

Customer: Manufacturing  
Location: Eastern Canada



### **Problem:**

A small manufacturing company, who designs and manufactures environmental control equipment for greenhouses, was currently utilizing a Polycase PS Series plug-in enclosure PM2425 for one of their controller applications. The customer was looking to produce a new model with a few minor revisions to the application's current design.

The challenge lied in the budget for the new project. The company required production of a new application, but at less cost per unit than the original project. Additionally, the customer wanted to utilize the same base enclosure, the Polycase PM2425, so switching to a smaller more cost-effective enclosure was not an option.

### **Solution:**

The original design incorporated ventilation slots on both sides of the enclosure to allow for adequate air flow. This feature had to remain constant in the new design. The Polycase Engineering Team was able to work directly with the customer to conclude that a new design of 3 ventilation slots at .10" wide would work just as effectively as the original design of 5 slots at .06" wide. This design change would reduce the total machining cost per enclosure, thus reducing the overall cost of the project and meet the customer's targeted budget goal.

### **Result:**

The customer was able to move right into production of the new model. The ability to work directly with the Polycase engineers offered convenience that's not easily found with other plastic enclosure manufacturers. Most importantly, with the help of Polycase engineers the customer was able to stay within budget without compromising the quality or functionality of the new product.

### **Highlights:**

*A product redesign posed the challenge of reducing the cost of the project without compromising quality. Polycase engineers were able to work directly with the customer to create a new design solution that reduced the cost of the product but kept functionality intact.*

### **Benefits:**

- *Direct access to Polycase engineers*
- *Base enclosure for the project remained unchanged*
- *Customer stayed within budget*