



## PROJECT PROFILE

### HOME AIR CLEANER

#### CLIENT REQUIREMENTS

A home appliance manufacturer needed to modernize the design of an existing Electronic Air Cleaner unit to meet current industry standards and increase its aesthetic appeal. Several current Palladium personnel were retained (prior to the incorporation of Palladium Product Development & Design) to provide project management and product development expertise to deliver a completely redesigned prototype. The entire product development process from concept to manufacturing ready prototype was outsourced including:

- The reverse engineering and 3-D modelling of the existing air cleaner, creating a baseline against which each successive improvement was tracked
- The creation of a new aesthetically appealing design with upgraded components.
- Design to meet CSA / UL certification requirements.

#### PROJECT HIGHLIGHTS

While meeting the client's manufacturing cost targets, the final product, delivered on time and on budget included the following advancements:

- Incorporation of a UV light for more effective air cleaning.
- 3 speed settings with maximum speed of 500 CFM.
- Upgraded and newly positioned control switches at the top of the unit.
- Incorporation of new casters for ease of movement.
- A total unit weight of less than 50 lbs.

