

INDUSTRY

Pharmaceutical

PROJECT NAME

Incyte Pharma

LOCATION

1801 Augustine Cut off, Wilmington, DE 19803

LOCAL REPRESENTATIVE

Energy Transfer Solutions LLC

CONSULTING ENGINEER

NV5

CONTRACTOR

Worth & Company, Inc



Incyte Pharma is a biopharmaceutical company specializing in the discovery, development, and commercialization of innovative therapies for serious diseases. Their focus lies in areas such as oncology and inflammation, striving to bring transformative treatments to patients worldwide.

PROJECT SUMMARY

When our client, a leading consulting engineer, encountered height restrictions to introduce new air handling system into the mechanical room for Incyte pharma, they turned to us for a custom solution.

This case study outlines how our tailored approach not only met but exceeded expectations, thanks to strategic collaboration and superior engineering.

TECHNICAL CHALLENGES

The primary challenge revolved around height restrictions within the mechanical room. These constraints impeded the integration of the air handling system consisting of four indoor air handling units and two indoor/outdoor exhaust units (EAHU), potentially compromising their functionality and overall efficiency. Finding a solution that could accommodate these limitations without sacrificing performance became our mandate.

SOLUTIONS OFFERED BY INGÉNIA

Our team approached the challenge with a blend of ingenuity and precision engineering.

Recognizing the critical need to minimize the height of the return fan module above the air handling unit, we devised a multi-faceted solution:

Customized Design: Leveraging our expertise in custom solutions, we tailored the design of the air handling unit to optimize its dimensions while maintaining peak performance standards. By meticulously designing each component to fit within the height parameters, we ensured a seamless fit within the mechanical room.

Raceway Conduits: To address concerns about maintaining a leak-tight unit, we provided empty raceway conduits alongside the units, facilitating the field mounting of controls. This strategy not only preserved the unit's integrity but also facilitated the installation process.

SOLUTIONS OFFERED BY INGÉNIA

Rigorous Testing: Prior to deployment, our solution underwent rigorous testing to validate its efficacy. The air leakage test, a crucial benchmark of cabinet performance, yielded exceptional results of 0.28% air leakage, with the test pressure set at 12 inches of water gauge.

Energy recovery: To adhere to energy recovery codes, we integrated our specialized recovery coils; facilitating heat transfer between the exhaust air and outside air streams.

CONCLUSION

In overcoming the challenges posed by height restrictions, our custom solutions demonstrated our commitment to innovation and excellence. Through strategic collaboration and meticulous attention to detail, we not only met but exceeded the clients' expectations, delivering a solution that sets the standard for efficiency and reliability in air handling unit design and installations.

As industry pioneers, we remain dedicated to pushing the boundaries of possibility, ensuring unparalleled success for our clients.



