

THE LONG ISLAND SOUNDER

September 2009



ASHRAE Long Island Chapter, Region 1...Founded in 1957

www.ashraeli.org

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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President's Message

Hello and welcome to another year of ASHRAE for the Long Island Chapter. I trust everyone had a great summer and is ready for the beautiful fall weather ahead. I am very excited to lead this chapter as president and have a fantastic staff behind me. I would first like to congratulate Steve Friedman, P.E., HFDP, LEED AP on his past presidential year. He is a very dedicated, knowledgeable leader and I enjoyed working for him on the Board of Governors. Steve has accepted the position as Region I Refrigeration Chair. This is an appointed position by the Region I DRC. It is a credit to Steve that he has decided to continue serving the engineering community and ASHRAE. I'm sure he will remain active within our chapter, so when you see him please congratulate him on this achievement. Fortunately for our chapter this year, we have four past presidents actively serving the board and committees. I would like to thank Peter Gerazounis, P.E., LEED AP, Steve Friedman, P.E., HFDP, LEED AP, Mike Gerazounis, P.E., LEED AP and John Nally for their continued commitment to the Long Island Chapter. Additionally, please help me welcome Tom Fields, P.E., and Richard Rosner, P.E., to the Board of Governors. Tom is currently an Associate with Lilker Associates and has accepted the position as Student Activities Chairperson. Richard currently works with Nassau Suffolk Engineering & Architecture, PLLC. Rich will be chairing our Membership Promotion Committee, and we are very happy to have him on board. It is encouraging to note that our Board of Governors is diversified with consulting engineers, equipment sales engineers, applications engineers and mechanical contractors.



CHAPTER MONTHLY MEETING

DATE:	Tuesday, September 15, 2009
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	\$35.00
Guest -	\$40.00
Student -	\$15.00

Reservations requested, but not required.

Call (516) 333-7117

Our Board of Governors and committee chairs have just returned from the Region I Chapter Regional Conference (CRC), which was held in Albany, N.Y., August 27th through 29th. Albany is a beautiful area with many attractions. The meeting was held at the Desmond Convention Center.

At the CRC awards ceremony, the Long Island chapter received awards for Membership Promotion, Resource Promotion, the Black Ink award and the Presidential Award of Excellence (PAOE) Star Award Special Citation for significant improvement in membership, attendance, resource promotion, education, chapter programs and technology. Carolyn Arote received the Thomas S. Brown Membership Award - Honorable Mention plaque. She did an excellent job in

Cont'd on Page 3

Long Island Chapter Officers & Committees

ASHRAE 2009/2010 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Steven Giammona, P.E., LEED AP	516.827.4900	516.827.4920	srg@cameronengineering.com
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Secretary	Janeth Costa	631.242.8787	631.242.7084	jcosta@apollohvac.com
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Board of Governors	Thomas Fields, P.E., LEED AP	212.695.1000	212.695.1299	tfields@lilker.com
Board of Governors	Steven Friedman, P.E., HFDP, LEED AP	212.695.1000	212.695.1299	sfriedman@lilker.com

ASHRAE 2009/2010 COMMITTEES

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Historian	Carolyn Arote	516.568.6550	516.568.6575	carote@adehvac.com
Student Activities	Thomas Fields, P.E., LEED AP	212.695.1000	212.695.1299	tfields@lilker.com
Webmaster	Nancy Román	516.568.6509	516.568.6586	nroman@adehvac.com
Nominating	Michael Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	michael.gerazounis@mgepc.net
Reception & Attendance	Anita Singh	516.827.4900	516.827.4920	abs@cameronengineering.com
PR & Engineering Joint Council of LI	Peter Gerazounis, P.E. LEED AP	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net
Golf Outing	Peter Gerazounis, P.E., LEED AP Steven Friedman, P.E., HFDP, LEED AP	212.643.9055 212.695.1000	212.643.0503 212.695.1299	peter.gerazounis@mgepc.net sfriedman@lilker.com

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President Message (Cont'd.)

maintaining membership. I ask for your assistance to encourage, bring or invite your co-workers, employees, clients, etc., to our meetings. The lack of HVAC engineers is quite evident, and we must not lose site of the growth potential within our industry. Janet Costa did a fantastic job raising approximately \$11,000, just missing the financial goal set by the region in a financially challenging time. Thank you all for your donations and continued support of ASHRAE. The Black Ink award is presented for the best chapter newsletter. Our newsletter is something to be extremely proud of and Liset Cordero has done and continues to do an unbelievable job. The PAOE Star Award is a clear indication of Steve's leadership and the entire Board of Governors. Additionally, Brian Simkins, Andy Manos and Nancy Roman continue to work hard and do an incredible job for this chapter. The guest speaker at the CRC was Lynn Bellenger, P.E.. She is the president elect for ASHRAE Society and is from Region I, with Rochester being her home chapter.

