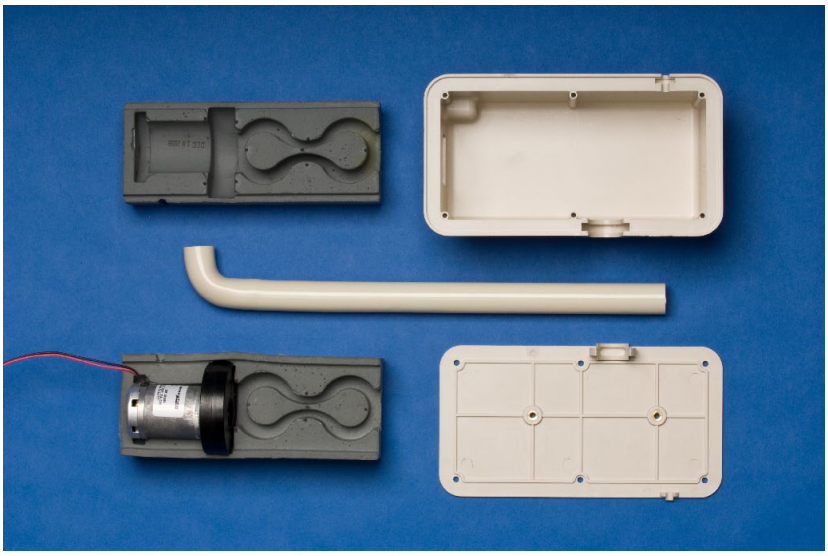
**Industry:** Medical
**Part:** Molded Foam Motor Enclosure
**Issue:** Customer received numerous complaints about motor noise
**Solution:** Developed custom solution to fit within design contstraints that reduced noise to an acceptable level.

**Determine... Understanding your needs is our starting point.**
A Medical customer sourced an electric motor for their product that unexpectedly caused a noise issue. The noise problem was causing problem in the field with patients. They were looking for a fast solution and realized there was very little space to add sound proofing.

**Design... Defining a complete solution is at the core of our approach.**
Sur-Seal Engineering Service Group evaluated the application and determined that the high frequency sound issue required some type of highly engineered molded urethane foam. Sur-Seal begin collaborating with our partners and begin the process of determining the best design to solve the noise issue and work inside the space constraints.



**Develop... Harnessing resources efficiently is required in our process.**
Sur-Seal developed a unique design that included a robust plastic housing and very unique molded foam enclosure for the motor. The final assembly included the box, foam, air filter and a formed tube. The final design met all requirements including a V2 fire rating and custom coloring.

**Deliver... Realizing success means on time, in full, as promised.**
Prototypes and DVM parts along with testing to check; current draw, sound levels and burn cycle were delivered on a budget on time. Sur-Seal married a variety of our unique capabilities that delivered a part component that ultimately solved the problem on two different units.