

# Case Study



## SiteBilt® AT 920 BROAD STREET

### SOLUTIONS FOR TIGHT SPACES

#### THE CHALLENGE A NEW UNIT IN AN OLD SPACE

Over time, standard air handling units will succumb to environmental factors such as rusting and seal failure. When a unit's components deteriorate, its ability to perform to acceptable standards does as well. The AHU located in the Hartford Juvenile Detention Facility at 920 Broad Street in Hartford, CT was one such unit that was facing these issues. Time-induced wear and tear on the system had become so problematic that the only possible remedy was to replace the unit in its entirety. This endeavor was complicated by the fact that the old air handling unit was located in a small, difficult-to-access space. Attempting to install a fully assembled unit would require demolishing a wall or drastically altering the area. A resolution was needed to avoid any costly or time-consuming construction projects.



#### THE SOLUTION A CUSTOM SiteBilt® AHU

The property manager, RM Bradley, knew that replacing the unit in one, factory-built piece would be difficult. After meeting with Flow Tech to discuss possible solutions, RM Bradley decided that Air Enterprises offered a unique solution that would be ideal for this particular replacement. Air Enterprises offers customers the ability to have the parts of an air handling unit shipped to a job site and assembled there via their unique SiteBilt® program. SiteBilt® is ideal for replacement or retrofit applications where space is limited and accessibility is low. To overcome the obstacles faced by the 920 Broad Street project, Air Enterprises made use of SiteBilt® to have the unit built on location rather than attempting to maneuver a full assembly in the cramped conditions of the area.



#### THE RESULTS SAVINGS AND FUNCTIONALITY

The AHU was custom designed to fit the location of the old unit after several site visits, measurements and much double-checking from Flow Tech. Environmental effects were kept in mind so features such as corrosion-resistant, all-aluminum construction were used to ensure that the unit's functionality was long lasting. Finally, a field advisor was supplied by Air Enterprises to oversee the construction project and ensure its success. Months later, feedback was highly positive as the new unit was moving a greater volume of air more efficiently than the old system.

