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93. The system of claim **91**, wherein said inhalant manifold comprises:

at least one environmental-condition sensor integral with said inhalant manifold, said at least one environmental condition sensor selected from an environmental-condition-sensor group including a temperature sensor, a relative humidity sensor, a pressure sensor, and an inhalant concentration sensor; and
said exposure control system operably coupled to said at least one environmental-condition sensor.

94. The system of claim **91**, wherein said inhalant manifold comprises:

at least one environmental-condition controller integral with said inhalant manifold, said at least one environmental-condition controller selected from an environmental-condition-controller group including a temperature controller, a relative humidity controller, a pressure controller, and an inhalant concentration controller; and
said exposure control system operably coupled to said at least one environmental-condition controller.

95. The system of claim **91**, wherein said first independently-controllable exposure unit coupled to said inhalant manifold comprises:

an independently-controllable valve interposed between the inhalant manifold and a first apertured connector; and
said exposure control system operably coupled to said independently-controllable valve interposed between the inhalant manifold and a first apertured connector.

96. The system of claim **91**, wherein said first independently-controllable exposure unit coupled to said inhalant manifold comprises:

an independently-controllable valve interposed between the inhalant manifold and an exhaust manifold; and
said exposure control system operably coupled to said independently-controllable valve interposed between the inhalant manifold and the exhaust manifold.

97. A system comprising:

an inhalant manifold;
a clean-air manifold;
an exhaust manifold in communication with said inhalant manifold and said clean-air manifold;
a plurality of independently controllable exposure units including a first valve and a second valve, each valve

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is operably connected to said inhalant manifold, said clean-air manifold and said exhaust manifold;

during an inhalant exposure, said first valve is in open communication with said inhalant manifold and said exhaust manifold, and is in closed communication with said clean-air manifold; and

during an inhalant exposure, said second valve is in open communication with said clean-air manifold and said exhaust manifold, and is in closed communication with said inhalant manifold.

98. The system of claim **97**, wherein during a clean-air exposure,

said first valve is in open communication with said clean-air manifold and said exhaust manifold, and is in closed communication with said inhalant manifold; and
said second valve is in open communication with said inhalant manifold and said exhaust manifold, and is in closed communication with said clean-air manifold.

99. The system of claim **97**, further comprising a controller in communication with and operating each first valve and second valve.

100. A system comprising:

an inhalant manifold;
a clean-air manifold;
an exhaust manifold in communication with said inhalant manifold and said clean-air manifold;
a plurality of independently controllable exposure units including a first valve and a second valve, each valve is operably connected to said inhalant manifold, said clean-air manifold and said exhaust manifold;
a controller in communication with and operating each first valve and second valve.

101. A computer-readable medium having computer-executable instructions for performing the method steps recited in claim **9**.

102. A computer-readable medium having computer-executable instructions for performing the method steps recited in claim **1**.

103. A computer-readable medium having computer-executable instructions for performing the method steps recited in claim **31**.

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