Claims

1. A fan assembly, comprising:

a first fan;

a second fan;

a common nozzle coupled to an outlet of both the first fan and the second fan;

a damper configured to close off either the first fan or the second fan in the event of failure of either the first fan or the second fan;

wherein both the first fan and the second fan run during normal operation and an RPM of a remaining good fan is increased in the event of failure of either the first fan or the second fan to compensate for the failed fan; and

further including a first motor coupled to the first fan by a drive belt, and a second motor coupled to the second fan by a drive belt, wherein the first motor is coupled to an assembly housing by a first hinge, and wherein the second motor is coupled to the assembly housing by a second hinge.

2. The fan assembly of claim 1, wherein the damper is passive, and is configured to be open to both the first fan and the second fan while both the first fan and the second fan are in operation.

3. A fan assembly, comprising:

a first fan;

a second fan;

an integrated common nozzle coupled between the first fan and the second fan, and a windband;

a damper configured to close off either the first fan or the second fan in the event of failure of either the first fan or the second fan;

wherein both the first fan and the second fan run during normal operation and further an RPM of a remaining good fan is increased in the event of failure of either the first fan or the second fan to compensate for the failed fan; and

further including a first motor coupled to the first fan by a drive belt, and a second motor coupled to the second fan by a drive belt, wherein the first motor is coupled to an assembly housing

by a first hinge, and wherein the second motor is coupled to the assembly housing by a second hinge.

4. The fan assembly of claim 3, wherein the damper configured to be actively actuated within a range of motion.

5. The fan assembly of claim 3, further including an access cover over a belt drive motor.

6. The fan assembly of claim 3, wherein one or more of the first fan and second fan are directly driven from a motor shaft.