

QLEI™

Designed by TROX®

Displacement Induction Ventilation

Proven Indoor Air Quality for Learning Environments
Sample Project References





South Education Center - ID287
Richfield, Minnesota
LEED® Certified



Bridgewater State University
Bridgewater, Massachusetts
LEED® Silver



Hudson Valley Community College
Troy, New York

Project

Engineer

Location

Rep

Primary/Secondary Education

Evergreen Park Elementary	ATSR	Brooklyn Ctr, MN	MMS
Mississippi Elementary	ATSR	Coon Rapids, MN	MMS
Roosevelt Middle School	ATSR	Blaine, MN	MMS
Johnsonville Elementary	ATSR	Blaine, MN	MMS
Morris Bye Elementary	ATSR	Coon Rapids, MN	MMS
University Elementary	ATSR	Blaine, MN	MMS
Centennial Elementary	DLR	Circle Pines, MN	MMS
Riverview Elementary	ATSR	Farmington, MN	MMS
Alice Smith Elementary	EDI-ESG	Hopkins, MN	MMS
Jackson Middle School	ATSR	Champlin, MN	MMS
LO Jacob Elementary	ATSR	Coon Rapids, MN	MMS
PS 32K - Samuel Mills Sprole	Loring	Brooklyn, NY	NYTS
PS 746K	DVL	Brooklyn, NY	NYTS
Glen Lake Elementary	EDI-ESG	Minnetonka, MN	MMS
Coon Rapids Middle School	ATSR	Coon Rapids, MN	MMS
Zimmerman Elementary	JCI	Zimmerman, MN	MMS
South Education Center (ID287)	TSP	Richfield, MN	MMS
Adams Elementary	ATSR	Coon Rapids, MN	MMS
Champlin Elementary	ATSR	Champlin, MN	MMS
Eisenhower Elementary	EDI	Hopkins, MN	MMS
Hopkins West Jr. High	EDI	Hopkins, MN	MMS
Central High School	DLR	St. Paul, MN	MMS
Castle Elementary	DLR	St. Paul, MN	MMS
Minnewaska East Elementary	EEA	Glenwood, MN	MMS
Zumbrota Schools Equipment Package	Strategic Sol.	Zumbrota, MN	MMS
Creighton Prep School	DLR	Omaha, NE	Mech Sales - MW
Foley Schools	ATSR	Foley, MN	MMS
Zumbrota Middle School	Strategic Sol.	Zumbrota, MN	MMS
Lowell Elementary	Strategic Sol.	Brainerd, MN	MMS
Orono Elementary	KFI	Orono, MN	MMS
Orono High School	KFI	Orono, MN	MMS
Eisenhower Community Center	EDI	Hopkins MN	MMS
Orono Intermediate School	KFI	Orono, MN	MMS
Lincoln High School	DLR		MMS
Milaca Schools	Strategic Sol.	Milaca, MN	MMS
Meadowbrook Elementary	EDI	Golden Valley, MN	MMS
Webster Elementary	DLR	St. Paul, MN	MMS
Princeton High School	EDI	Princeton, MN	MMS
PS 101K	Goldman Copeland	Brooklyn, NY	NYTS
PS 398 - Walter Weaver	Loring	Brooklyn, NY	NYTS
Little Falls Middle School	Strategic Sol.	Little Falls, MN	MMS
Little Falls High School	Strategic Sol.	Little Falls, MN	MMS
Bluff View Elementary	Strategic Sol.	Lake City, MN	MMS
Lincoln Middle School	Strategic Sol.	Lake City, MN	MMS
Lincoln High School	Strategic Sol.	Lake City, MN	MMS
Lincoln Little Falls	Strategic Sol.	Little Falls, MN	MMS
Lincoln Lake City	Strategic Sol.	Lake City, MN	MMS
Northport Elementary	KFI	Brooklyn Ctr, MN	MMS
Lincoln Elementary	Design Tree	Alexandria, MN	MMS
Lincoln Park Middle School	LHB	Duluth, MN	MMS
McAuliffe Elementary	Wold A/E	Hastings, MN	MMS
Gatewood Elementary	EDI	Minnetonka, MN	MMS
Hopkins West Jr. High	Dolejs	Minnetonka, MN	MMS
North Education ID-287	TSP	Plymouth, MN	MMS
Burnsville Project A	ATSR	Burnsville, MN	MMS
Longfellow Elementary	ATSR	Rochester, MN	MMS
Washington Elementary	ATSR	Rochester, MN	MMS
Sinclair Lane Elementary School	Brinjac Eng.	Baltimore, MD	Baltimore Trane
Mason City High School	AKF	Mason City, MN	MMS

