

Town of New Castle - Chappaqua Train Station  
**Case Study**

### Situation

The Town of New Castle owns the building at the Chappaqua Train Station, where concerns had arisen about the heating system. The system consisted of an oil-fired boiler, which had surpassed its expected lifespan.

Recognizing the opportunity for a sustainable approach, the Town of New Castle reached out to Atlantic Westchester Inc for assistance in designing an innovative heating solution for the building.

### Challenges

- The walls and ceilings have extensive woodwork.
- The installation of exposed spiral-type ductwork was discouraged, as it would detract from the character of the space.
- The work needed to be completed within a publicly occupied area.
- The main tenant of the building was a café, so it was important to minimize any disruption to the tenant's business.



### Solutions

Atlantic Westchester's solution for the project was to install a Daikin Air-Cooled Heat-Pump system with ceiling-suspended indoor units, and conceal the refrigerant piping in the small attic space.

#### Solution Advantages:

- Minimized disruption to the extensive woodwork, requiring only small penetrations for piping and unit support.
- Provides both heating in the winter and cooling in the summer, ensuring year-round comfort for occupants.
- Daikin's Variable Refrigerant Volume (VRV) technology optimizes energy usage by allowing the equipment to use only as much energy as necessary to keep the space comfortable.
- The solution is extremely energy efficient when compared to efficiency of the old oil burning boiler.

*“Our initial hesitation about the indoor units vanished once they were installed and running. I hardly even notice them now; they seamlessly blend into the space above our heads and don't catch the eye.”*

**Walter, Town of New Castle**  
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