

R&D FACILITY DRY ROOM

Fully Pre-Engineered Kit Case Study

TIMELINE: 6 MONTHS SIZE: 1,875 SQUARE FEET

SPECIAL FEATURES

25'x75' kit with SuperSUEE, internal airlock, **ARCHITECTURE** and material pass-through.

TIMELINE

EFFICIENT

CLEAN

PROVEN

DESIGN

7000 CFM desiccant dehumidifier with high **HVAC SYSTEM** efficiency terminal HEPA filters and low wall returns

40C DEWPOINT WITH 8 OCCUPANTS

ISO 7 CLEANLINESS

Materials onsite to start critical construction in less than 3 months.

JUNE 2021 - ORDER CONFIRMED **DECEMBER 2021 - ROOM CONSTRUCTED JANUARY 2022 - FINAL HANDOVER**

Locating the DHU directly on the room, created an efficient **ENERGY** ductwork design and ultra high-efficiency terminal.

> Paired with high-efficiency terminal HEPA filters, created a system with only 2.5" total static pressure.

The pre-engineered kit includes Airtho inch large windows and intelligrid ceiling system with bright white AL blanks and LED lighting for a welcoming working environment.

Airtho's fully pre-engineered dryroom kit produced a 1,875 saft space with design submittals completed in 2 weeks and \$0 of change orders. This R&D room facilitated the planned development of an all new production gigafactory in the US.

PROJECT HIGHLIGHTS

RAPID DESIGN critical room components within 3

Airtho rapid design created a full submittal package in 2 weeks and allowed delivery of critical room components within 3 months from the purchase order.

cinical room components within 5 months from the parchase order.

SuperSIEE supported the critical loads of Airtho's dry room package without any required upgrades to the base building.

INFRASTRUCTURE Located in a mixed-use facility, Airtho aligned access to the walkable plenum cap directly

from the existing second-floor offices for ease of access.

CUSTOMIZATION The client maximized speed and cost efficiency by using a fully pre-engineered kit without

customization.

SOLUTIONS Airtho's kit solution allowed for highly efficient cross-border production, utilizing local

contractors for installation, critical during Covid restrictions.









To learn more about kit sizing or to receive a quote specific to your project needs, respond here or give us a call at 603-257-0002.