



Laboratories and life science facilities require high levels of control for safety and occupant comfort. Ventilation demands, driven by fume hood exhaust flows and air change rates, mean laboratories can use six times the energy of a similar size office building. Operating one constant volume fume hood uses as much energy over the course of a year as three homes!





Industry-leading low pressure drop lab designs

Saving energy requires reducing laboratory airflows to the minimum needed for fume hood containment and ventilation. TSI laboratory control systems use low-pressure drop dampers to further decrease energy use without compromising safety.



## Direct, accurate measurement of critical parameters

Laboratories need to maintain the health and well-being of occupants. Potential hazards include chemicals, radioactive materials, and infectious biological agents. TSI fume hood controls and laboratory room controls help facilities optimize containment and ventilation. The products allow designers and owners to comply with regulations, guidelines and standards, including ANSI Z9.5 Laboratory Ventilation.



## Low pressure drop reduces VAV capital costs

Reducing airflows and system pressure drop minimizes HVAC system power requirements. This allows capital equipment such as fans to be downsized, reducing construction costs.

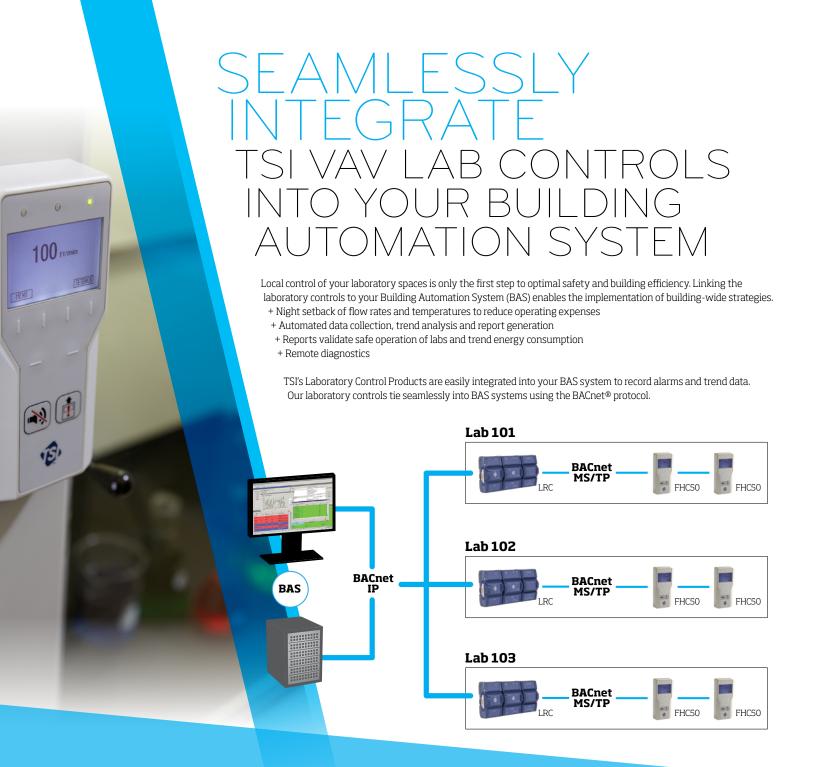
## TOP CHOICE— TSI VAV LAB CONTROLS

TSI VAV products directly and accurately measure these critical parameters:

http://www.nrel.gov/docs/fy05osti/36907.pdf

- + Fume hood face velocity
- + Supply airflows
- + Exhaust airflows





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USA Tel: +1800 874 2811 India
UK Tel: +44 149 4 459200 China
France Tel: +33 1 41 19 21 99 Singapore
Germany Tel: +49 241 523030

 India
 Tel: +91 80 67877200

 China
 Tel: +86 10 8219 7688

 Singapore
 Tel: +65 6595 6388