1. An automatic sash closing device must be provided that closes the sash when the fume hood is unoccupied. This protects the lab and personnel from unattended procedures and can provide energy savings if the hood sash location varies the hood exhaust volume via variable air volume controls.

The proximity sash control shall be motor driven. A proximity motion sensor located on the face of the hood shall detect inactivity at the hood and close the sash after a predetermined timeframe.

1. All features to be programmable via portable hand-held service module or laptop computer (provide required laptop Software Pak to communicate with the system).
	1. Sash stop-open positions can vary and must be programmable. Must have an adjustable delay timer for auto sash closing which can be set for a minimum of 10 seconds to a maximum of 1800 seconds (30 minutes).
	2. System shall be controlled by a microprocessor to close the fume hood sash.
	3. Integrated power-supply 120/230V AC.
	4. All system data is saved main voltage fail-safe in the EEPROM.
	5. Two motor speeds are programmable with soft stop.
	6. The motor shall have an automatic and manual current shut-off.
	7. Teach-in mode, for easy commissioning of different fumes hood types.
	8. A monitored closing process by infrared light barrier and auto shutoff at obstacle recognition must be provided. Contact switches are not acceptable.
	9. ANSI-AIHA Z9.5 compliant.
	10. Suitable for all types of fume hoods utilizing a vertical sash and chain-and-sprocket counterbalance mechanism.
	11. Optional push button panel is available to open, close and stop the sash. If this option is not obtained, the sash can be easily opened and closed manually.

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## END OF APPENDIX E