I look forward to seeing you all at our September meeting; our programs for this year are exciting, diverse and promise to be very informative. Thank you.

Steven Giammona, P.E., LEED AP
President - Long Island Chapter

Chapter Monthly Meeting - Program for 2009/2010

September 15, 2009 * At Westbury Manor - 1 PDH Dinner Presentation - Chilled Beam Systems MEMBERSHIP PROMOTION NIGHT	February 2010 NATIONAL ENGINEERS WEEK DINNER
October 20, 2009 * At Westbury Manor - 1 PDH Dinner Presentation - Going Green-Reducing Emissions and Improving Fuel Efficiency in Commercial and Industrial Boiler Applications	March 9, 2010 * At Westbury Manor Dinner Presentation - TBD RESOURCE PROMOTION NIGHT
November 10, 2009 * At Westbury Manor Dinner Presentation - TBD ASHRAE DISTINGUISHED LECTURER RESOURCE PROMOTION STUDENT ACTIVITIES NIGHT	April 13, 2010 FIELD TRIP - TBD
December 8, 2009 Holiday Party - Westbury Manor	May 3, 2010 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 12, 2010 * At Westbury Manor Dinner Presentation - TBD MEMBERSHIP PROMOTION NIGHT	May 11, 2010 * At Westbury Manor Dinner Presentation - TBD REFRIGERATION NIGHT
February 9, 2010 * At Westbury Manor JOINT MEETING WITH SMACNA Dinner Presentation - TBD STUDENT ACTIVITIES NIGHT	June 8, 2010 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
February 2010 ASHRAE Winter Meeting	June 2009 - TBD ASHRAE Annual Meeting

August 2009 - Chapter Regional Conference Region I

PAOE FINAL POINTS TOTALS FOR 2008/2009

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
297	645	1,170	1,185	725	1,335	1,410	6,470

September Program

You are cordially invited to our September 2009 Meeting...



Dinner Presentation

"Chilled Beam Systems"

Presented by

William Shultes

NuClimate Air quality Systems

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, SEPTEMBER 15, 2009		
Time:	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Dinner Presentation 8:45 PM – Conclusion	Fee:	\$ 35.00 Member \$ 40.00 Guest \$ 15.00 Student
Location:	WESTBURY MANOR (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. Directions are posted at @ www.ashraeli.org.		
Presentation:	The integrated induced ventilation system is a flexible assembly of components consisting of induced air distribution units, dedicated outdoor air unit, controls, and other HVAC components needed to make a complete system to meet all of the indoor air quality requirements for a healthy and productive building. It is a design concept that first addresses all of the concerns of indoor air quality, energy efficiency, simplified maintenance, reliability, and low noise levels. Basic air side components of this concept consist of a dedicated outdoor unit, supply and exhaust ductwork system, and an Induced Air Distribution System for the individual rooms, all using existing proven technologies. The dedicated outdoor air unit is a 100% outdoor air system that provides efficient air filtration, all of the dehumidification for the building envelope served by that unit, and total energy recovery of the building exhaust air. The DOAS supplies 55 to 66 degree air at 46 or less grains of moisture to the induction units. The ductwork is sized to handle just the ventilation air and exhaust. The induction unit provides the room air circulation and sensible heating or cooling needed.		
About our Speaker:	William Shultes has been involved in the HVAC industry for over 40 years. Bill holds an AAS Degree in the Science of Air conditioning from Hudson Valley community College in Troy, New York. Bill has been consulting with engineers over these years and helped design many energy efficient building systems throughout upstate New York. Bill served as president of the Central New York ASHRAE chapter in 1981 and has been a member of ASHRAE since 1968. He has served on the education committee and refrigeration chairman for the central New York ASHRAE chapter. Bill is currently working at NuClimate Air quality systems as Vice president of Application Sales for their Chilled Beam product line. He is the co-patent holder on the four way blow induction unit and helped design and install the first of it kind Hybrid chilled beam system in the Rome Family YMCA. This successful installation utilized desiccant heat recovery in conjunction with a gas adsorption micro chiller to cool the chilled beams. This installation was awarded a NYSERTA grant for energy conservation.		

