



Streamline Your HVAC Retrofit With 3-D Point Cloud Scanning

Benefits of 3-D Scanning Include:

Time savings during the design stage.

Assurance that all new equipment will fit in its location so installation can progress quickly and smoothly.

Proven routing for clash detection to prevent change orders.

More accurate drawings for prefabrication to minimize shut-down time.

A 3-D view of what your project will look like when completed.

The ability to create accurate as-built drawings of the completed project.

Quick delivery - with most scans ready within a week, depending on the size of the project.

Before retrofitting your HVAC equipment, you'll need accurate documentation of your building's mechanical and electrical systems. But that can be a challenge.

Even if you have blueprints, you will probably find that existing systems were not installed as originally designed or were changed over the years - and your drawings don't reflect the changes. This can lead to installation problems and delays.

The Solution: 3-D Point Cloud Scanning

This technology documents existing mechanical systems by capturing the components and physical dimensions. Highly accurate 3-D scan data lets you view as-built documentation in a virtual world. The point cloud data can also be used to generate 3D AutoCAD models for your entire HVAC retrofit project.

This quick, easy solution won't delay your project start and helps ensure a fast and efficient implementation of your retrofit project once the project is underway. Setup and scanning won't interrupt your schedule or your facility's operations. Depending on scale, your scan is usually done by one person and some light equipment, with no help from your team required.

An Example of How it Works:

1. Pre and post 3-D point cloud laser scan is used to create a 3-D image of the existing mechanical and electrical systems and mechanical equipment to be replaced.
2. The pre-scan is used in the design build process to visualize and identify any interference prior to installation and to locate the pumps and chiller to ensure recommended operational and service clearances are met.
3. The pre-scan is also used to coordinate prefabrication of the piping system so a detailed schedule can be put in place to minimize mechanical and electrical down time.
4. The post scan is used to create accurate and detailed as-built drawings of the installation of mechanical and electrical systems plus the new pumps and chiller.



For more information, reach out to your Brady Account Manager or email info@bradyservices.com.