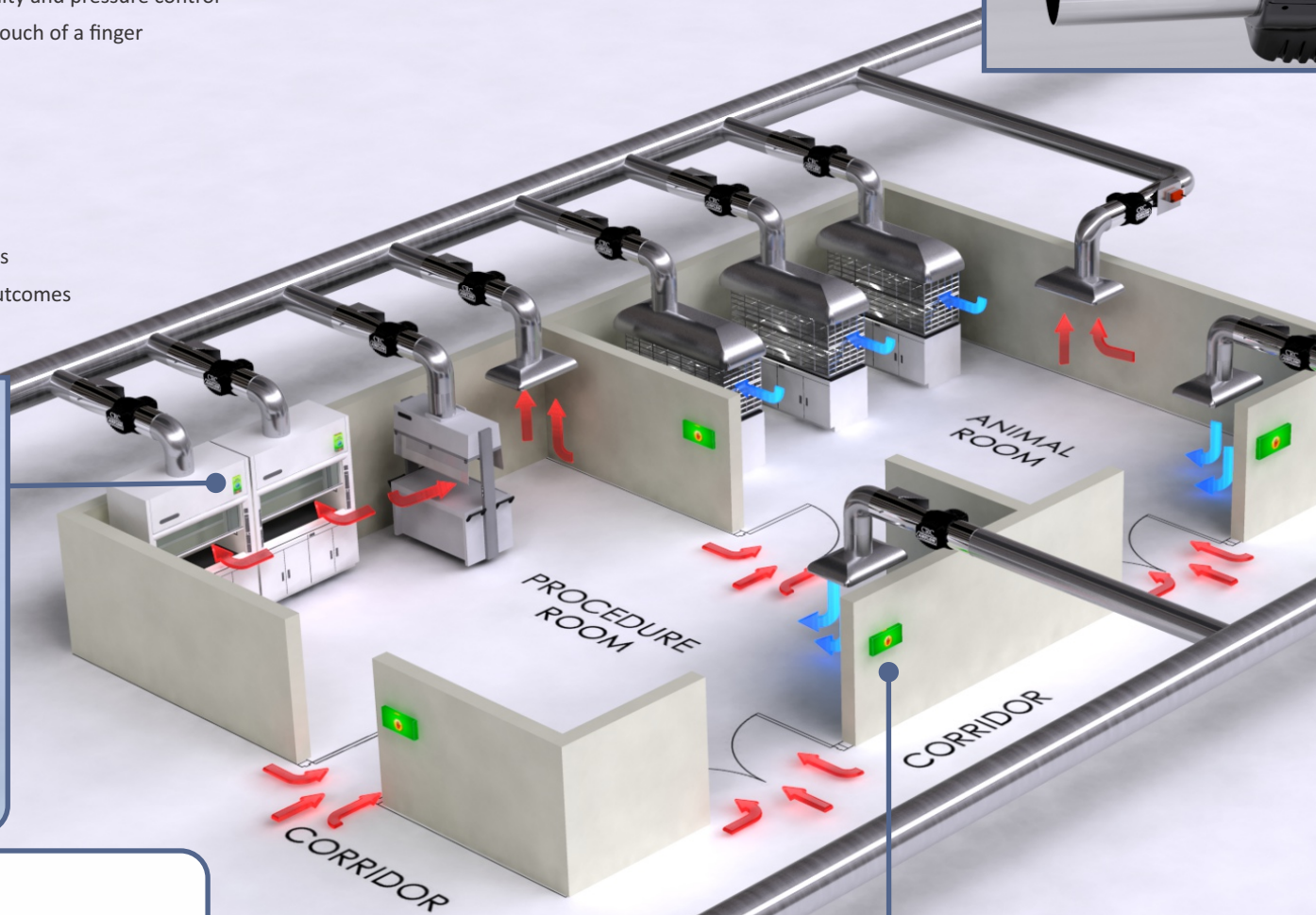


## Fume Hood Monitor / Controller:

CRC-FPM / CRC-FPC

The Fume Hood Controller (CRC-FHC) is designed to monitor and control a single fume hood where proper flow is vital.

- Monitor and control fume hood face velocity or volume
- Fast, accurate, stable and reliable control of fume hood face velocity
- Full color touch screen clearly indicates fume hood condition and alarms
- Supports constant volume or variable volume hoods
- Supports direct sidewall, vertical sash, horizontal sash and combination sash sensing
- Closed loop control strategy with true variable feedback
- Energy saving sequencing and control logic
- Can operate as a standalone controller or part of a CRC complete lab solution
- Supports Imperial and Metric readouts
- Seamless integration with CRC lab control system or BMS
- Onboard BACnet MS/TP Communications



## Lab Pressure Monitor / Controller:

CRC-LPM / CRC-LPC

The bright, colorful, easy to read LCD touch screen can monitor and control the pressure relationship of up to two rooms while giving clear indication of the room's current status and pressure readings.

- Monitor / control up to two rooms with one controller
- 5 fully customizable modes
- Automated room sequencing and changeover
- Best in class industrial grade dead ended direct pressure measurement
- Dual password protection
- Displays current value, alarm, and set point adjustment of up to 8 points
- Onboard BACnet MS/TP Communications
- I/O and Network diagnostic functions