History

Hello, I would like to welcome you all to another year with us at the Long Island Chapter of Ashrae. This is my first year as Historian and it seems I have my work cut out for me. I have been told one of the most important things I can do as the historian is transfer "old" paper documents into scanned computerized documents. So...I will be doing this task slowly as the year goes by. I hope to find some interesting information that I can pass along to you about where our chapter has come from and what we have accomplished.



Right now I would like to take a small step back to the year 2004. In the spring of '04 I was asked to step up and become an active member of the chapter. I agreed to do the welcome committee for the monthly meetings. That summer was the first "CRC" I attended representing our chapter. I along with Nancy Roman (current president-elect) spent the CRC hosting the wives of other members showing them around the east end of long island. Our first year just happen to be the year our chapter was hosting the event. Since then I have attended several other CRC meetings, and participated in workshops as necessary.

Well, I just opened up my first folder of "history" and it has become quite clear to me how much time and effort our team put into that event. We had Alan Goerke, Peter Gerazounis, John Nally, Craig Marshall and Frank Morgigno all spend countless hours planning preparing and executing a 3 day conference. I found faxes and emails to the hotel from Alan dating as far back as Sept '02 making sure the facility would be properly booked for our event. Head counts, speaker bookings, food preparation, golf outing, and day excursions were all booked and handled through to the end.

This was the first time I had the chance to meet Lynn Bellenger, P.E., who is now going to be the first Woman President of Ashrae on the National Level. A true inspiration that you can achieve the goals you set for yourself if you put in your best efforts. I guess what I am saying here is, what started out as a small adventure to broaden my work "network" has turned into a life experience. Meeting the same people every month on a local level and others yearly on the Regional level has already been rewarding. There is so much to learn from those around us, and small steps forward can ultimately end up in giant leaps forward. In the up coming months I hope to provide more details about the past, as it is often times the key to our future.

Carolyn Arote
Chapter Historian

Membership

First I would like to thank you all for electing me to the Board of Governors. I have taken on the membership promotion chair position from Carolyn Arote who did a wonderful job and who will be a hard act to follow. Training was provided at the CRC this Aug. so I am ready to go and prepared to answer any of your questions or to get out membership applications to prospective people. We have planned two membership promotion nights for this year but don't wait until then, bring down a prospective member whenever they are available. With the financial crisis the country is in you might be thinking of tightening your belt and dropping some memberships. ASHRAE is the one you should keep as it is where you are kept up on the latest happenings in our field, where important networking is done, your money is working for you as well as promoting important growth of our industry. Let's not allow our existing membership numbers to fall and let's bring in those new members who are important to our good health. We have great programs lined up and an exciting year planned. If you haven't been coming down to the meetings now is the time to return.

See you at the next meeting.

Richard Rosner, P.E.
Membership Chairman

Research Promotion

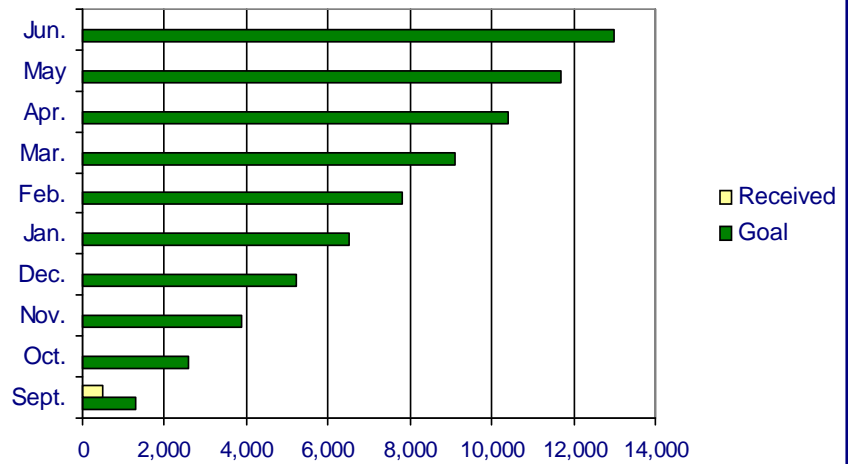
The Region I centralized training is taking place September 12, 2009 in Chicago, IL..

