

# QLEI™

Designed by TROX®

## Displacement Induction Ventilation

Proven Indoor Air Quality for Learning Environments  
Sample Project References





<b>Project</b>	<b>Engineer</b>	<b>Location</b>	<b>Reps</b>
<b>Primary/Secondary Education</b>			
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	Norris & Ferraris
Summit Elementary		Winston-Salem, NC	Insight Partners
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	AKF	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
Payne Tech School	French & Perrillo	Newark, NJ	D&B Bldg Solns
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	Norris & Ferraris
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	D&B Bldg Solns
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
<b>Higher Education</b>			
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	D&B Bldg Sons
Bridgewater State University - Science Building	Vanderweil	Bridgewater, MA	HTS-NE
Hudson Valley Community College	Vanderweil	Troy, NY	LJ Early
Massachusetts's Institute of Technology - Math Building	WSP	Boston, MA	HTS-NE
BSU-Hagg-Sauer ALC	CMTA	Bemidji, MN	MMS



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



**QLCI**™ *Designed by TROX*®

**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?**