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(54) Title: IMPROVED AIR SAMPLING SYSTEM

(57) Abstract: A system and method for sampling air in a controlled environment that includes two or more air sampling devices at different locations within the controlled environment. A controller is provided at a location outside of the controlled environment and in separate air flow communication with each of the two or more air sampling devices via separate first vacuum tubes, the controller having a manifold configured to separately control a rate of air flow from the two or more air sampling devices to the controller via each of the separate first vacuum tubes and to selectively direct the air flow from each of the separate first vacuum tubes to one or more second vacuum tubes. A vacuum source is provided at a location outside the controlled environment and in air flow communication with the controller via the one or more second vacuum tubes, the vacuum source providing suction and being controlled by the controller to generate the air flow through each of the first vacuum tubes. And, a flow switch for each of the two or more air sampling devices is provided at a location between a corresponding air sampling device and the vacuum source, each of the flow switches being configured to separately measure and control the rate of air flow through a corresponding first vacuum tube. An alarm is automatically activated at a location inside the controlled environment by one or more of the flow switches when the rate of air flow measured at one or more of the flow switches deviates from a desired value by a predetermined amount.



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