SWAGELOK

SOLON, OH | NEW CONSTRUCTION & RENOVATION DESIGN-BUILD PROJECT

Brewer-Garrett



SIZE
128,885 sq. ft.

COST
$8,996,000

DURATION
17 Months

SCOPE

- HVAC upgrades
- Exhaust fan installation
- Air Handling Unit (AHU) upgrades
- Variable Air Volume (VAV) upgrades
- Building Automation Systsem (BAS) upgrades/integration
- Exhaust fan installation

Swagelok, named for its founder's invention of a leak-tight fitting swage used to hold tubing in place, is an international and billion dollar manufacture of gas and fluid system components, headquartered in Solon, Ohio. Since 1947, the company has grown exponentially and manufactures thousands of products over a myriad of industries.

GUARANTEED MAXIMUM PRICE

OFFERED A COST-EFFECTIVE PATH TO REACH CLIENT'S GOALS

ZERO

CHANGE ORDERS

Over the years, the expansion was needed to allow for the physical growth of the company, and this included placing an addition onto the existing headquarters. Brewer-Garrett (**BG**) performed a thorough review to discern what modifications were necessary to the main plant's heating and cooling systems to accommodate the 128,885 square foot addition. With multiple facilities in the area, this addition allowed for team members to come together under one roof.

BG equipped the office areas with two (2) 120-ton roof mounted units that consisted of direct expansion cooling, indirect-fired natural gas heating for morning warm-up, and variable frequency drives to best control the volume of outdoor air needed. These units delivered air to the variable air volume (VAV) terminal units for each controlled zone. This served the entire new construction office areas as well as the renovated spaces in the existing building.

BG provided the laboratory floor with two (2) 80-ton rooftop units that provided 100% outdoor air to ventilate the space properly and safely. MERV-8 prefilters and MERV-13 final filters were selected to assist with odor control.

BG integrated new building automation system with the existing building to ensure that all systems could be accessed through a single point of contact. This provided all new graphics into the existing control graphics including, temperatures for various air types, damper positions, fan statuses and speeds, air flow rates, and alarms.

BG reconfigured an office space, mid-construction, at the request of the CEO. The entire construction team had signed a beam that would have been hidden within the walls of the new addition; however, it was decided to showcase the work of the team and to leave it exposed as a focal point in the office.