In next months newsletter the resource promotion goal for 2009/2010 will be outlined.

Thanks again for your continued support it is greatly appreciated.

Andrew Manos, LEED AP
Resource Promotion Chair

**Chapter Resource Promotion Goal
For 2009-2010 - TBD**



Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1984	Raymond Combs
1959	Clyde Alston, PE	1985	Edward W. Hoffmann
1960	Sidney Walzer, PE	1986	Jerome T. Norris, PE
1961	Sidney Gayle	1987	Abe Rubenstein, PE
1962	William Kane	1988	Michael O'Rourke
1963	Louis Bloom	1989	Mel Deimel
1964	Milton Maxwell	1990	Robert Rabell
1965	Will Reichenback	1991	Gerald Berman
1966	Joseph Minton, PE	1992	Donald Stahl
1967	Irwin Miller	1993	Ronald Kilcarr
1968	Walter Gilroy	1994	Jerald Griliches
1969	Charles Henry	1995	Walter Stark
1970	William Wright	1996	Joe Marino
1971	Louis Lenz	1997	Norm Maxwell, PE
1972	Ronald Levine	1998	Alan Goerke, PE
1973	Henry Schulman	1999	Frank Morgigno
1974	Myron Goldberg	2000	Michael Gerazounis, PE, LEED AP
1975	John N. Haarhaus	2001	Ray Schmitt
1976	Richard K. Ennis	2002	Steven M. Stein, PE
1977	Kenneth A. Graff	2003	Andrew Braum, PE
1978	Evans Lizardos, PE	2004	Claudio Darras, P.E.
1979	Albert Edelstein	2005	Craig D. Marshall, P.E.
1980	Ralph Butler	2006	John Nally
1981	Robert Rose, PE	2007	Peter Gerazounis, PE, LEED AP
1982	Timothy Murphy, PE	2008	Steven Friedman, PE, HFDP, LEED AP
1983	Leon Taub, PE		

CTTC

HVAC & Infectious Diseases

While the H1N1 virus is getting the headlines, other environmental pollutants such as *E. coli*, norovirus, staph infections (*staphylococcus aureus*), and Methicillin Resistant *Staphylococcus Aureus* (MRSA) are increasingly encountered in our environment and cause significant health problems.

Norovirus, the bacteria identified as causing out-breaks on cruise ships, was to blame for the closing of the Hilton Hotel near Dulles International Airport. Taco John and Taco Bell franchises were closed in several cities around the country due to an outbreak of *E. coli*.

In Hong Kong in 2003, the Amoy Gardens apartment community was one of the most significant “owners” of a SARS outbreak. At least 321 cases were attributed to residents after an individual visited an apartment on March 14 and March 19 and used the toilet on the second visit.

Several scenarios were reviewed as to the cause of the out-break; among them the dispersal of respiratory droplets, cross contamination, roof rats, toilets and bathroom hardware in need of repair, and improper HVAC equipment including poor air exchanges.

The Chinese University of Hong Kong and the University of Hong Kong investigated the incident by using a dynamic modeling and detailed epidemiological study of the location, time and distribution of people infected. The cause was an aerosolized plume arising from the toilet as a result of im-proper ventilation. The infected feces or urine, aerosolized by the toilet flushing spray, was drawn into the defective ventilation system, exposing all the residents of the apartment community.

No longer confined to hospital or health-care settings, air-borne tuberculosis, chicken pox, and varicella are on the rise, and are now considered the new environmental toxins in public buildings. To lower risk, facilities of all occupancies need to safeguard their patients, customers, and/or employees while minimizing their liability.

Burden of Proof

To state a claim for negligence based upon the contraction of an illness or infection (caused by an environmental toxin), the plaintiff must prove that:

The defendant was aware or should have been aware of the infectious source within the premises; The defendant committed a negligent act or omission, which exposed the plaintiff to the infection; and The plaintiff suffered an incident or illness due to the defendant's negligence.

