

CLAIMS:

1. A ventilation system, comprising:
 - an input side with a blower;
 - an output side;
 - a filter positioned between the input side and the output side;
 - a control system linked to the blower for controlling the output of the blower, the control system also including a static pressure adjustment system, the static pressure adjustment system including:
 - an input pressure sensor located adjacent the filter on the input side and an output pressure sensor located adjacent the filter on the output side;
 - a microprocessor linked to the input pressure sensor and the output pressure sensor, the microprocessor receiving signals indicating the static pressure on the input side and the output side, and based upon the static pressure on the input side and output side, the static pressure adjustment system determines a measured differential pressure and the pressure adjustment system continuously sends a signal to increase the output of the blower as the measured pressure differential increases.
2. The ventilation system according to claim 1, wherein the control system includes a graphical user interface.
3. The ventilation system according to claim 2, wherein the graphical user interface includes an input for an offset in the measured differential pressure.
4. The ventilation system according to claim 2, wherein the graphical user interface includes an input for a measured differential pressure of a clean filter.

5. The ventilation system according to claim 2, wherein the graphical user interface includes an input for turning the static pressure adjustment system on or off.
6. The ventilation system according to claim 1, wherein the static pressure adjustment system includes an alarm.
7. A method for adjusting air flow from a blower in a ventilation system to compensate for changes in static pressure across a filter, comprising the steps of:
 - determining a measured differential pressure between an input side of a ventilation system and an output side of the ventilation system, wherein a filter is positioned between the input side and the output side;
 - continually measuring the measured differential pressure as the filter fills with contaminants; and
 - continuously increasing output of the blower as the measured differential pressure increases.
8. The method according to claim 7, wherein the ventilation system includes an inlet pressure sensor on the inlet side and an outlet pressure sensor on the outlet side.
9. The method according to claim 7, wherein the step of determining the measured differential pressure includes determining a measured differential pressure between the input side and the output side with a clean filter therebetween.
10. The method according to claim 7, further including a graphical user

interface.

11. The method according to claim 7, further including, prior to the step of continually measuring the differential pressure, measuring a pressure difference across the filter when the blower is off and no air flow is passing through the ventilation system.

12. The method according to claim 7, further including the step of issuing an alarm when the measured differential pressure reaches a predetermined level.

13. The method according to claim 12, wherein the predetermined level is an indication that the filter needs to be replaced.