

Silver Lake Case Study



Engineered Excellence for Greener Classrooms

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Silver Lake High School Case Study:

New Massachusetts school chooses Change'Air Sophomore Energy Recovery Classroom Air Handlers.

1. Background

When Silver Lake schools tasked Architect Drummey, Roseane, Anderson, Inc. to design their new high school one of the major features was to have an energy efficient design.

Under Massachusetts school construction standards, schools can only be heated and ventilated, no mechanical cooling is permitted. To gain the most efficiency at the lowest cost General Contractors, Brait Builders Corp completed the building in 2006 with 51 Change'Air Sophomore Energy Recovery Classroom Air Handlers with cross flow heat exchangers and a bypass damper for economizer cooling.

2. Project Details

The classroom air handlers were installed in drywall surrounds that acted as pipe chases between floors. The high ceilings allowed for the units to be raised on matching Change'Air supplied sub bases, and the supply was ducted through ceiling diffusers. BACNet control system components were supplied to Change'Air by the controls contractor for factory installation, with programming completed on site.

3. Project Results

The entire project received accolades as a model project completed well within schedule and budget.

4. Summary

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| Change'Air Product: | Sophomore Energy Recovery Classroom Air Handlers |
| School: | Silver Lake High School 260 Pembroke Street, Kingston, MA 02364 |
| Architect: | Drummey, Roseane, Anderson, Inc 141 Herrick Road, Newton Center, MA 02459-2218 |
| General Contractor: | Brait Builders Corp 506 Plain Street, Suite 201, Marshfield, MA 02050 |



CASE HIGHLIGHTS

Change'Air Sophomore Series installed in drywall surroundings that act as pipe chases between floors.



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