Exercising Due Diligence

HVAC systems of commercial buildings are not typically engineered to effectively remove biological contaminants such as airborne bacteria and viruses. ASHRAE's Standard 62.1 mandates use of an air filter with a minimum efficiency reporting value (MERV) not less than 6. This is primarily to enhance HVAC mechanical equipment performance, as well as protect it from contamination from dust particles, lint, etc.

CTTC (Cont'd. from Page 7)

Most commercial buildings and facility managers use filters ranging from MERV 5 to MERV 8. This provides building occupants minimal protection from biological contaminants as this level of filtration does not effectively remove smaller particles from the air. Only MERV ratings of 13 or higher remove contaminants such as airborne MRSA, TB, etc., with a layer of due diligence added. Enhancing filtration efficiency will improve filtration performance to increase removal of particulate matter from the air.

Baseline air quality sampling of high touch areas is a prudent measure to establish due diligence in the advent of a sentinel event. Sampling, using the new DNA panel for infectious diseases, provides a preliminary overview of susceptibility and creates a timestamp that can impact legal review.

Maintenance and Products

Many problems relating to the spread of biological contaminants can be traced to building operation. Frequently, filters are improperly installed and maintained, which results in the all too common filter bypass. This in itself reduces filtration efficiency. Additionally, cleaning products should be pathogen specific, EPA registered for the desired outcome, and implemented into an aggressive risk management and high touch hygiene program that is exercised routinely.

Careful selection of products such as hardware with a silver-based finish and powder coated is a passive measure to increase facility cleanliness. Addressing dust collection points by using concealed door openers and low energy automatic openers hidden in the door or floor is another example of a passive measure, yet contributes significantly to the reduction of labor, as well as airborne particles.

Design

Many commercial buildings have outdoor air intakes located at or near ground level. Because of the air intake's proximity to potential contamination sources such as streets, alleys, parking lots, loading docks, and retention ponds, and naturally occurring threats, the risk of occupant exposure is increased. All managers should construct a suspect footprint for their buildings and color code it red, green and yellow to ascertain areas of little to significant concern. Additional measures to consider:

Commissioning: ensuring a building's ventilation system is operating in line with design intent; and Isolating high suspect spaces: Maintaining common areas considered vulnerable to internal releases such as lobbies and auditoriums, at a lower pressure relative to adjacent spaces to limit potential spread of a contaminant beyond the immediate release area.

Owners or managers should be mindful of the ways to limit liability on their premises for exposure to environmental toxins. Any time a possible threat exists, owners should act quickly to detect, identify, and remove the environmental toxin and its source. The owner also must inform building occupants of the toxin and provide any necessary warnings.

Brian Simkins, LEED AP

Chapter Technology Transfer Committee Chair

Article by: Marlene Linders, June 2009 ASHRAE Journal 55

Student Activities

Student Activities

School is back in session we have high hopes for this year. We hope to continue to introduce ASHRAE and engineering to as many students as possible. Our chapter will be concentrating not just on college students, but will be reaching out to K-12 students as well. I invite all our members to consider volunteering some time to student outreach this year. This can be as simple as visiting your child's school to discuss our field. Long Island has a storied history in engineering, and I hope that we can help to maintain that prominence by encouraging our youth to pursue HVAC&R careers.

Charles Lesniak with Lizardos Engineering Associates is assisting with Student Activities this year, and we appreciate his help. We plan on having two Student Activities Nights, one in November and one in February. Let's get started on this early to get as many new faces at our meeting as possible. We have an excellent lecture schedule this year so I expect a great turn out.



Student Membership

Student Members are sponsored by full-grade Members or Associate Members. The student must be studying or have an interest in an HVAC&R industry-related field. A student eligible for ASHRAE student membership is a person matriculated in an approved course of study in a university, college, junior college, or technical institute, who is being educated in the arts and sciences covered by the Society's objectives.

The Student Zone

The Student Zone web page offers valuable career and educational resources for ASHRAE Student Members. Please visit: <http://www.ashrae.org/students/> for more information on all the Student ASHRAE activities and opportunities.

