

Hudson Valley Hospital Center - Major Modernization Project Cortlandt Manor, New York

CLIENT/OWNER:

Hudson Valley Hospital Center

SCOPE OF WORK:

HVAC

BUILDING TYPE:

Hospital

PROJECT VALUE:

\$12,000,000

CONTRACT WITH:

Barr & Barr, Inc.



Three new additions, including one four-story building, were added to Hudson Valley Hospital Center over a two-year period. Armistead's work involved a new mechanical plant for cooling and heating. Hydronic systems

were assembled using press-fit fittings or groove fittings. Armistead managed subcontractors for sheet metal, insulation, controls and balancing. The project also included the following:

South Patient Tower has a Basement Mechanical Room consisting of a Boiler Room, Chiller Plant, Fuel Oil Storage Room and Air Handling Units Room.



Boiler Room includes two 200HP Cleaver Brooks Fire-tube Boilers and support equipment. The Steam generated is used for Heat Exchangers and Air Handling Units Preheat Coils.

Chiller Plant includes two 250ton Carrier Centrifugal Chillers.

Fuel Oil Storage Room includes two Fuel Oil Storage Tanks, size 9000gallon and 4000gallon, Fuel Oil Management Panel, and Duplex Pumps sets for Boilers and Emergency Generator.

Air Handling Units Room has three Carrier Indoor Air Handling Units.

South Patient Tower has two Carrier Roof-top Air Handling Units and an EVAPCo Cooling Tower. The **Surgery Center** Roof has two (2) Roof-top Air Handling Units serving each floor. The Automatic Temperature Controls for the HVAC equipment is provided by Carrier Commercial Services through their I-Vu software, with the ATC Computer front-end located at the hospital's Engineering Office.

The Paco Chilled Water Pumps and Hot Water Pumps in the Chiller Plant serve the **South Patient Tower** and the **Surgery Center** Air Handling Units Cooling Coils and VAV Units Reheat Coils. The Pumps are controlled by ABB Variable Frequency Drives. The **South Patient Tower** has 161 VAV Units for air temperature control, 137 of which have reheat coils, and the **Surgery Center** has 25 VAV Units.

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