

CASE STUDY — Custom Enclosures

MGC Advanced Polymers

BACKGROUND:

The client had previously purchased unenclosed blower packages and wanted to attenuate the sound emitting from those units already onsite. There are two units onsite and we had already provided the client with an enclosure for the smaller unit. After we provided the smaller unit, they requested that we enclose the larger blower package.

CHALLENGES:

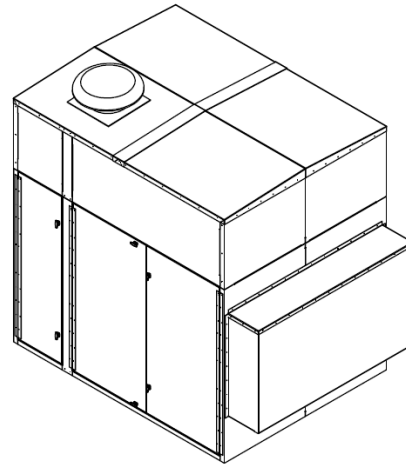
The challenge to installing the larger enclosure was that the previously installed blower package was located in a room on the 4th floor and the only access to the area was a freight elevator with limited space. The dimensions for the service elevator are 45" Wide, 64" Deep, and 82" High. For a smaller enclosure this would not have been difficult. However, the blower package to be enclosed was much larger with the following dimensions: 94.5" Wide, 68" Deep, and 102" High. The enclosure must be larger than the package to allow for proper ventilation.

SOLUTION:

To accommodate the spatial limitations for accessing the unit we designed an enclosure that consisted of pieces that were small enough to fit into the freight elevator. Because of the spatial constraints, not one side of the enclosure could be provided as a whole piece. The unit was designed to be put together by the client in the field.

RESULT:

After design, the enclosure was built and preassembled in our warehouse to ensure that the pieces fit together. The unit was shipped assembled to give the client a better understanding of how the enclosure pieces would be reinstalled. The enclosure was successfully installed by the client in August of 2009.



(Above) The lines breaks help identify the many components of the enclosure. (Below) A Typical enclosure would be shipped as a clamshell that clamps around the unit to be enclosed.