Thomas Fields, PE, LEED AP
Student Activities Committee Chair

CRC 2009 Re-Cap

The Long Island Chapter received the following Awards:

- Immediate past President, **Steven Friedman, PE, HFDP, LEED AP** received the Presidential Award of Excellence for outstanding performance together with the Long Island Chapter Board of Governors
- **Carolyn Arote** received outstanding performance for Ashrae Membership Promotion
- **Janeth Costa** received outstanding performance for Ashrae Resource Promotion
- **Liset Pena** received the Ashrae Region One Black Ink Award for best newsletter.



**Long Island Chapter BOG Members pictured with incoming 2010/2011
ASHRAE President Ms. Lynn Bellenger, P.E.**

**(left to right) Steven Giammona, P.E., LEED AP, Thomas Fields, P.E., LEED AP,
Steven Friedman, P.E., HFDP, LEED AP, Lynn Bellenger, P.E.,
Brian Simkins, LEED AP, Andy Manos, LEED AP, Carolyn Arote,
Janeth Costa and Nancy Román**

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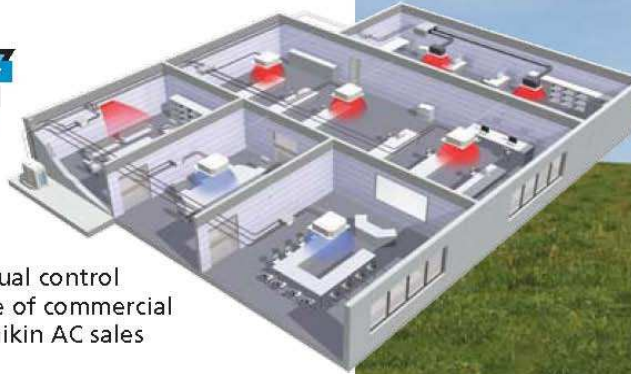
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The balance of design with responsibility. At Daikin, we work to achieve a remarkable balance ...providing air conditioning solutions that are environmentally conscious. We commend the efforts of ASHRAE for designing their new energy efficient and sustainable corporate headquarters. Together we set an example of social responsibility and commit to the preservation of resources for current and future generations. **Daikin AC. Try a better perspective.**



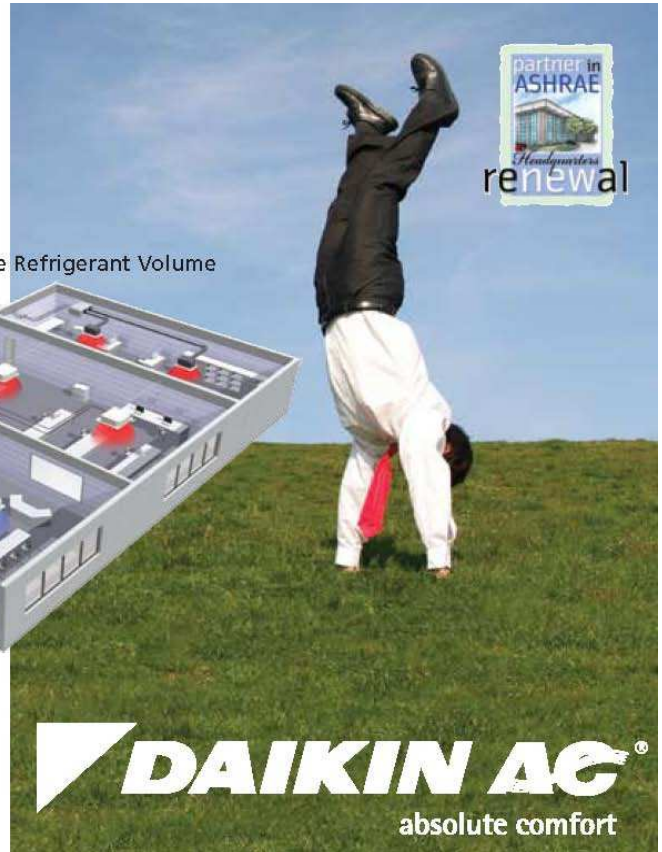
Daikin's VRV – Variable Refrigerant Volume



Daikin's VRV provides individual control and comfort for a wide range of commercial projects. Contact our local Daikin AC sales engineers in New York City:

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