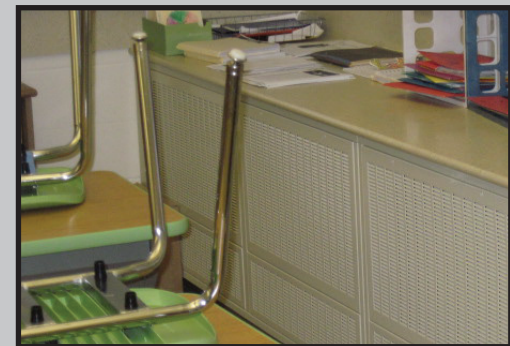
Project	Engineer	Location	Reps
Primary/Secondary Education			
Hastings Middle School	Wold A/E	Hastings, MN	MMS
Rice Lake High School	DLR	Rice Lake, WI	MMS
Dresser Elementary	KFI	Dresser, WI	MMS
Four Rivers Education Center	Strategic Sol.	Channahon, IL	Midwest Applied
Commodore John Barry Elementary	CSA Group	Philadelphia, PA	HC Nye Co.
Kelly Middle School	Bemis Assoc.	Norwich, CT	AERCON Corp
Summit Elementary		Winston-Salem, NC	Carson Solutions
Fremont Middle School	Fanning/Howey	Freemont, OH	ElitAire
Louisville High School	Fanning/Howey	Louisville, OH	ElitAire
Northpoint Elementary	Wold A/E	Blain, MN	MMS
Adams Elementary School	ATSR	Coon Rapids, MN	MMS
St. David's Center	Gilbert	Minnetonka, MN	MMS
Marion Savage Elementary	ATSR	Savage, MN	MMS
Northport Elementary School	KFI	Brooklyn Ctr, MN	MMS
Mason City Schools Phase 5	AKR	Mason City, IA	Setpoint
Lakeview Elementary	KFI	Lakeville, MN	MMS
Sunset Terrace Elementary	Nexus Solutions	Rochester, MN	MMS
Parker Elementary	Wold A/E	Elk River, MN	MMS
Forest Lake High School	ATSR	Forest Lake, MN	MMS
Franklin Elementary	ATSR	Anoka, MN	MMS
Franklin Middle School	MBN & ATSR	Thief River Falls, MN	MMS
New Hope Learning Center	KFI	New Hope, MN	MMS
Folwell Elementary	ATSR	Rochester, MN	MMS
Jefferson Elementary	ATSR	Rochester, MN	MMS
RLCC Elementary	DLR	Plummer, MN	MMS
Oklee Schools	DLR	Oklee, MN	MMS
PS62R Elementary School	AKF	New York, NY	NYTS
Bay View Middle School	ATSR	Green Bay, WI	MMS
Waddell Elementary School	Bemis Assoc.	Manchester, CT	AERCON Corp
Valley View Middle School	Wold A/E	Edina, MN	MMS
Prairie Winds Middle School	Dolejs Assoc.	Mankato, MN	MMS
Tremper High School	Nexus Solns	Kenosha, WI	Masters
Mosinee High & Middle School	Nexus Solns	Mosinee, WI	Masters
Hewitt-Texas School	Nexus Solns	Wausau, WI	Masters
Lewis F. Cole Middle School	Becht Engineering	Fort Lee, NJ	GBS, Ltd.
Hoover Elementary Rochester	Dunham	Rochester, MN	MMS
Beloit Todd Elementary School	Nexus Solns	Beloit, WI	Masters
Beloit Merrill Elementary School	Nexus Solns	Beloit, WI	Masters
Hastings Middle School	Wold A/E	Hastings, MN	MMS
Richfield Dual Language School	Wold A/E	Richfield, MN	MMS
DC Everest Junior High School	Nexus Solns	Schofield, WI	Masters
Kingsland Public Schools	Hallberg Eng	Spring Valley, MN	MMS
Bamber Valley Elementary School	ISG	Rochester, MN	MMS
Maynard Elementary School	ISG	Maynard, IA	Setpoint
Salmon River CSD	F/S Engineering	Covington, NY	Guckian Energy
Stillson Elementary School	ATS&R	Chippewa Falls, WI	MMS
DCE - Weston Elementary School	Nexus Solutions	Schofield, WI	Masters
DCE - Evergreen Elementary School	Nexus Solutions	Rothschild, WI	Masters
CBP - Math & Environmental Science	ATS&R	Champlin, MN	MMS
DCE - Riverside Elementary School	Nexus Solutions	Ringle, WI	Masters
Crooked Lake Elementary School	ATS&R	Andover, MN	MMS
Mora High School	CMTA	Mora, MN	MMS
Otsego Middle School	Wold	Otsego, MN	MMS
Fisher School	CMTA	Fisher, MN	MMS
Franklin Elementary School	EDI-Dolejs	Mankato, MN	MMS
Houston Schools	EDI-Dolejs	Houston, MN	MMS
MacArthur Elementary School	Buro-Happold	Binghamton, NY	Guckian Energy
Southland High School	ISG	Adams, MN	MMS
Christina Huddleston Elementary	DLR Group	Lakeville, MN	MMS



