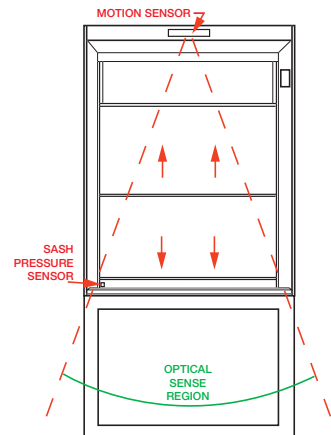


SMART-SASH- Conserves energy & saves money



- ◆ Our rugged chain and sprocket-driven counterweight system delivers the smoothest and safest sash available.
- ◆ Stainless steel bottom airfoil: 304 stainless steel airfoil provide increased chemical resistance. Airfoil ends feature large pass-throughs for cords.
- ◆ Aerodynamic sash handle: Design aids in the containment of harmful fumes during rapid sash movement.
- ◆ Dual purpose viewpass system: Smoked glass panel delivers the trusted bypass function of traditional louvered metal panels with a full view from the worktop to the hood ceiling.



**JAMESTOWN™
METAL PRODUCTS**

Trust as strong as steel.

178 Blackstone Avenue
Jamestown, New York 14701
(716) 665-5313
Fax (716) 665-5121
www.jamestown.com

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FEATURES AND BENEFITS

- ◆ Electronic gear motor coupled to the JMP Chain and Sprocket sash counterbalance system.
- ◆ Opens and closes the sash within 3 seconds.
- ◆ Field retrofittable on JMP Fume Hoods
- ◆ Infrared sensor with adjustable sense area and depth
- ◆ Sash safety sensor stops the sash motion at any position
- ◆ Operator can stop the sash opening at any time and reposition it manually
- ◆ Sash closes within 15 to 20 seconds after operator leaves the front of the hood
- ◆ Improves productivity with hands-free operation and prevents cross contamination between hoods
- ◆ Optional operating configurations include switch selectable Close/Only/Open Close function
- ◆ Reduced energy consumption, pay back within 18 months
- ◆ Meets ANSI/AIHA Z9.5-2003 specifications
- ◆ Microprocessor controlled for reliable operation and can be field reprogrammed to customer's specifications
- ◆ Minimizes exposure by maximizing the sash in the closed position
- ◆ Can be integrated with BMS for diversity control
- ◆ A low volume series of audible pulses alert operator of pending sash closure



Jamestown Smart-Sash.®

**Increases Safety, Conserves
Energy & Saves You Money.
\$2,561* Annually Per Fume Hood**



\$2,561 Annual Savings Per Hood

Energy Cost Comparison

Based on the above fume hood control systems the following is the calculated energy costs based on a typical 6' fume hood operating at 100 fpm with a maximum sash opening of 18" (775 CFM):

1-CAV System1	\$4,241 annually
2-Low Flow CAV System2	\$3,393 annually
3-Two State Valve-50% open3	\$2,458 annually
4-VAV with SMART-SASH4	\$1,680 annually

The annual energy cost savings of the VAV System with SMART-SASH saves \$2,561 as compared to a CAV system. An annual saving of \$778 is realized over the Two State System and an annual savings of \$1,713 per fume hood over Low Flow CAV systems. Your ROI is easily amortized in less than one year on CAV systems.

1-Based on a 72" fume hood operating at 775 CFM with a maximum sash opening of 18" operating 24/7 (CAV Mode).

2-Based on a 72" High Performance Fume Hood operating at 620 CFM (60 FPM) in a 24/7 CAV mode.

3-Based on a 72" standard fume hood at 18" sash position using a Phoenix XPS Two State valve system. Sash open 50% of the day at 775 CFM and 50% at 465 CFM (60 FPM).

4-Based on a 72" fume hood with VAV controls operating at 775 CFM when opened to 18". Minimum airflow when sash is closed-260 CFM. Probability of sash open set at 30%.

5-Energy costs — Electric — \$.08/KWH, Gas — \$5.75 mfc.

Summary

- ◆ The safety and energy savings are maximized when a VAV System and SMART-SASH are combined in one package.
- ◆ The SMART-SASH System can be field retrofitted on most JMP Bench and Walk-in Fume Hoods. The SMART-SASH can communicate with BMS systems for diversity control.
- ◆ JMP offers a free comprehensive "Energy Analysis" to determine the potential cost savings of incorporating the SMART-SASH on our hoods. Please contact the JMP Fume Hood Engineering Department for details at 716-665-5313.
- ◆ It's often said, "failing to plan is planning to fail." With th extraordinarily high-energy prices that continue to rise, it only makes sense to invest in the experience and expertise of the JMP team to help you optimize your energy dollar.
- ◆ Patents Pending.



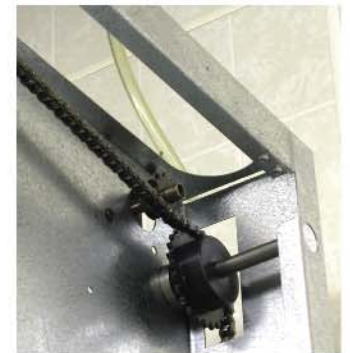
INFINITELY PROGRAMMABLE CONTROL PANEL



GEAR DRIVE LONG-LIFE MOTOR



ADJUSTABLE INFRARED MOTION SENSOR



DIRECT DRIVE TO SASH CHAIN ASSURES SMOOTH UNINTERRUPTED UP AND DOWN MOTION



SASH PRESSURE SWITCH ALLOWS FOR...



...DYNAMIC BRAKING LIMITING CLOSING FORCE TO 10 POUNDS



JAMESTOWN METAL PRODUCTS

