

CLIENT

CONFIDENTIAL

LOCATION:

New York



Process Chiller



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Cargo-Care AC Unit

CONSTRUCTION VALUE:
\$1 Million

DESIGN START:
1994

DESIGN COMPLETE:
1994

CONSTRUCTION
COMPLETE:
1994

SCOPE OF WORK

Design Upgrade to Two-Story Vaccine Production Chill Room

PROJECT DESCRIPTION

A&J was prime consultant for design and construction administration of a \$1 million renovation of a two-story vaccine production Chill Room to class 100,000 cleanliness and Class 1, Division 1, Group D explosion-proof Chill Room requirements.

The unique design approach included a customized Air Handling Unit using 27 degree F glycol-chilled water, a separate customized Air Handling Unit with chemical desiccant dryer cooling coils and HEPA filters to treat 100 per cent outside air to 0 degrees F dew point for pressurization, and high-low return/exhaust air systems. Explosion-proof fans, motors, receptacles and metal halide lighting fixtures were installed. A DDC-controlled glycol chiller was installed.

The sprinkler system was upgraded to a pre-action type. Due to extremely tight spaces below and above the ceiling spaces, a color coordination drawing was prepared to enhance installation of ductwork, sprinklers, lighting, conduit and piping. Construction was expedited and closely coordinated by using CPM scheduling to minimize production shutdown time.