**Summit Elementary School
Winston-Salem, North Carolina**



**Commodore John Barry Elementary
Philadelphia, Pennsylvania**
LEED® Gold



**Kelly Middle School
Norwich, Connecticut**

Project	Engineer	Location	Rep
Higher Education			
Lake Superior College	LHB	Duluth, MN	MMS
University of MN - Morris Building	KFI	Minneapolis, MN	MMS
University of MN - Akerman Hall	KFI	Minneapolis, MN	MMS
St. John's Univ - D'Angelo Center	AKF Group	Queens, NY	NYTS
St. John's Univ- St. John's Hall	AKF Group	Queens, NY	NYTS
Ocean County College	French & Perillo	Lakewood, NJ	GBS, Ltd.
Bridgewater State University - Science Building	Vanderweil	Bridgewater, MA	Trumbull-Campbell
Hudson Valley Community College	Vanderweil	Troy, NY	LJ Early
Massachusetts's Institute of Technology - Math Building	WSP	Boston, MA	Trumbull-Campbell
BSU-Hagg-Sauer ALC	CMTA	Bemidji, MN	MMS



**St. John's University
D'Angelo Hall
Queens, New York**



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SOUTH EDUCATION CENTER - ID 287
Richfield, Minnesota

One of the most important pieces of equipment in the classrooms at South Education Center are the floor mounted displacement ventilation units. These diffusers utilize fresh OA from the DOAS units which induces room air across the hydronic coil and delivers low velocity supply air to the space via a method known as thermal displacement ventilation. This form of air delivery reduces the amount of minimum OA required to the space by increasing the ventilation effectiveness (ASHRAE 62.1) by nearly 50%. This reduction in minimum required OA greatly reduces the cooling and heating energy required to serve the space. By using water in the zone/classroom to condition the air rather than taking the air back to a central station AHU, the amount of heating and cooling required is also greatly reduced. Displacement ventilation also provides fresh clean air directly to the occupied zone, by carrying the contaminants off-gassed from people and objects up to the unoccupied space. Once In the unoccupied space, those contaminants are directly exhausted from the zone.

QLCI displacement ventilators possess a combination cooling and heating coil to condition, and heat or cool the room air in that zone. This provides excellent, independent temperature control of each zone. In addition, there are no moving parts or filters in the unit, which greatly reduces maintenance requirements and costs. QLCI units provide the quietest air delivery method available. With no moving parts or fans placed in the classrooms, they are designed for quiet operation that meets the critical ANSI 12.60 standards (35 dba). These units provide a space with fresh, clean air, low CO2 levels, and replace traditional noisy mechanical equipment with a quiet and low maintenance alternative. Such benefits result in healthier, distraction free learning environment.



The QLCI provided a single product that is under the control of the mechanical contractor while delivering an effective displacement ventilation solution.

- Paul Dvorak PE, LEED AP,
Design Engineer

INTERESTED IN QLCI FOR YOUR PROJECT?