MODEL: ASPS–SS–PB (Most popular model)
Automatic / Push Button Mode Automatic Sash Positioning System for Single Vertically Rising Sash Bench Top Fume Hoods

SEQUENCE OF OPERATION

Automatic Opening Mode:
When a laboratory technician is sensed in front of the fume hood, the sash will open in less than 3 seconds to an open position of 18-inches ±1 inch. The user will be able to manually move the sash to a higher or lower position without releasing any type of sash locks. Once NO object is sensed, the control module will delay 60 seconds (adjustable), then slowly close the sash in less than 10 seconds. If an object is sensed in the path of the sash, the control module will stop the sash and turn on the sash interference light. To re-open the sash after the sash has been stopped the laboratory technician has to be sensed in front of the hood and the “Push to Open” button activated.

Push Button Mode:
When a laboratory technician is sensed in front of the fume hood, and the “Push-to-Open” button is activated the sash will open in less than 3 seconds to an open position of 18-inches ±1 inch. The user will be able to manually move the sash to a higher or lower position without releasing any type of sash locks. Once NO object is sensed, the control module will delay 60 seconds, (adjustable), then slowly close the sash in less than 10 seconds. If an object is sensed in the path of the sash, the control module will stop the travel of the sash and turn on the sash interference light. To re-open the sash after the sash has been stopped the laboratory technician has to be sensed in front of the hood and the “Push to Open” button activated.

MODEL: ASPS–WI–SS (Second most popular model)
Automatic / Push Button Mode Automatic Sash Positioning System for Dual Overlapping Vertically Rising Sash Walk In Fume Hoods

SEQUENCE OF OPERATION

Automatic Opening Mode:
When a laboratory technician is sensed in front of the hood the upper sash shall open in less than 3 seconds to 18-inch height open position ±1 inch. The user shall be able to manually move the upper sash to a higher or lower position without releasing any type of sash locks. Once NO object is sensed, the control module shall delay 60 seconds (adjustable), then slowly close the upper sash in less than 10 seconds. If the upper sash travels in the most interior track and if an object is sensed in the path of the sash the control module shall stop the upper sash. When lower sash is raised, ASPS™ for upper sash is disengaged and is able to be manually moved. A red light is illuminated to indicate to the user that the ASPS™ on the upper sash is disengaged.

Push Button Mode:
When a laboratory technician is sensed in front of the hood and the Push-to-Open button is activated the upper sash shall open in less than 3 seconds to 18-inch height open position ±1 inch. The user shall be able to manually move the upper sash to a higher or lower position without releasing any type of sash locks. Once NO object is sensed, the control module shall delay 60 seconds, (adjustable), then slowly close the upper sash in less than 10 seconds. If the upper sash travels in the most interior track and if an object is sensed in the path of the upper sash the control module shall stop the sash. When lower sash is raised, ASPS™ for upper sash is disengaged and is able to be manually moved. A red light is illuminated to indicate to the user that the ASPS™ on the upper sash is disengaged.
The ASPS™ is designed for any vertical sash fume hood – retrofit or new!

- **SASH ACTUATOR:** The sash actuator is a one-inch dia. industrial grade pneumatic cable cylinder. It allows for individual force opening speed and closing speed. The actuator is designed for easy retrofit to either attach to the top of the sash frame or glass, sash cable, or sash counter weight.

- **PRESENCE SENSOR:** The presence sensor sees the technician in front of the fume hood and can identify non-moving objects like carts or chairs to tell when the fume hood is being used. The presence sensor can be set to see as close as 4 inches in front of the fume hood for high traffic areas, 24 inches for normal working areas, or as far as 48 inches for sashes that are used in “Automatic” mode that need to be opened before the technician reaches the hood. The presence sensor has four selectable frequencies so any adjoining fume hoods do not interfere with each other.

- **MODE SWITCH:** The mode switch option is available on ASPS™ units when both “Push-Button” and “Automatic” modes and a sash interference light. The standard “Push-Button” mode requires the presence sensor see the technician and the activation button to be pushed. In this way a person can walk by or view a fume hood without the sash opening. The “Automatic” mode allows for the sash to open as soon as the presence sensor sees the technician. This mode is for fume hoods where there is very low walk-by traffic as well as hoods that require access when both hands are full.

- **SAFETY EYE:** The patented safety eye rides below the sash preventing the sash from closing on any object or causing an accident (as required by ANSI/AIHA Z9.5*). This is accomplished by using a reflecting polarized infra-red beam that can detect a ¼ inch glass rod at seven feet. The ASPS™ can be installed so that when an object is detected the sash will return to normal working height or stop.

- **PUSH-TO-OPEN BUTTON:** This activation button is used in Push-Button mode to initiate the opening of the sash to the normal working height. By holding the button during the sash opening the sash can be opened to any height greater than the normal working height when greater access into the fume hood is required.

- **CONTROL MODULE:** The control module, which is mounted on top of the hood, contains the sash actuator’s force (as required by ANSI/AIHA Z9.5*), opening speed and closing speed are adjusted. The control module also contains the time delay relay that allows the adjustment of the time to start the closing of the sash.

- **LIMIT SWITCH:** The limit switch, which is mounted behind the bypass panel, sets the sash opening normal “safe” working height.

- **SERVICE REQUIREMENTS:** Each ASPS™ is individually powered with a 2-amp 12vdc regulated power supply, plugged into a 120V duplex outlet provided on top of the fume hood. The ASPS™ also requires a source of 20psi instrument grade air.

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